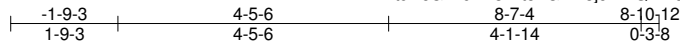


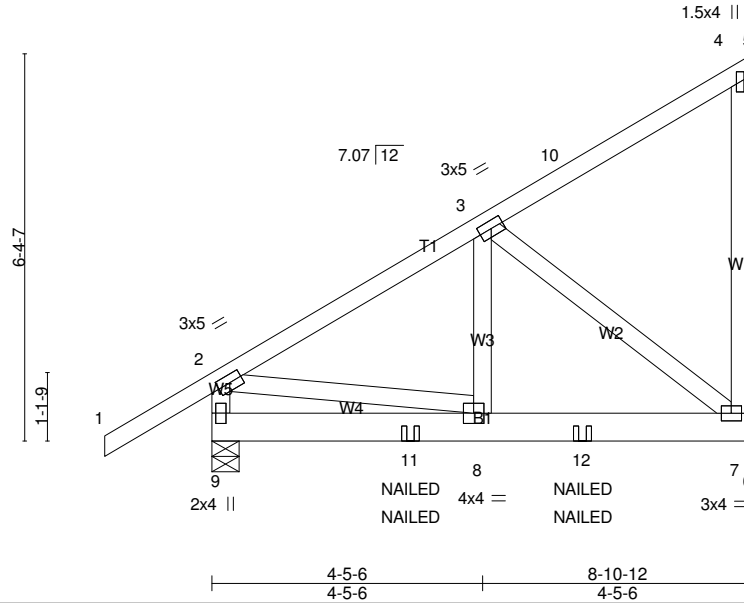
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	CJ01	Diagonal Hip Girder	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:00 2021 Page 1  
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Scale = 1:37.9



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) 0.01 7-8 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.23	Vert(CT) -0.01 7-8 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP	Horz(CT) -0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 66 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3

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

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

**REACTIONS.** (lb/size) 9=519/0-5-5 (min. 0-1-8), 7=397/Mechanical  
 Max Horz 9=224(LC 16)  
 Max Uplift 9=-67(LC 16), 7=-180(LC 16)  
 Max Grav 9=605(LC 2), 7=462(LC 52)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-9=-572/143, 2-3=-454/19  
 BOT CHORD 9-11=-260/209, 8-11=-260/209, 8-12=-162/338, 7-12=-162/338  
 WEBS 2-8=0/323, 3-7=-431/207

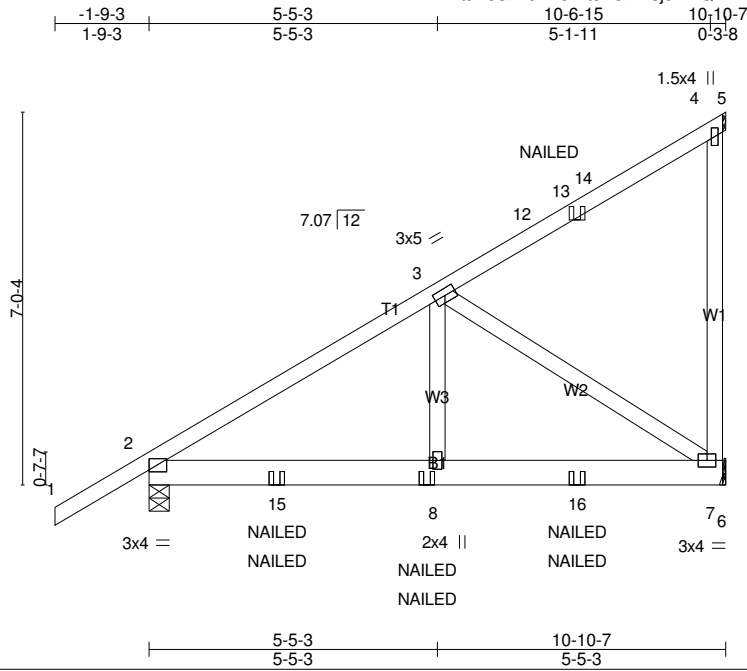
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 7=180.
  - 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - 11) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-66, 2-5=-66, 6-9=-20  
 Concentrated Loads (lb)  
 Vert: 11=1(F=1, B=1) 12=-37(F=-19, B=-19)

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	CJ02	Diagonal Hip Girder	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:01 2021 Page 1  
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Scale = 1:43.4

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.77	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.31	Vert(LL) 0.02 8-11 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.55	Vert(CT) -0.03 7-8 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 70 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 5-9-2 oc purlins.  
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 2=682/0-4-9 (min. 0-1-8), 7=640/Mechanical  
Max Horz 2=265(LC 16)  
Max Uplift 2=-154(LC 16), 7=-204(LC 16)  
Max Grav 2=793(LC 2), 7=704(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-815/87  
BOT CHORD 2-15=-246/629, 8-15=-246/629, 8-16=-246/629, 7-16=-246/629  
WEBS 3-8=0/328, 3-7=-752/293

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=154, 7=204.
  - 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - 11) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-66, 6-9=-20  
Concentrated Loads (lb)  
Vert: 8=-37(F=-18, B=-18) 13=-92(B) 15=-41(F=-20, B=-20) 16=-99(F=-49, B=-49)

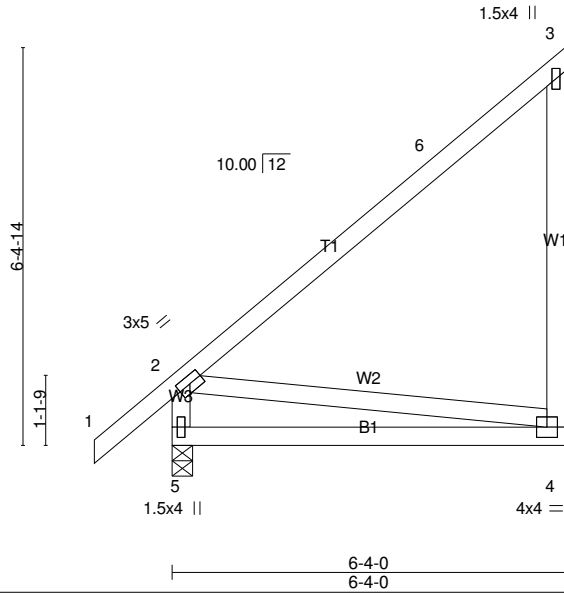
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J01	Jack-Closed	7	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:02 2021 Page 1  
ID:tuKcGkndK28Ert51GwX8jcz2kQv-TB9N9gSilhaFzJzpBAfmskSeOioyRlb7ut2QWJUPz2j\_N

-1-3-0 | 6-0-8 | 6-4-0  
1-3-0 | 6-0-8 | 0-3-8

Scale = 1:37.1



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.91	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.08 4-5 >907 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Vert(CT) -0.16 4-5 >454 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 43 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

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

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

**REACTIONS.** (lb/size) 5=363/0-4-0 (min. 0-1-8), 4=250/Mechanical  
Max Horz 5=242(LC 13)  
Max Uplift 5=-8(LC 16), 4=-110(LC 16)  
Max Grav 5=427(LC 2), 4=329(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-5=-366/159, 3-4=-287/231  
BOT CHORD 4-5=-418/380  
WEBS 2-4=-300/348

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=110.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

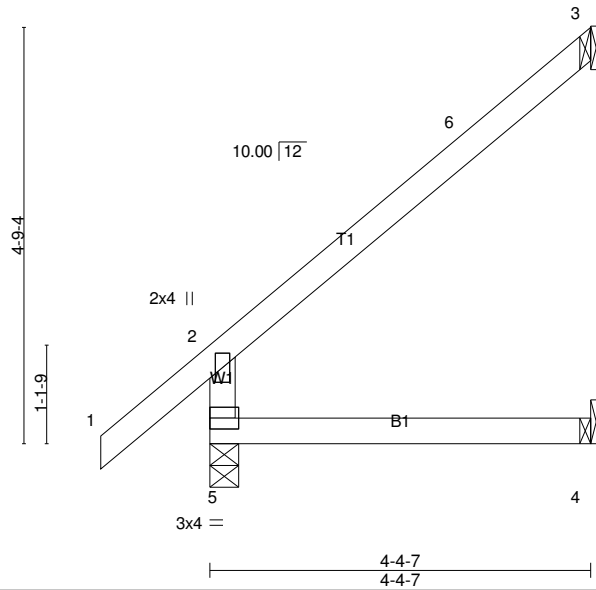
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J02	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:02 2021 Page 1  
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-1-3-0	4-0-15	4-4-7
1-3-0	4-0-15	0-3-8

Scale = 1:26.4



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.28	Vert(LL) 0.03 4-5 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.04 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Horz(CT) -0.04 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 19 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 5=287/0-4-0 (min. 0-1-8), 3=118/Mechanical, 4=46/Mechanical  
Max Horz 5=155(LC 16)  
Max Uplift 3=108(LC 16), 4=-4(LC 16)  
Max Grav 5=338(LC 2), 3=151(LC 30), 4=79(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-5=-303/80

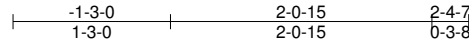
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=108.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

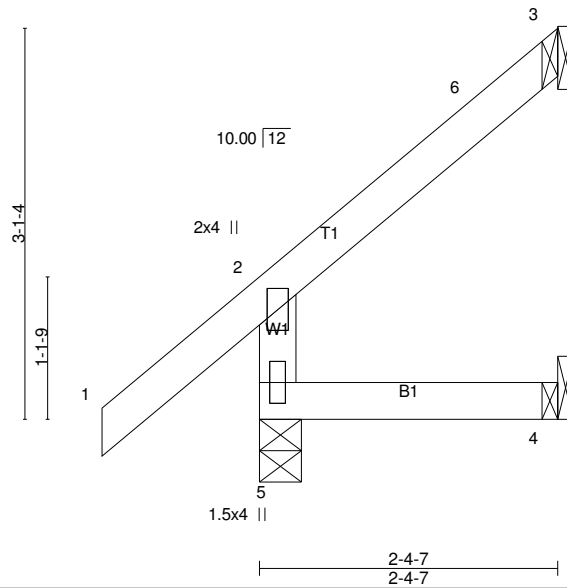
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J03	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:18.3



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) 0.00 4-5 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 12 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-4-7 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 5=215/0-4-0 (min. 0-1-8), 3=48/Mechanical, 4=16/Mechanical  
 Max Horz 5=91(LC 16)  
 Max Uplift 3=-58(LC 16), 4=-9(LC 16)  
 Max Grav 5=256(LC 2), 3=67(LC 30), 4=39(LC 7)

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

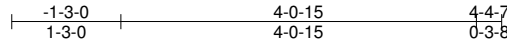
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

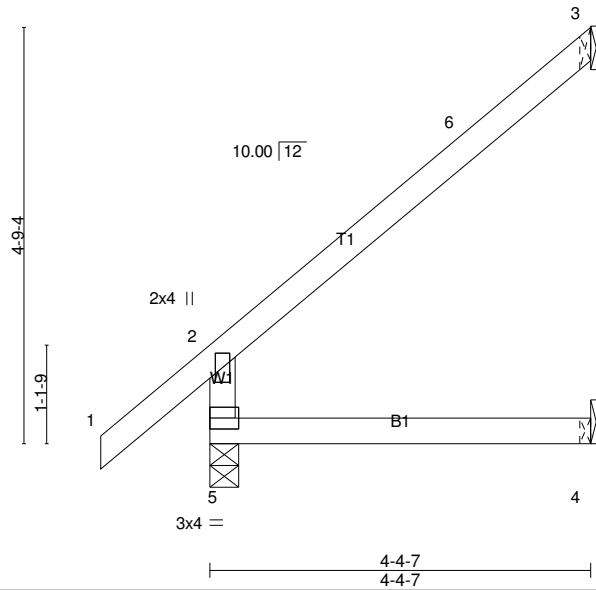
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J04	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:03 2021 Page 1  
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Scale = 1:26.4



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.28	Vert(LL) 0.03 4-5 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.04 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Horz(CT) -0.04 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 19 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 5=287/0-4-0 (min. 0-1-8), 3=118/Mechanical, 4=46/Mechanical  
Max Horz 5=155(LC 16)  
Max Uplift 3=108(LC 16), 4=-4(LC 16)  
Max Grav 5=338(LC 2), 3=151(LC 30), 4=79(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-5=-303/80

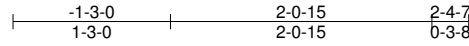
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=108.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

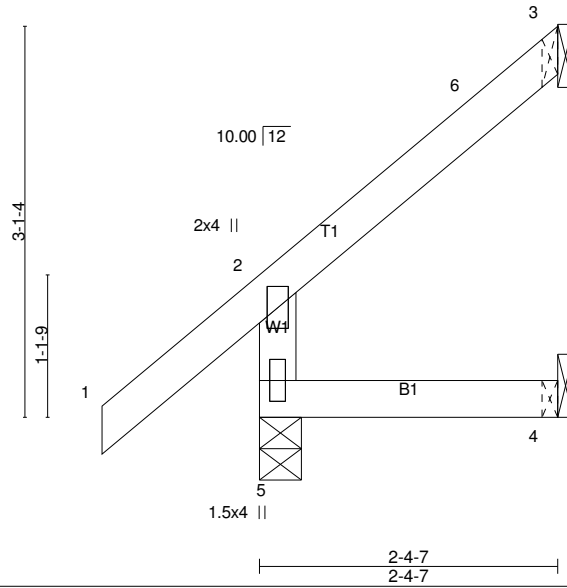
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J05	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:03 2021 Page 1  
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Scale = 1:18.3



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) 0.00 4-5 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 4-5 >999 240		
BCDL 0.0 *	Rep Stress Incr YES	Matrix-MR	Horz(CT) -0.01 3 n/a n/a		
BCLL 0.0	Code IRC2015/TPI2014			Weight: 12 lb	FT = 20%
BCDL 10.0					

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-4-7 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=215/0-4-0 (min. 0-1-8), 3=48/Mechanical, 4=16/Mechanical  
 Max Horz 5=91(LC 16)  
 Max Uplift 3=-58(LC 16), 4=-9(LC 16)  
 Max Grav 5=256(LC 2), 3=67(LC 30), 4=39(LC 7)

**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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J06	Jack-Closed	5	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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-1-3-0 | 7-5-4 | 7-8-12  
 1-3-0 | 7-5-4 | 0-3-8

Scale = 1:41.1

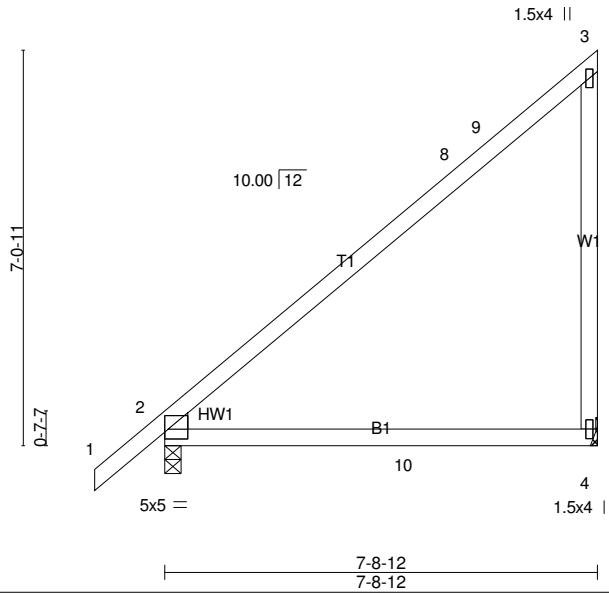


Plate Offsets (X,Y)-- [2:Edge,0-2-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.87	Vert(LL) 0.20	4-7	>450	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.38	Vert(CT) -0.35	4-7	>259	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT) 0.05	2	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 39 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP DSS  
 WEBS 2x4 SP No.3  
 WEDGE  
 Left: 2x4 SP No.3

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

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

**REACTIONS.** (lb/size) 4=320/Mechanical, 2=416/0-3-8 (min. 0-1-8)  
 Max Horz 2=263(LC 15)  
 Max Uplift 4=-99(LC 13), 2=-26(LC 16)  
 Max Grav 4=482(LC 30), 2=487(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-8=-276/231, 3-9=-228/263, 3-4=-320/243

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

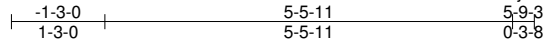
**LOAD CASE(S)** Standard



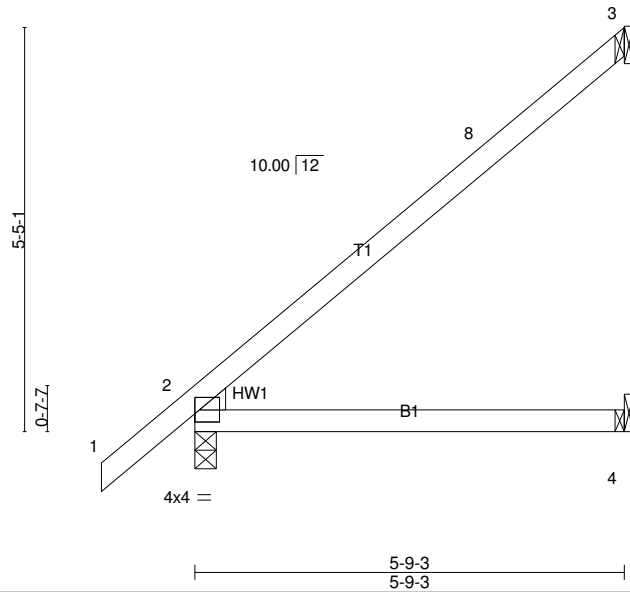
Job 21-3743-A	Truss J07	Truss Type Jack-Closed	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:05 2021 Page 1  
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Scale = 1:30.9



<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 (roof) 30.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) 0.09 4-7 >771 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.13 4-7 >531 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.03 3 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MP			
BCDL 10.0				Weight: 23 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEDGE  
Left: 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 5-9-3 oc purlins.  
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 3=161/Mechanical, 2=338/0-3-8 (min. 0-1-8), 4=76/Mechanical  
Max Horz 2=218(LC 16)  
Max Uplift 3=-125(LC 16)  
Max Grav 3=200(LC 30), 2=396(LC 2), 4=107(LC 7)

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

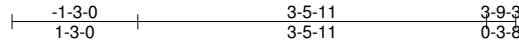
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=125.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

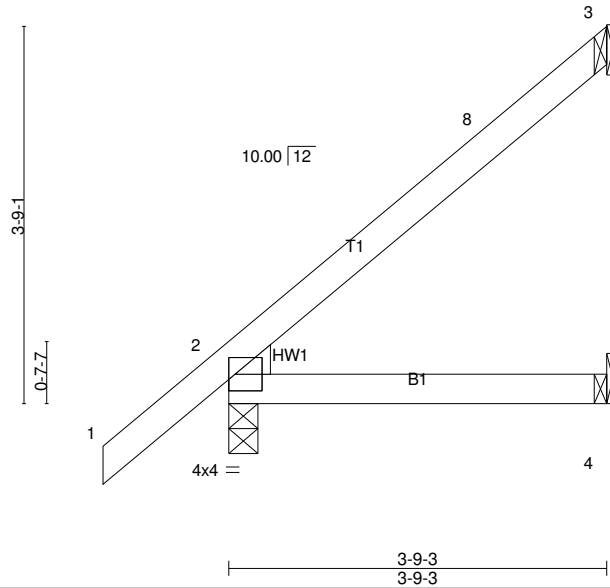
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J08	Jack-Closed	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:05 2021 Page 1  
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Scale = 1:22.9



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) 0.02 4-7 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.02 4-7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.01 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 16 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEDGE  
Left: 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 3-9-3 oc purlins.  
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 3=99/Mechanical, 2=256/0-3-8 (min. 0-1-8), 4=46/Mechanical  
Max Horz 2=154(LC 16)  
Max Uplift 3=-79(LC 16), 2=-1(LC 16)  
Max Grav 3=125(LC 30), 2=302(LC 2), 4=68(LC 7)

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

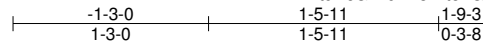
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

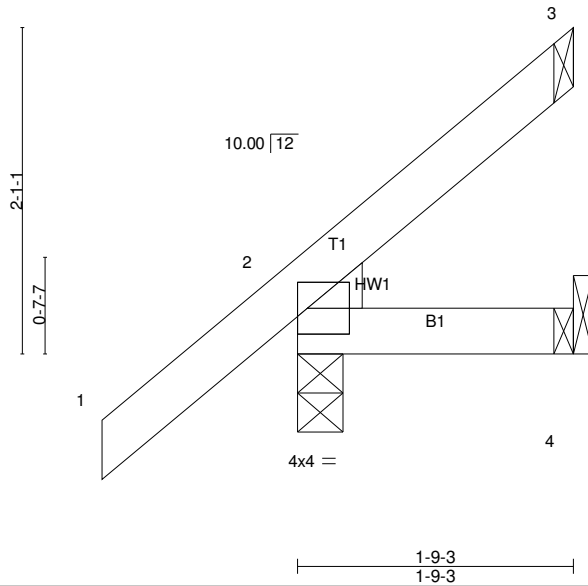
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J09	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:14.7



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) 0.00 7 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 9 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEDGE  
 Left: 2x4 SP No.3

**BRACING-**  
 TOP CHORD  
 BOT CHORD

Structural wood sheathing directly applied or 1-9-3 oc purlins.  
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 2=188/0-3-8 (min. 0-1-8), 4=47/Mechanical  
 Max Horz 2=85(LC 16)  
 Max Uplift 2=-22(LC 16), 4=-33(LC 13)  
 Max Grav 2=223(LC 2), 4=54(LC 30)

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

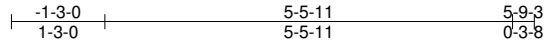
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

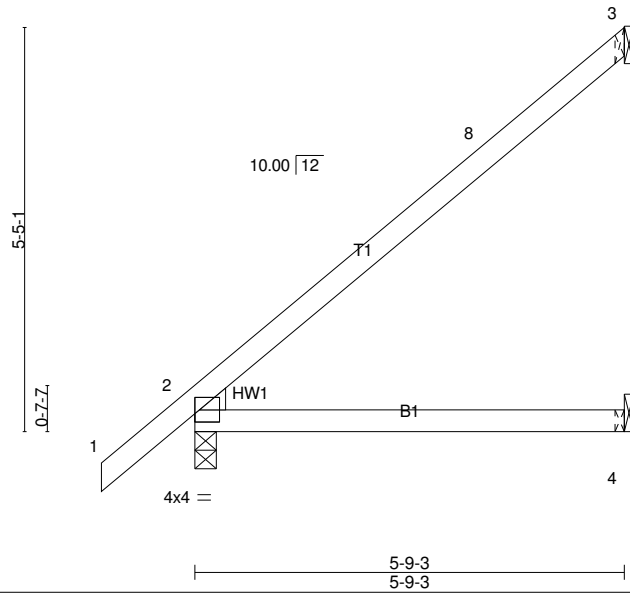
Job 21-3743-A	Truss J10	Truss Type Jack-Closed	Qty 2	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:06 2021 Page 1  
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Scale = 1:30.9



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.46	Vert(LL) 0.09 4-7 >771 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.13 4-7 >531 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.03 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 23 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEDGE  
Left: 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 5-9-3 oc purlins.  
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 3=161/Mechanical, 2=338/0-3-8 (min. 0-1-8), 4=76/Mechanical  
Max Horz 2=218(LC 16)  
Max Uplift 3=-125(LC 16)  
Max Grav 3=200(LC 30), 2=396(LC 2), 4=107(LC 7)

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

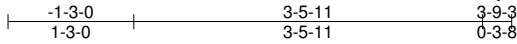
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=125.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

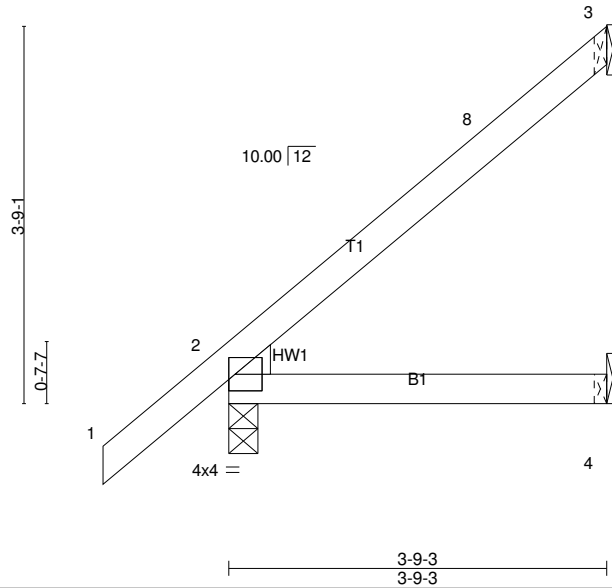
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J11	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:07 2021 Page 1  
 ID:tuKcGkndK28Ert51GwX8jcz2kQv-q9zGCNWQW7uFPki9zCM1RVLQDpk2Qvhd0K8H9cz2j\_I



Scale = 1:22.9



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) 0.02 4-7 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.02 4-7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.01 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 16 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEDGE  
 Left: 2x4 SP No.3

**BRACING-**  
 TOP CHORD  
 BOT CHORD

Structural wood sheathing directly applied or 3-9-3 oc purlins.  
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 3=99/Mechanical, 2=256/0-3-8 (min. 0-1-8), 4=46/Mechanical  
 Max Horz 2=154(LC 16)  
 Max Uplift 3=-79(LC 16), 2=-1(LC 16)  
 Max Grav 3=125(LC 30), 2=302(LC 2), 4=68(LC 7)

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

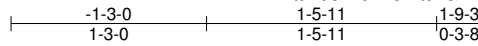
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

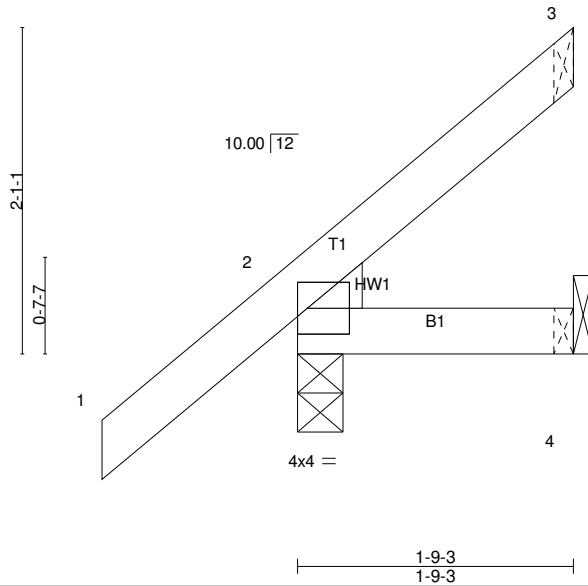
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J12	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:07 2021 Page 1  
 ID:tuKcGkndK28Ert51GwX8jcz2kQv-q9zGCNWQW7uFPki9zCM1RVLREplyQvhd0K8H9cz2j\_1



Scale = 1:14.7



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) 0.00 7 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 9 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEDGE  
 Left: 2x4 SP No.3

**BRACING-**  
 TOP CHORD  
 BOT CHORD

Structural wood sheathing directly applied or 1-9-3 oc purlins.  
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 2=188/0-3-8 (min. 0-1-8), 4=47/Mechanical  
 Max Horz 2=85(LC 16)  
 Max Uplift 2=-22(LC 16), 4=-33(LC 13)  
 Max Grav 2=223(LC 2), 4=54(LC 30)

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

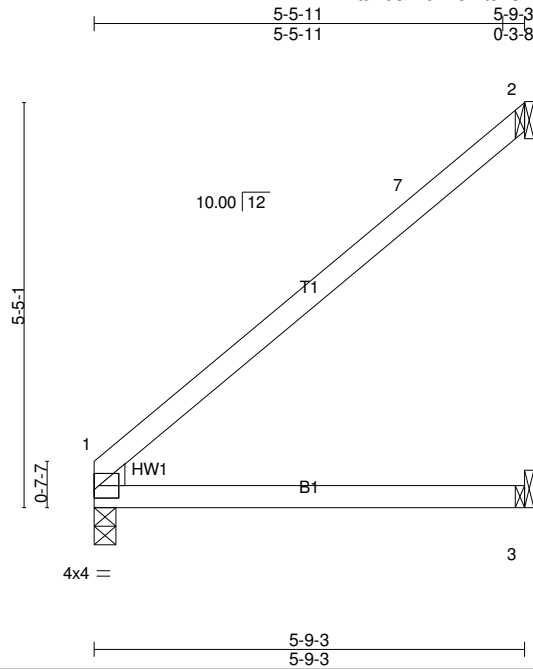
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J13	Jack-Closed	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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 ID:tuKcGkndK28Ert51GwX8jcz2kQv-q9zGCNWWQW7uFPki9zCM1RVLJKpeiQvhd0K8H9cz2j\_I



Scale = 1:30.9

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.53	Vert(LL) 0.10 3-6 >699 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.15 3-6 >470 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.03 1 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 21 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEDGE  
 Left: 2x4 SP No.3

**BRACING-**  
 TOP CHORD  
 BOT CHORD

Structural wood sheathing directly applied or 5-9-3 oc purlins.  
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 2=165/Mechanical, 3=81/Mechanical, 1=246/0-3-8 (min. 0-1-8)  
 Max Horz 1=184(LC 16)  
 Max Uplift2=-127(LC 16), 3=-1(LC 16)  
 Max Grav2=205(LC 29), 3=109(LC 7), 1=285(LC 2)

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

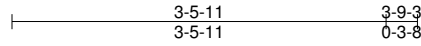
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=127.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

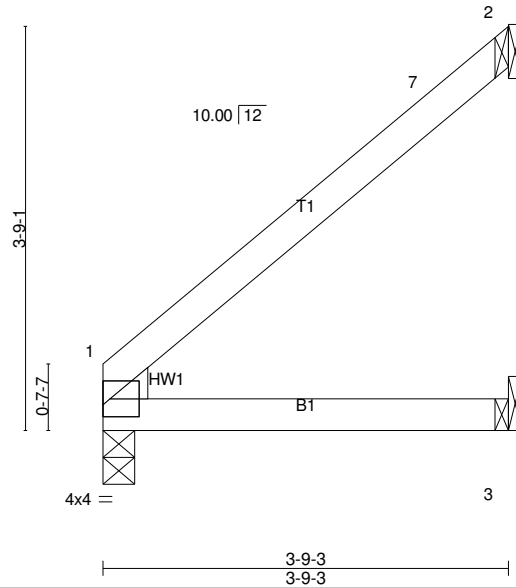
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J14	Jack-Closed	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:08 2021 Page 1  
ID:tuKcGkndK28Ert51GwX8jcz2kQv-ILXeQjW3HQ061uHLXvtG\_jtbWD3n9MwmF\_tqh2z2j\_H



Scale = 1:21.4



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.22	Vert(LL) 0.02 3-6 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.03 3-6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.01 1 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 14 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEDGE  
Left: 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 3-9-3 oc purlins.  
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 2=106/Mechanical, 3=54/Mechanical, 1=160/0-3-8 (min. 0-1-8)  
Max Horz 1=119(LC 16)  
Max Uplift2=-82(LC 16), 3=-4(LC 16)  
Max Grav2=132(LC 29), 3=70(LC 7), 1=185(LC 2)

**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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

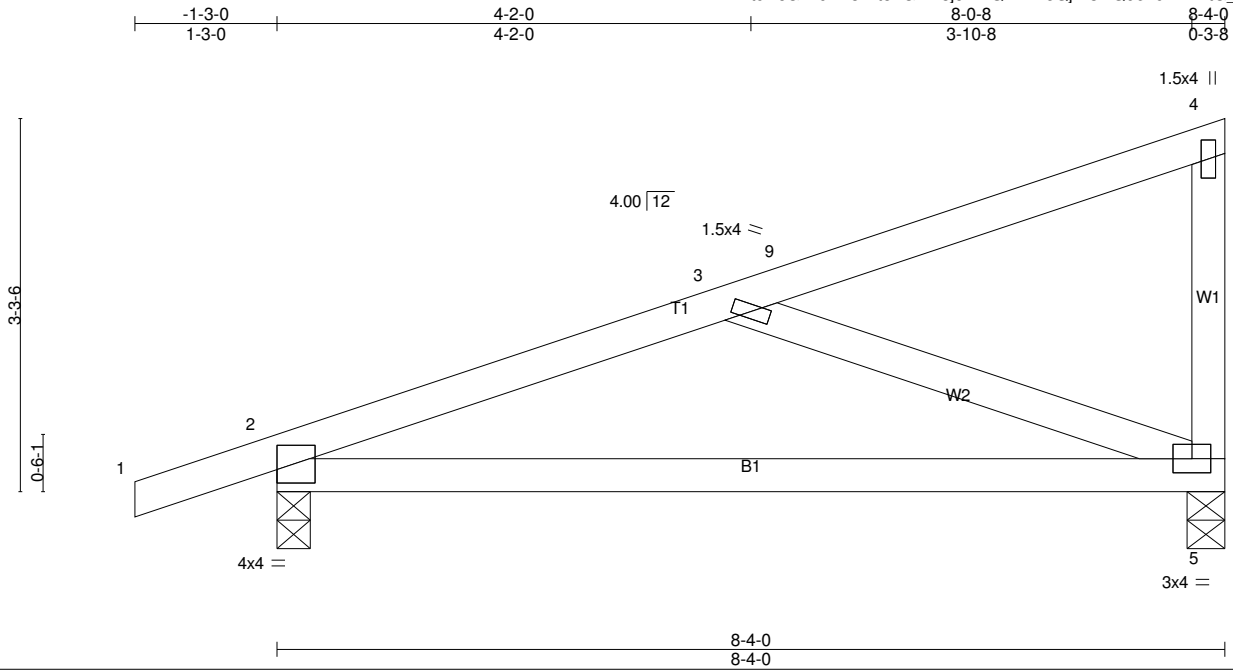


Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	M01	Monopitch	6	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:08 2021 Page 1  
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Scale = 1:20.3



<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 (roof) 30.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.14 5-8 >701 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.28 5-8 >353 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.24	Horz(CT) 0.01 2 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MP			
BCDL 10.0				Weight: 38 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

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

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

**REACTIONS.** (lb/size) 2=442/0-3-8 (min. 0-1-8), 5=347/0-4-0 (min. 0-1-8)  
 Max Horz 2=129(LC 15)  
 Max Uplift 2=104(LC 12), 5=68(LC 16)  
 Max Grav 2=517(LC 2), 5=402(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=623/226  
 BOT CHORD 2-5=-300/568  
 WEBS 3-5=-603/282

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=104.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	PB01	Piggyback	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:09 2021 Page 1  
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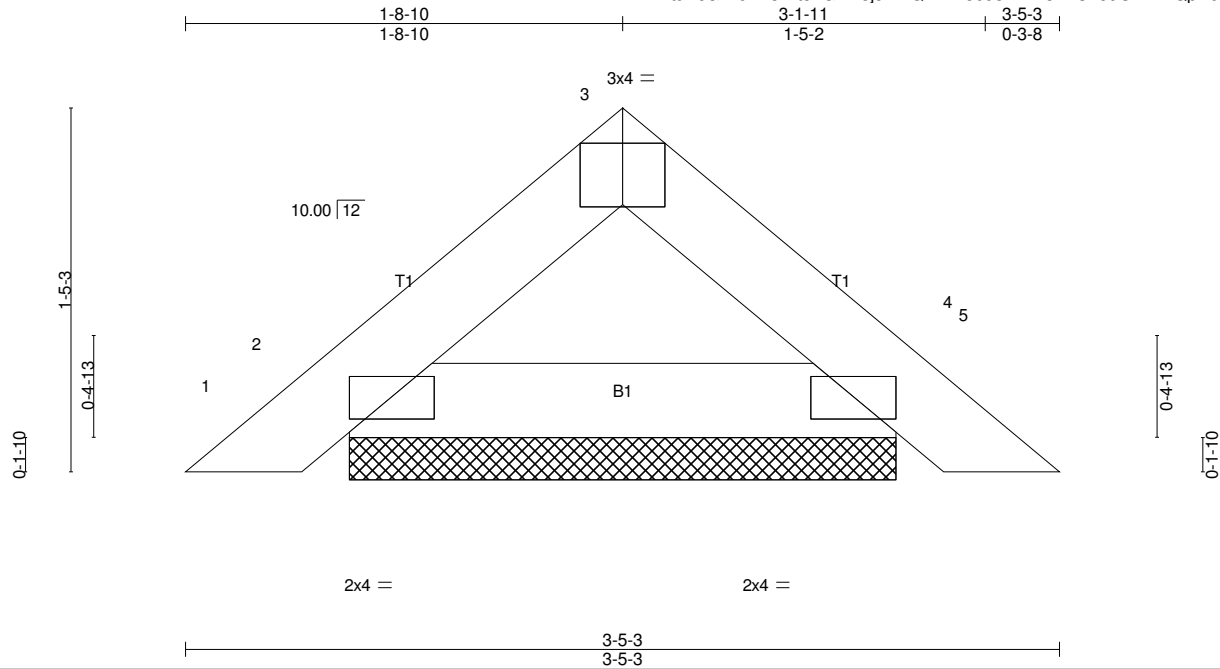


Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [3:0-2-0,Edge], [4:0-2-1,0-1-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOL	1.15	TC 0.02	Vert(LL)	0.00	4	n/r	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	0.00	4	n/r		
TCDL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Code IRC2015/TPI2014		Matrix-P					Weight: 10 lb	FT = 20%
BCDL 10.0									

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-5-3 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 2=120/2-1-12 (min. 0-1-8), 4=120/2-1-12 (min. 0-1-8)  
Max Horz2=31(LC 15)  
Max Uplift2=17(LC 16), 4=17(LC 17)  
Max Grav2=141(LC 2), 4=141(LC 2)

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

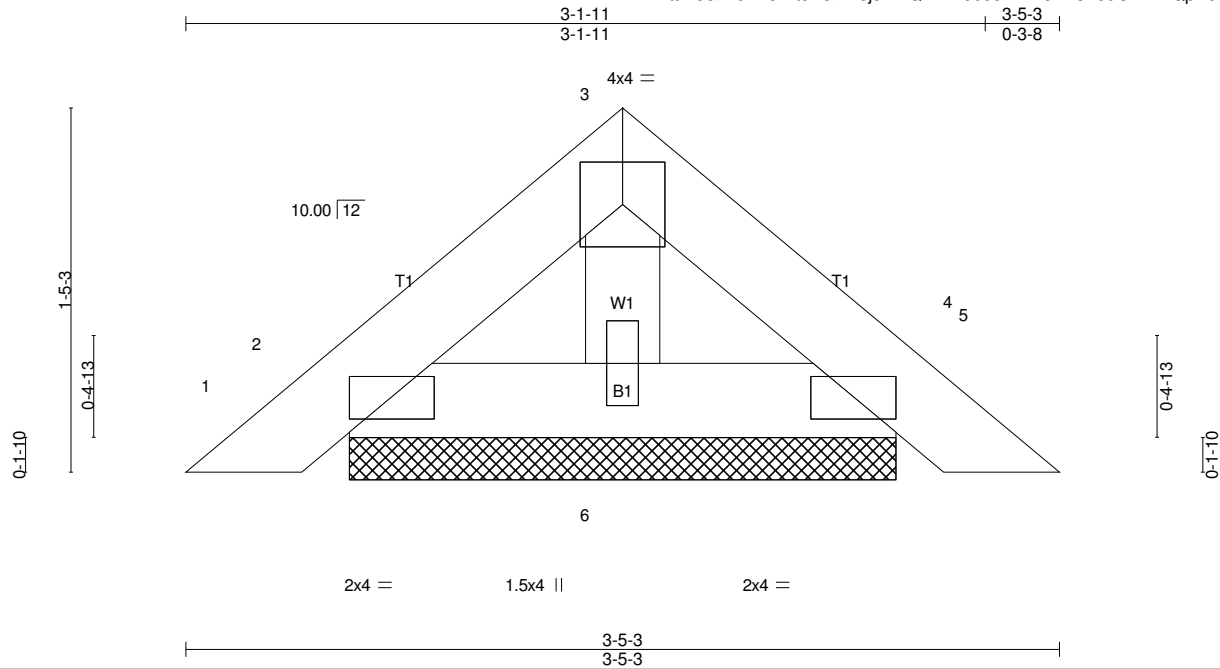
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	PB02	Piggyback	7	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:09 2021 Page 1  
ID:tuKcGkndK28Ert51GwX8jcz2kQv-mX50d3Xh2k8zf2sX5dOVVwQpwdSDuo0wUedNEVz2\_G



Scale = 1:9.1

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.02	Vert(LL)	0.00	4	n/r	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.01	Vert(CT)	0.00	4	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 11 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-5-3 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 2=85/2-1-12 (min. 0-1-8), 4=85/2-1-12 (min. 0-1-8), 6=71/2-1-12 (min. 0-1-8)  
Max Horz 2=31(LC 15)  
Max Uplift 2=-22(LC 16), 4=-25(LC 17)  
Max Grav 2=101(LC 2), 4=101(LC 2), 6=80(LC 2)

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

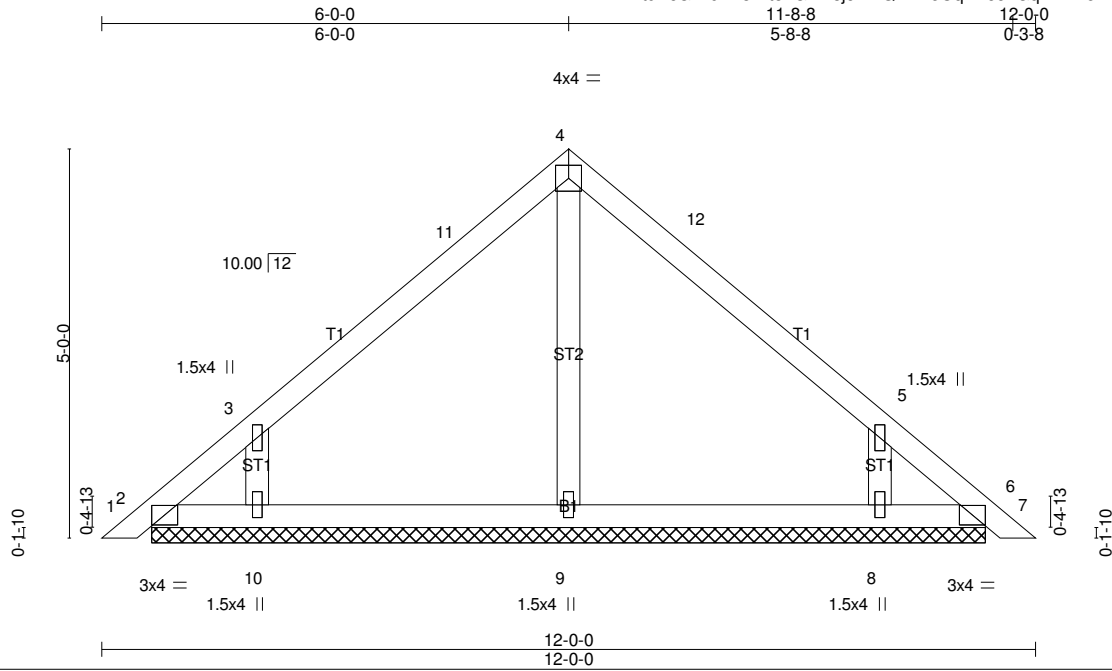
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	PB03	Piggyback	16	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:10 2021 Page 1  
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Scale = 1:29.6

Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [6:0-2-1,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.25	Vert(LL)	-0.00	6	n/r	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	-0.00	7	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Horz(CT)	0.00	6	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 48 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 OTHERS 2x4 SP No.3

**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 10-8-9.  
 (lb) - Max Horz 2=-119(LC 14)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-166(LC 16), 8=-165(LC 17)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=296(LC 2), 10=374(LC 30), 8=373(LC 31)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 3-10=-322/215, 5-8=-321/214

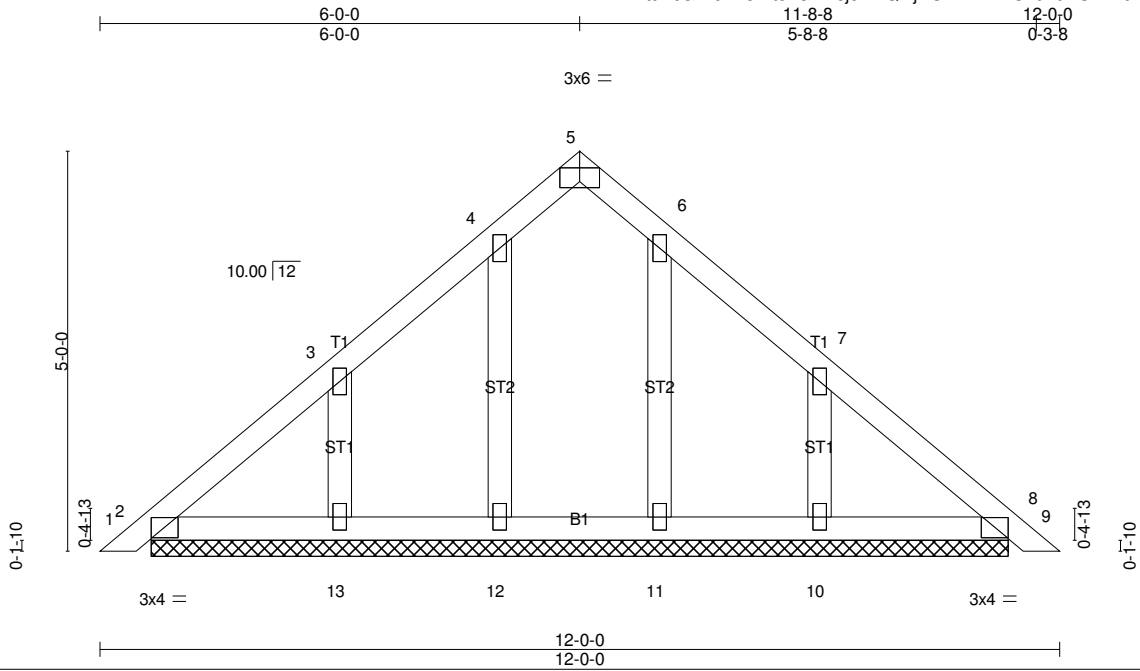
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=166, 8=165.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	PB04GE	GABLE	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:11 2021 Page 1  
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Scale = 1:28.8

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.08	Vert(LL)	0.00	8	n/r	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	0.00	9	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	8	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 55 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**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 10-8-9.  
(lb) - Max Horz 2=119(LC 15)  
Max Uplift All uplift 100 lb or less at joint(s) 12, 11 except 13=116(LC 16), 10=118(LC 17)  
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 11 except 13=261(LC 30), 10=262(LC 31)

**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; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 11 except (jt=lb) 13=116, 10=118.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T01	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:12 2021 Page 1  
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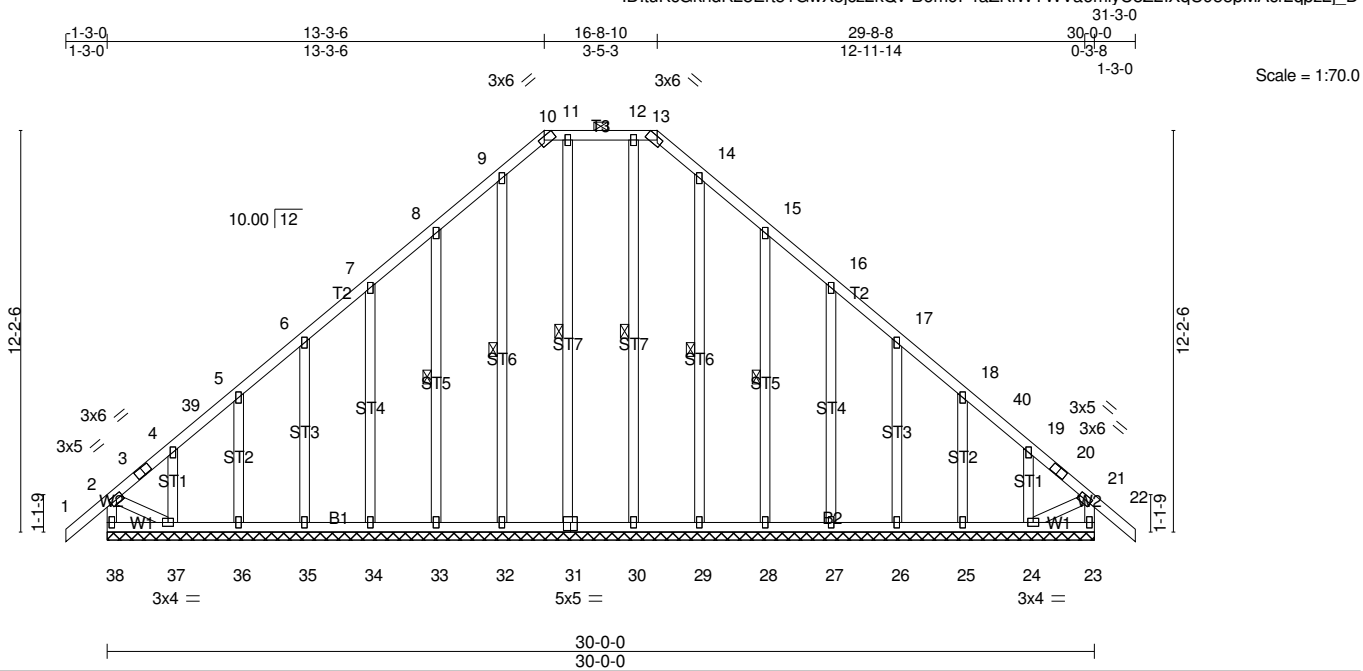


Plate Offsets (X,Y)-- [10:0-3-0,0-0-4], [13:0-3-0,0-0-4], [31:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.19	Vert(LL) -0.01	22	n/r	180	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT) -0.01	22	n/r	120		
TCDL 10.0	Lumber DOL 1.15	WB 0.26	Horz(CT) 0.01	23	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 263 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**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.): 10-13.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 37-38,23-24.  
 WEBS 1 Row at midpt 11-31, 9-32, 8-33, 12-30, 14-29, 15-28

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

**REACTIONS.** All bearings 30-0-0.  
 (lb) - Max Horz 38=-334(LC 14)  
 Max Uplift All uplift 100 lb or less at joint(s) 23, 31, 32, 33, 34, 35, 36, 29, 28, 27, 26, 25 except 38=-135(LC 14), 37=-211(LC 16), 24=-194(LC 17)  
 Max Grav All reactions 250 lb or less at joint(s) 31, 37, 30, 24 except 38=355(LC 32), 23=321(LC 33), 32=270(LC 39), 33=292(LC 39), 34=286(LC 39), 35=289(LC 39), 36=281(LC 39), 29=270(LC 39), 28=292(LC 39), 27=286(LC 39), 26=289(LC 39), 25=281(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-38=-337/145, 2-3=-318/199, 3-4=-305/221, 19-20=-261/207, 20-21=-274/193, 21-23=-304/170  
 BOT CHORD 37-38=-309/302, 36-37=-203/264, 35-36=-203/264, 34-35=-203/264, 33-34=-203/264, 32-33=-203/264, 31-32=-203/264, 30-31=-202/264, 29-30=-202/264, 28-29=-202/264, 27-28=-202/264, 26-27=-202/264, 25-26=-202/264, 24-25=-202/264  
 WEBS 8-33=-253/121, 15-28=-253/124, 2-37=-198/302, 21-24=-180/271

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2-0-0 oc.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T01	Piggyback Base Supported Gable	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:12 2021 Page 2  
ID:tuKcGkndK28Ert51GwX8jcz2kQv-B6m9F4aZKfWYVva6mlyC8Z2IXqU955pMAcr2qpz2\_D

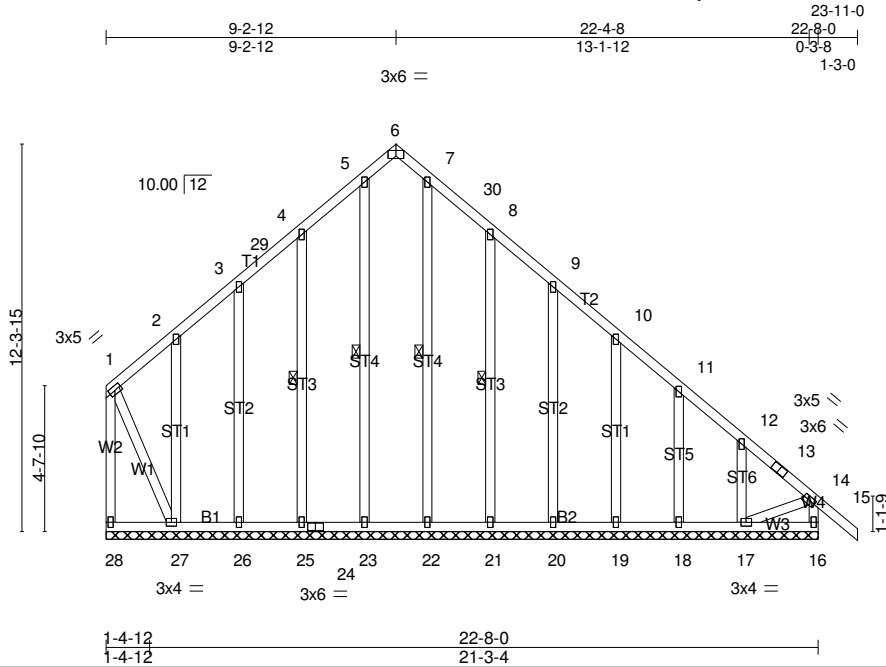
**NOTES-**

- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 31, 32, 33, 34, 35, 36, 29, 28, 27, 26, 25 except (jt=lb) 38=135, 37=211, 24=194.
- 15) 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.
- 16) 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 21-3743-A	Truss T01GE	Truss Type GABLE	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
Riverside Roof Truss, LLC, Danville, VA. 24541					Job Reference (optional)

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:13 2021 Page 1  
ID:tuKcGkndK28Ert51GwX8jcz2kQv-fJKXTQaB5zeP8f9JKSTRhmbSKEoxqaBVOGbbNgz2\_C



Scale = 1:73.3

Plate Offsets (X,Y)-- [6:0-3-0,Edge]											
<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 (roof)	30.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.01	15	n/r	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	15	n/r		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	16	n/a		
BCLL	0.0 *	Code IRC2015/TPI2014		Matrix-S							
BCDL	10.0									Weight: 209 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-23, 4-25, 7-22, 8-21
OTHERS	2x4 SP No.3		

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

**REACTIONS.** All bearings 22-8-0.  
(lb) - Max Horz 28=-372(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 16, 26, 20, 19, 18 except 28=-289(LC 14), 25=-112(LC 16), 27=-351(LC 16), 21=-113(LC 17), 17=-204(LC 17)  
Max Grav All reactions 250 lb or less at joint(s) 23, 25, 26, 22, 21, 20, 19, 18 except 28=394(LC 13), 16=340(LC 33), 27=427(LC 14), 17=256(LC 31)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-28=-371/291, 12-13=-319/229, 13-14=-329/203, 14-16=-318/156  
BOT CHORD 27-28=-289/336, 26-27=-254/311, 25-26=-254/311, 24-25=-254/311, 23-24=-254/311, 22-23=-254/311, 21-22=-254/311, 20-21=-254/311, 19-20=-254/311, 18-19=-254/311, 17-18=-254/311  
WEBS 14-17=-237/316, 1-27=-326/378

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 5) Unbalanced snow loads have been considered for this design.
  - 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 7) All plates are 2x4 MT20 unless otherwise indicated.
  - 8) Gable requires continuous bottom chord bearing.
  - 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 10) Gable studs spaced at 2-0-0 oc.
  - 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 12) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T01GE	GABLE	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:13 2021 Page 2  
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**NOTES-**

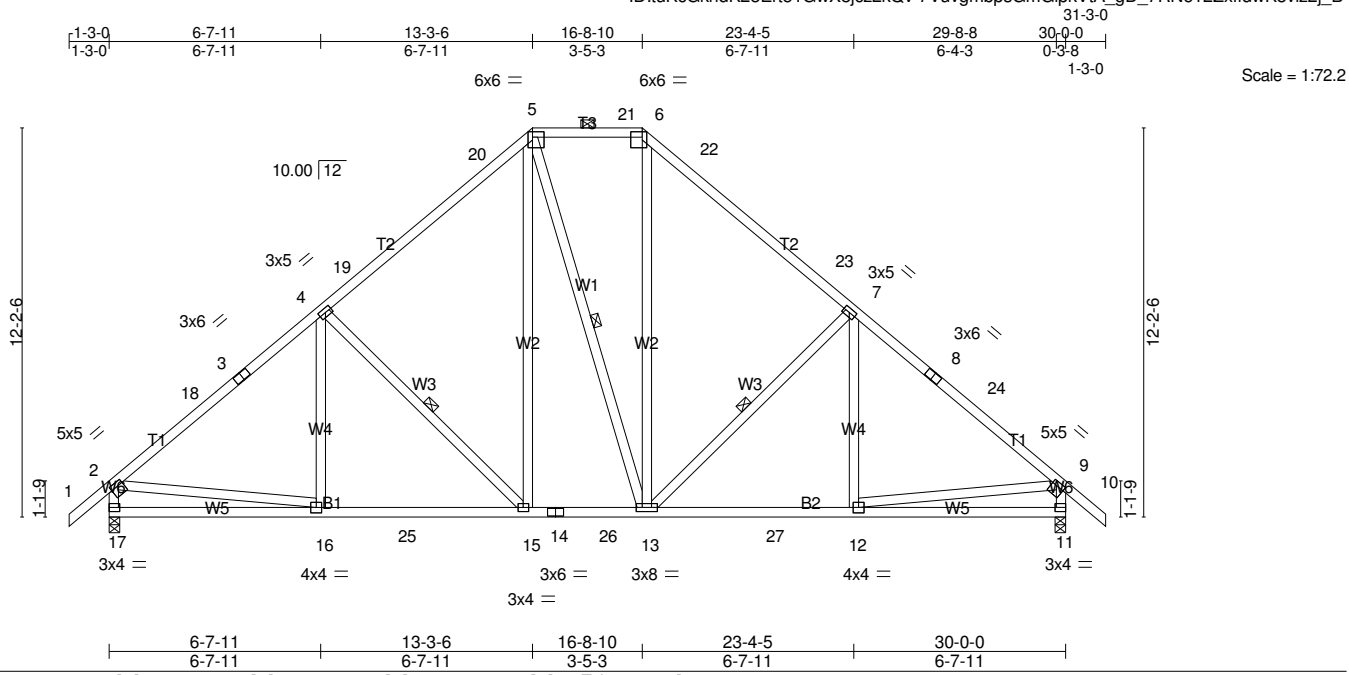
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 26, 20, 19, 18 except (jt=lb) 28=289, 25=112, 27=351, 21=113, 17=204.
- 14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job 21-3743-A	Truss T02	Truss Type Piggyback Base	Qty 5	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:14 2021 Page 1  
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Scale = 1:72.2

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.93	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.09 15-16 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.56	Vert(CT) -0.16 15-16 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 224 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1 \*Except\*  
 T3: 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-9-10 max.): 5-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-15, 5-13, 7-13

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

**REACTIONS.** (lb/size) 17=1373/0-4-0 (min. 0-2-4), 11=1373/0-4-0 (min. 0-2-4)  
 Max Horz 17=-334(LC 14)  
 Max Uplift 17=-146(LC 16), 11=-146(LC 17)  
 Max Grav 17=1906(LC 39), 11=1906(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-18=-2225/241, 3-18=-2076/242, 3-4=-1868/269, 4-19=-1787/305, 19-20=-1490/329,  
 5-20=-1360/351, 5-21=-1135/339, 6-21=-1135/339, 6-22=-1361/352, 22-23=-1491/329,  
 7-23=-1788/305, 7-8=-1868/269, 8-24=-2075/242, 9-24=-2225/241, 2-17=-1843/286,  
 9-11=-1843/286  
 BOT CHORD 16-17=-320/480, 16-25=-156/1626, 15-25=-156/1626, 14-15=-34/1139, 14-26=-34/1139,  
 13-26=-34/1139, 13-27=-43/1594, 12-27=-43/1594, 11-12=-90/281  
 WEBS 4-15=-669/248, 5-15=-115/626, 6-13=-103/591, 7-13=-667/248, 2-16=0/1353, 9-12=0/1351

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=146, 11=146.
  - 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 21-3743-A	Truss T03	Truss Type Piggyback Base	Qty 2	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

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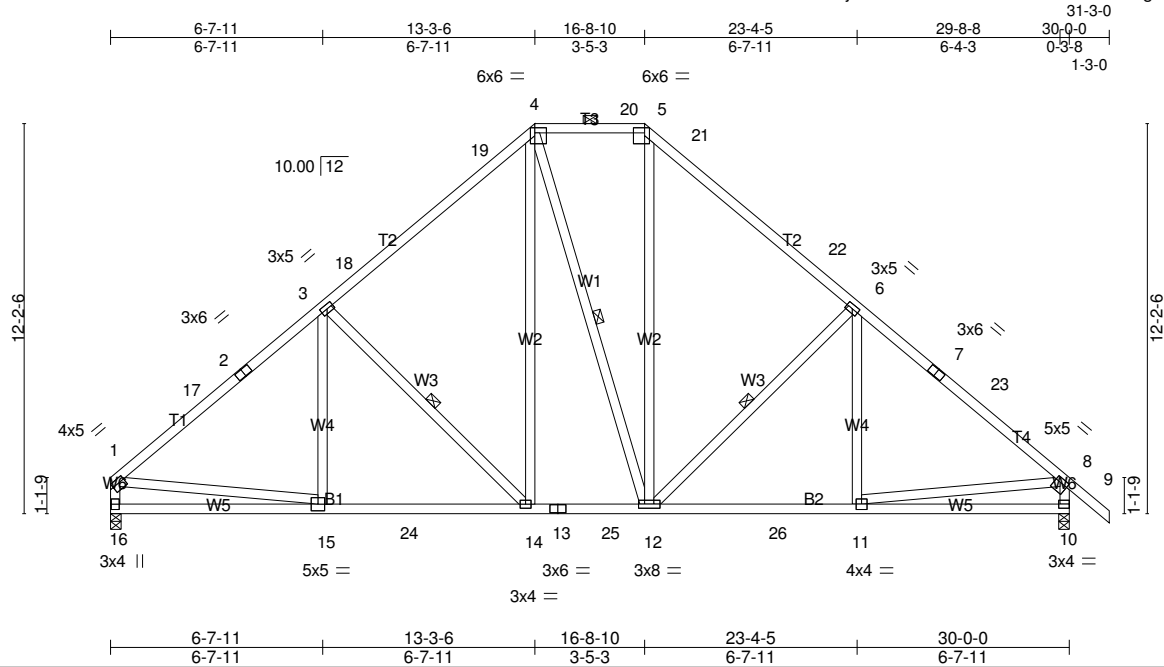


Plate Offsets (X,Y)-- [1:0-1-12,0-1-8], [4:0-4-4,0-2-0], [5:0-4-4,0-2-0], [8:0-1-12,0-1-8], [10:Edge,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.93	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.09 14-15 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.58	Vert(CT) -0.16 14-15 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 221 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1 \*Except\*  
T3: 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-9-10 max.): 4-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 3-14, 4-12, 6-12

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

**REACTIONS.** (lb/size) 16=1278/0-4-0 (min. 0-2-2), 10=1375/0-4-0 (min. 0-2-4)  
Max Horz 16=-324(LC 12)  
Max Uplift16=-116(LC 16), 10=-146(LC 17)  
Max Grav 16=1812(LC 39), 10=1908(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-17=-2228/237, 2-17=-2092/238, 2-3=-1871/266, 3-18=-1793/308, 18-19=-1493/332,  
4-19=-1366/354, 4-20=-1138/340, 5-20=-1138/340, 5-21=-1335/353, 21-22=-1495/330,  
6-22=-1791/306, 6-7=-1871/270, 7-23=-2078/243, 8-23=-2228/242, 1-16=-1749/224,  
8-10=-1845/286  
BOT CHORD 15-16=-292/429, 15-24=-159/1637, 14-24=-159/1637, 13-14=-34/1141, 13-25=-34/1141,  
12-25=-34/1141, 12-26=-44/1597, 11-26=-44/1597, 10-11=-90/281  
WEBS 3-14=-681/253, 4-14=-118/635, 5-12=-102/591, 6-12=-667/248, 1-15=-41/1410,  
8-11=0/1354

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 6) Provide adequate drainage to prevent water ponding.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=116, 10=146.
  - 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T04	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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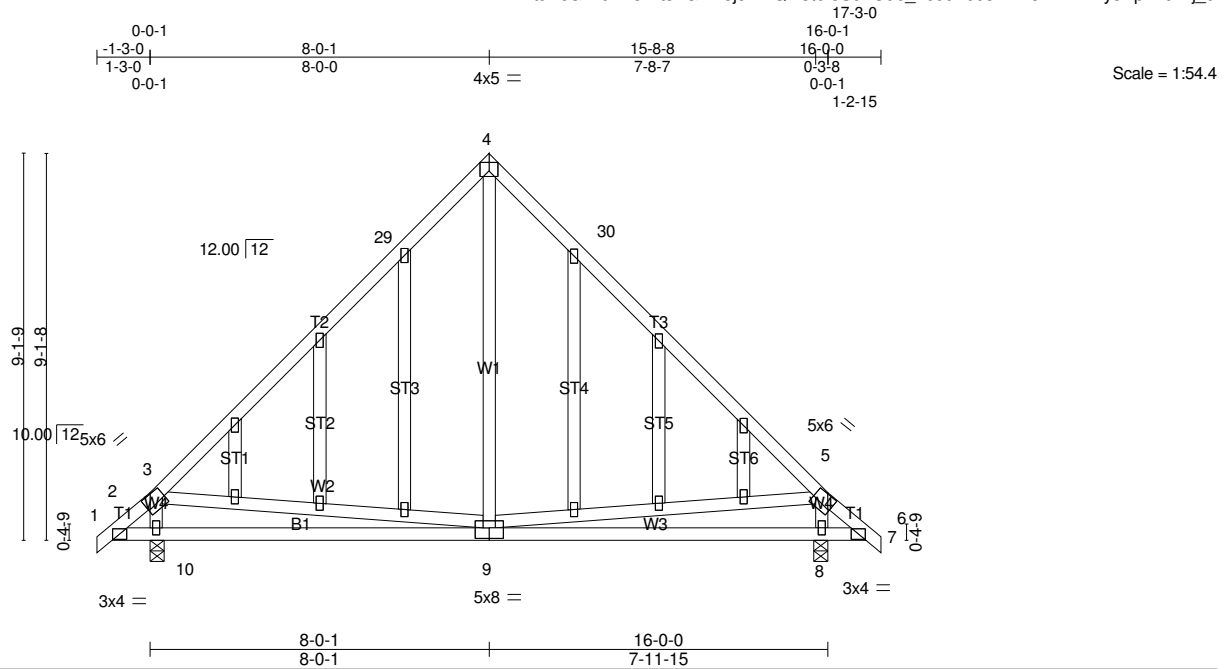


Plate Offsets (X,Y)-- [3:0-5-4,0-3-0], [4:0-2-7,Edge], [5:0-5-4,0-3-0], [9:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.66	Vert(LL)	-0.05	9-10	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.47	Vert(CT)	-0.11	9-10	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.23	Horz(CT)	0.01	8	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 139 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP DSS \*Except\*  
 T1: 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

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

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

**REACTIONS.** (lb/size) 10=790/0-4-0 (min. 0-1-8), 8=790/0-4-0 (min. 0-1-8)  
 Max Horz 10=223(LC 15)  
 Max Uplift 10=-65(LC 16), 8=-65(LC 17)  
 Max Grav 10=918(LC 2), 8=918(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-29=-770/102, 4-29=-434/139, 4-30=-434/139, 5-30=-770/102, 3-10=-795/350,  
 5-8=-796/349  
 BOT CHORD 9-10=-282/455, 8-9=-140/311  
 WEBS 3-9=-185/313, 4-9=0/315, 5-9=-197/321

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T05	Roof Special	4	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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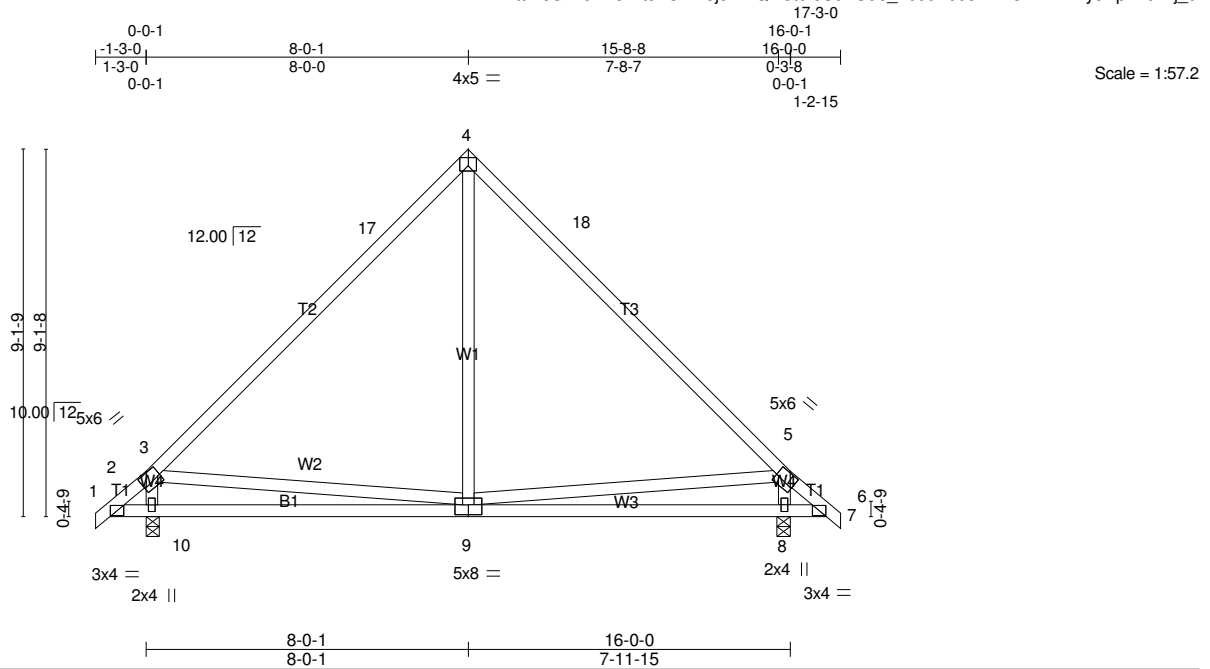


Plate Offsets (X,Y)-- [3:0-5-4,0-3-0], [4:0-2-7,Edge], [5:0-5-4,0-3-0], [9:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.66	Vert(LL)	-0.05 9-10	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.47	Vert(CT)	-0.11 9-10	>999	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.23	Horz(CT)	0.01 8	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 104 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP DSS \*Except\*  
T1: 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 10=790/0-4-0 (min. 0-1-8), 8=790/0-4-0 (min. 0-1-8)  
Max Horz 10=223(LC 15)  
Max Uplift 10=-65(LC 16), 8=-65(LC 17)  
Max Grav 10=918(LC 2), 8=918(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-17=-770/102, 4-17=-434/139, 4-18=-434/139, 5-18=-770/102, 3-10=-795/350,  
5-8=-796/349  
BOT CHORD 9-10=-282/455, 8-9=-140/311  
WEBS 3-9=-185/313, 4-9=0/315, 5-9=-197/321

**NOTES-**

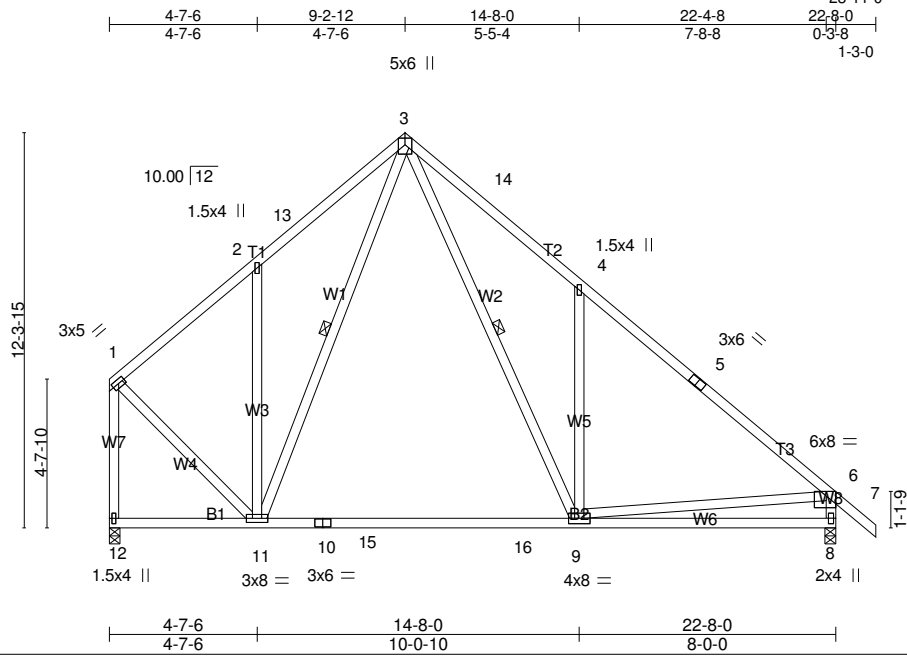
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCCL: ASCE 7-10; Pr=30.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job 21-3743-A	Truss T06	Truss Type Common	Qty 4	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:71.9

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

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.91	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.40	Vert(LL) -0.33 9-11 >809 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.62	Vert(CT) -0.48 9-11 >555 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 168 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP DSS  
 WEBS 2x4 SP No.3 \*Except\*  
 W8: 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-11, 3-9

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

**REACTIONS.** (lb/size) 12=961/0-4-0 (min. 0-1-8), 8=1060/0-4-0 (min. 0-1-8)  
 Max Horz 12=-372(LC 12)  
 Max Uplift 12=-97(LC 17), 8=-109(LC 17)  
 Max Grav 12=1115(LC 2), 8=1234(LC 2)

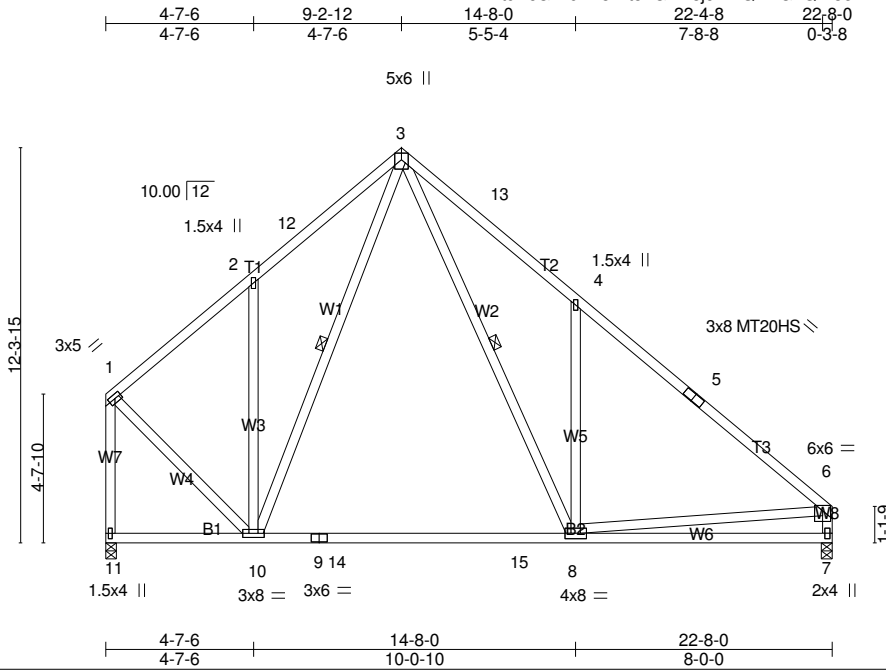
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-790/192, 2-13=-876/356, 3-13=-768/388, 3-14=-1118/458, 4-14=-1258/421,  
 4-5=-1081/192, 5-6=-1277/162, 1-12=-1129/167, 6-8=-1166/238  
 BOT CHORD 11-12=-290/337, 11-15=-25/613, 10-15=-25/613, 10-16=-25/613, 9-16=-25/613,  
 8-9=-210/457  
 WEBS 2-11=-428/284, 3-11=-197/293, 3-9=-332/936, 4-9=-590/388, 1-11=-81/806, 6-9=-24/615

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 8=109.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job 21-3743-A	Truss T07	Truss Type COMMON	Qty 8	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
Riverside Roof Truss, LLC, Danville, VA. 24541					Job Reference (optional)

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:18 2021 Page 1  
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Scale = 1:71.9

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.85	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.40	Vert(LL) -0.33 8-10 >810 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.67	Vert(CT) -0.48 8-10 >556 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 166 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1 \*Except\*  
 T1: 2x4 SP No.2  
 BOT CHORD 2x4 SP DSS  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-10, 3-8

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

**REACTIONS.** (lb/size) 11=964/0-4-0 (min. 0-1-8), 7=964/0-4-0 (min. 0-1-8)  
 Max Horz 11=-353(LC 12)  
 Max Uplift 11=-97(LC 17), 7=-79(LC 17)  
 Max Grav 11=1119(LC 2), 7=1119(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-792/192, 2-12=-879/358, 3-12=-770/390, 3-13=-1136/471, 4-13=-1282/433,  
 4-5=-1081/188, 5-6=-1277/156, 1-11=-1132/167, 6-7=-1051/176  
 BOT CHORD 10-11=-280/318, 10-14=-37/600, 9-14=-37/600, 9-15=-37/600, 8-15=-37/600, 7-8=-136/303  
 WEBS 2-10=-429/285, 3-10=-196/293, 3-8=-345/964, 4-8=-632/413, 1-10=-82/809, 6-8=0/692

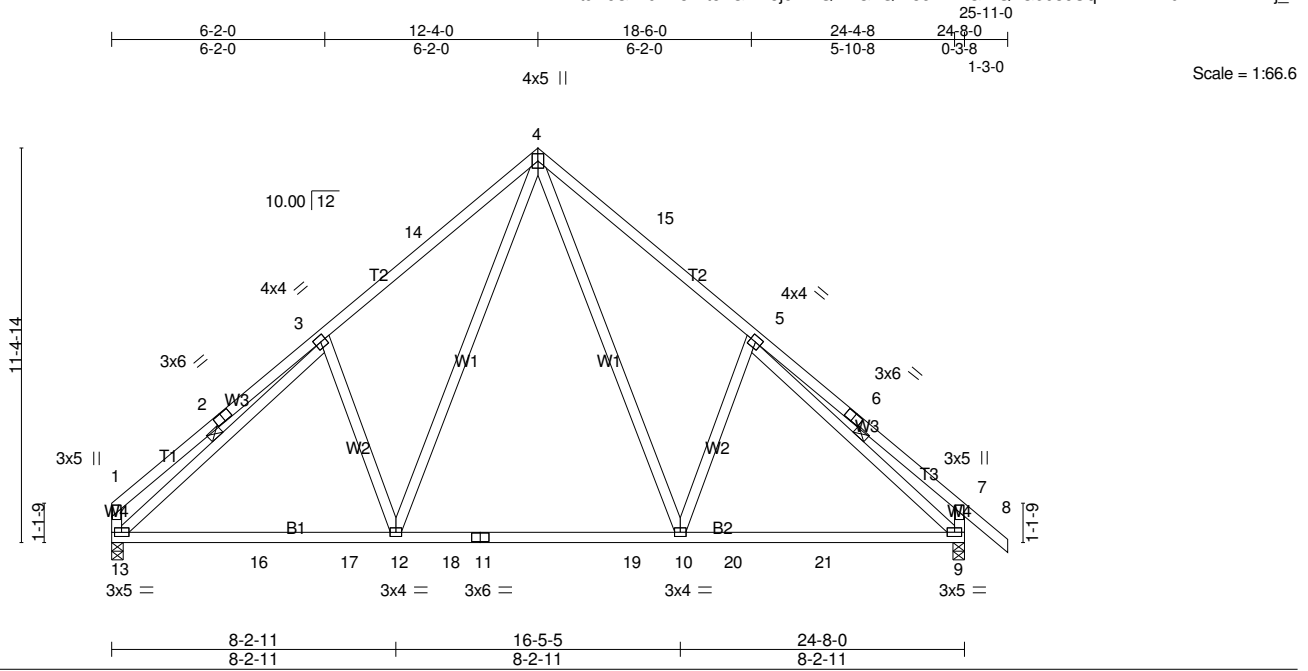
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) All plates are MT20 plates unless otherwise indicated.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 7.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T08	Common	4	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.71	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.16 10-12 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.53	Vert(CT) -0.23 10-12 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 165 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 3-13, 5-9

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

**REACTIONS.** (lb/size) 13=1048/0-4-0 (min. 0-1-8), 9=1146/0-4-0 (min. 0-1-9)  
Max Horz 13=-303(LC 12)  
Max Uplift 13=-87(LC 16), 9=-116(LC 17)  
Max Grav 13=1216(LC 2), 9=1334(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-433/152, 2-3=-289/179, 3-14=-1336/342, 4-14=-1189/366, 4-15=-1182/365,  
5-15=-1327/343, 5-6=-350/233, 6-7=-477/208, 1-13=-400/158, 7-9=-539/238  
BOT CHORD 13-16=-137/1172, 16-17=-137/1172, 12-17=-137/1172, 12-18=0/798, 11-18=0/798,  
11-19=0/798, 10-19=0/798, 10-20=-25/1024, 20-21=-25/1024, 9-21=-25/1024  
WEBS 4-10=-193/685, 5-10=-360/303, 4-12=-196/698, 3-12=-376/307, 3-13=-1155/78,  
5-9=-1129/29

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 9=116.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

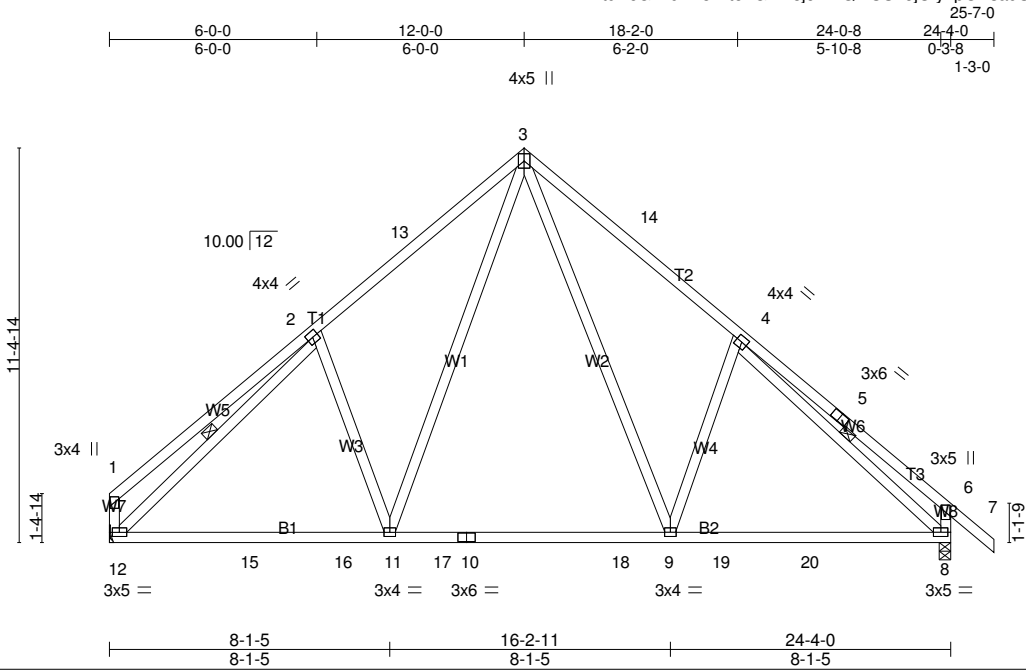
**LOAD CASE(S)** Standard



Job 21-3743-A	Truss T09	Truss Type Common	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:66.6

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.72	Vert(LL) -0.15 9-11 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.54	Vert(CT) -0.21 9-11 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 8 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014			Weight: 165 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 2-12, 4-8

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

**REACTIONS.** (lb/size) 12=1034/Mechanical, 8=1131/0-4-0 (min. 0-1-9)  
Max Horz 12=-307(LC 12)  
Max Uplift 12=-83(LC 16), 8=-115(LC 17)  
Max Grav 12=1199(LC 2), 8=1317(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-350/170, 2-13=-1273/333, 3-13=-1130/357, 3-14=-1166/365, 4-14=-1312/343,  
4-5=-347/233, 5-6=-473/208, 1-12=-343/151, 6-8=-536/238  
BOT CHORD 12-15=-125/1111, 15-16=-125/1111, 11-16=-125/1111, 11-17=0/780, 10-17=0/780,  
10-18=0/780, 9-18=0/780, 9-19=-22/1008, 19-20=-22/1008, 8-20=-22/1008  
WEBS 3-11=-187/650, 2-11=-337/298, 3-9=-199/687, 4-9=-363/306, 2-12=-1183/92, 4-8=-1113/25

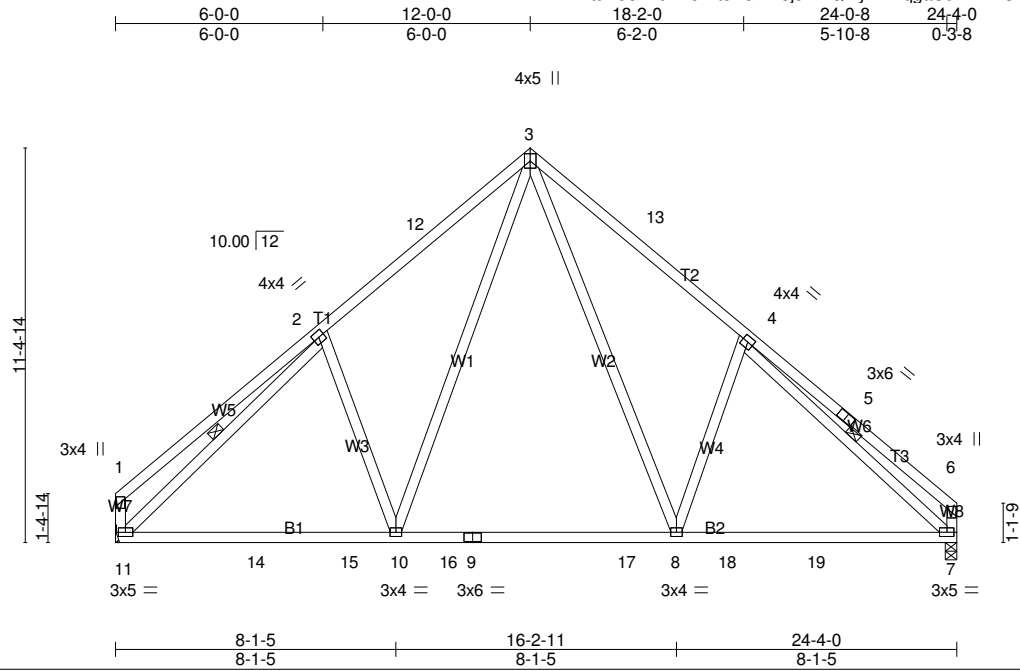
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 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) 12 except (jt=lb) 8=115.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T10	Common	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:66.6

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.72	Vert(LL) -0.15 8-10 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.55	Vert(CT) -0.21 8-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 162 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-9-14 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 2-11, 4-7

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

**REACTIONS.** (lb/size) 11=1036/Mechanical, 7=1036/0-4-0 (min. 0-1-8)  
Max Horz 11=-288(LC 14)  
Max Uplift 11=-83(LC 16), 7=-86(LC 17)  
Max Grav 11=1202(LC 2), 7=1202(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-350/170, 2-12=-1276/336, 3-12=-1133/359, 3-13=-1178/368, 4-13=-1325/347,  
4-5=-285/179, 5-6=-429/153, 1-11=-343/151, 6-7=-397/158  
BOT CHORD 11-14=-144/1099, 14-15=-144/1099, 10-15=-144/1099, 10-16=-4/768, 9-16=-4/768,  
9-17=-4/768, 8-17=-4/768, 8-18=-92/1004, 18-19=-92/1004, 7-19=-92/1004  
WEBS 3-10=-187/650, 2-10=-337/299, 3-8=-203/701, 4-8=-379/310, 2-11=-1188/92, 4-7=-1142/75

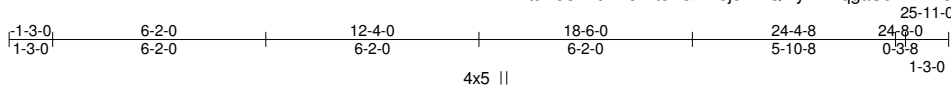
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 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) 11, 7.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

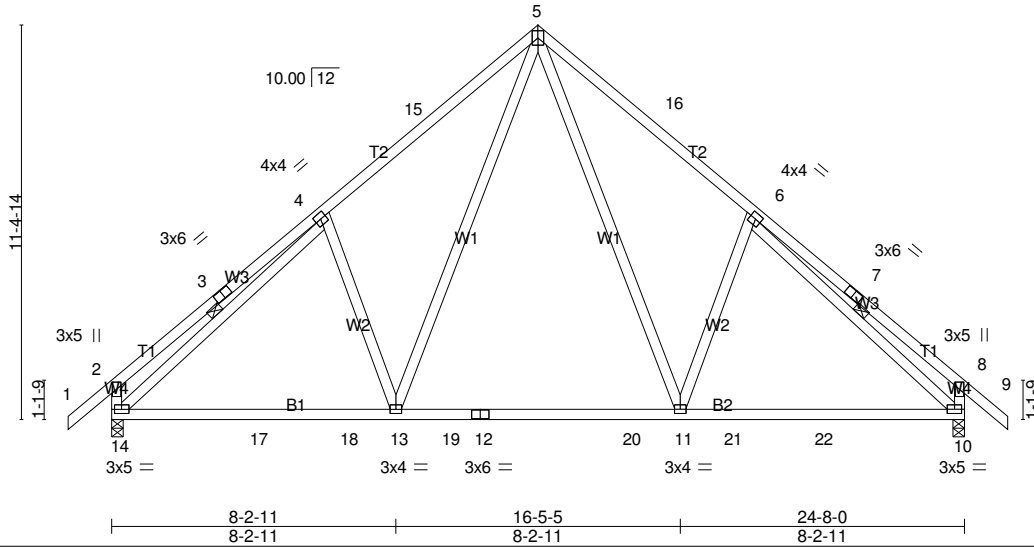
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T11	Common	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:66.6



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.16 11-13 >999 360		
BCDL 10.0	Lumber DOL 1.15	WB 0.52	Vert(CT) -0.23 11-13 >999 240		
TCDL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 10 n/a n/a		
BCLL 0.0	Code IRC2015/TPI2014				
BCDL 10.0					
				Weight: 168 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

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

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

**REACTIONS.** (lb/size) 14=1143/0-4-0 (min. 0-1-9), 10=1143/0-4-0 (min. 0-1-9)  
Max Horz 14=313(LC 15)  
Max Uplift 14=-116(LC 16), 10=-116(LC 17)  
Max Grav 14=1330(LC 2), 10=1330(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-478/208, 3-4=-351/233, 4-15=-1323/339, 5-15=-1179/363, 5-16=-1179/363,  
6-16=-1323/339, 6-7=-351/233, 7-8=-477/208, 2-14=-540/238, 8-10=-540/238  
BOT CHORD 14-17=-134/1160, 17-18=-134/1160, 13-18=-134/1160, 13-19=0/795, 12-19=0/795,  
12-20=0/795, 11-20=0/795, 11-21=-24/1021, 21-22=-24/1021, 10-22=-24/1021  
WEBS 5-11=-192/685, 6-11=-360/303, 5-13=-192/685, 4-13=-360/303, 4-14=-1125/28,  
6-10=-1125/28

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=116, 10=116.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T12	Hip	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:21 2021 Page 1  
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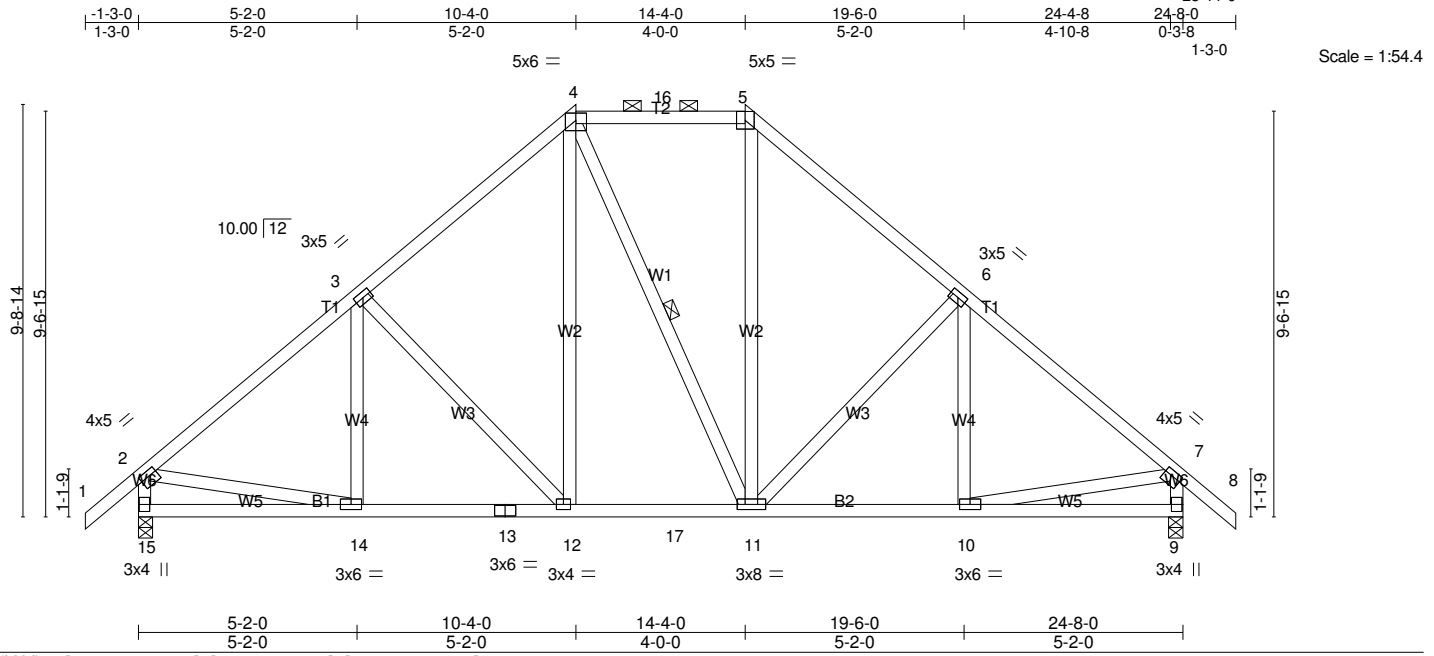


Plate Offsets (X,Y)--	[2:0-1-12,0-1-8], [4:0-3-0,0-2-1], [7:0-1-12,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.36	Vert(LL) -0.05 12 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.44	Vert(CT) -0.09 12-14 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 181 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-9 max.): 4-5.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-11

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

**REACTIONS.** (lb/size) 15=1143/0-4-0 (min. 0-1-15), 9=1143/0-4-0 (min. 0-1-15)  
 Max Horz 15=270(LC 15)  
 Max Uplift 15=-129(LC 16), 9=-129(LC 17)  
 Max Grav 15=1663(LC 39), 9=1663(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1808/218, 3-4=-1430/285, 4-16=-924/274, 5-16=-924/274, 5-6=-1431/286,  
 6-7=-1808/218, 2-15=-1611/246, 7-9=-1611/246  
 BOT CHORD 14-15=-243/372, 13-14=-118/1247, 12-13=-118/1247, 12-17=-45/923, 11-17=-45/923,  
 10-11=-29/1246  
 WEBS 3-12=-452/186, 4-12=-78/468, 5-11=-64/423, 6-11=-450/186, 2-14=-19/1060,  
 7-10=-20/1059

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=129, 9=129.
  - 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	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T13	Hip	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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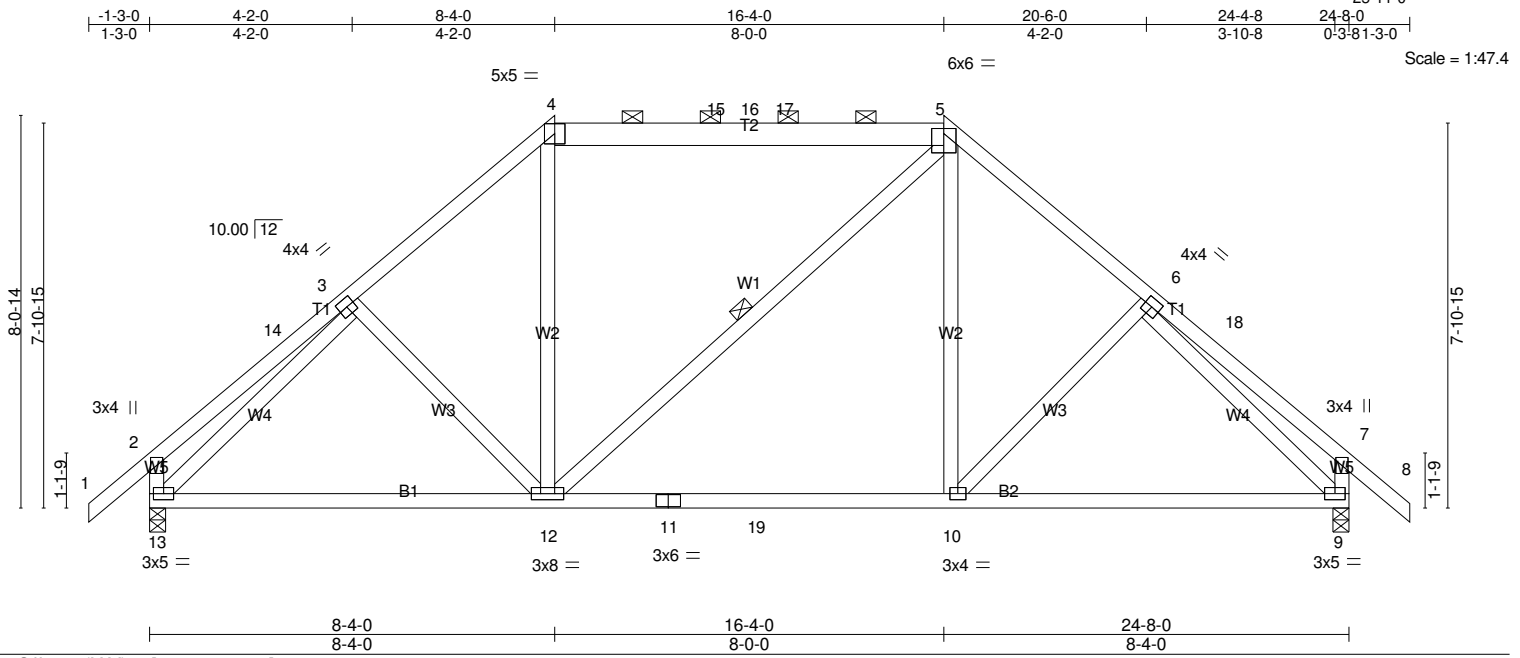


Plate Offsets (X,Y)-- [5:0-3-0,0-1-4]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	-0.14 10-12	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.21 10-12	>999	240		
TCDL 10.0	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.04 9	n/a	n/a		
BCLL 0.0 *	Code IRC2015/TPI2014		Matrix-MS						
BCDL 10.0								Weight: 166 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2 \*Except\*  
 T2: 2x6 SP 2400F 2.0E  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-6-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 5-12

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

**REACTIONS.** (lb/size) 13=1143/0-4-0 (min. 0-1-14), 9=1143/0-4-0 (min. 0-1-14)  
 Max Horz 13=229(LC 15)  
 Max Uplift 13=-138(LC 16), 9=-138(LC 17)  
 Max Grav 13=1564(LC 39), 9=1564(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-14=-329/110, 3-4=-1310/268, 4-15=-886/257, 15-16=-886/257, 16-17=-886/257,  
 5-17=-886/257, 5-6=-1309/268, 7-18=-329/110, 2-13=-525/159, 7-9=-525/159  
 BOT CHORD 12-13=-147/1037, 11-12=-18/886, 11-19=-18/886, 10-19=-18/886, 9-10=-60/1037  
 WEBS 4-12=-5/365, 5-10=-16/439, 3-13=-1321/152, 6-9=-1320/152

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=138, 9=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 21-3743-A	Truss T14	Truss Type Hip Girder	Qty 1	Ply 2	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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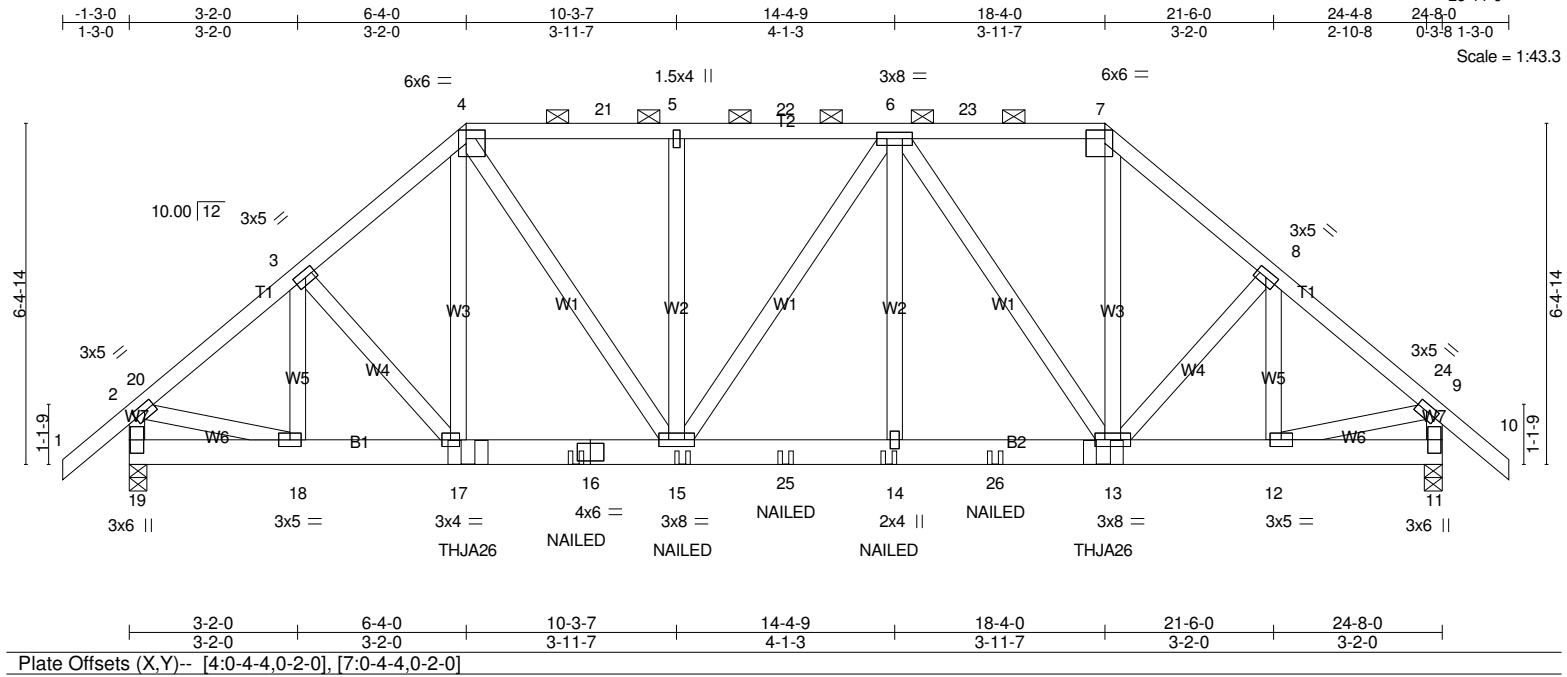


Plate Offsets (X,Y)-- [4:0-4-4,0-2-0], [7:0-4-4,0-2-0]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 0.25	Vert(LL) -0.06 14-15 >999 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.09 14-15 >999 240		
TCDL 10.0	Rep Stress Incr NO	WB 0.43	Horz(CT) 0.03 11 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MS			
BCDL 10.0				Weight: 401 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (lb/size) 19=2482/0-4-0 (min. 0-1-10), 11=2488/0-4-0 (min. 0-1-10)  
 Max Horz 19=-187(LC 14)  
 Max Uplift 19=-768(LC 16), 11=-771(LC 17)  
 Max Grav 19=2723(LC 39), 11=2729(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 2-20=-2878/911, 3-20=-2864/932, 3-4=-3210/1110, 4-21=-3190/1092, 5-21=-3190/1092, 5-22=-3190/1092, 6-22=-3190/1092, 6-23=-2409/875, 7-23=-2409/875, 7-8=-3222/1116, 8-24=-2868/934, 9-24=-2882/914, 2-19=-2629/851, 9-11=-2632/853  
**BOT CHORD** 18-19=-194/268, 17-18=-700/2166, 16-17=-762/2426, 15-16=-762/2426, 15-25=-922/3182, 14-25=-922/3182, 14-26=-922/3182, 13-26=-922/3182, 12-13=-602/2167  
**WEBS** 3-18=-616/240, 3-17=-280/419, 4-17=-306/787, 4-15=-438/1394, 5-15=-523/118, 6-14=-200/642, 6-13=-1377/429, 7-13=-623/1775, 8-13=-283/434, 8-12=-627/245, 2-18=-611/2076, 9-12=-611/2072

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=768, 11=771.

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T14	Hip Girder	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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**NOTES-**

- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 6-4-6 from the left end to connect truss(es) J01 (1 ply 2x4 SP), CJ01 (1 ply 2x6 SP) to back face of bottom chord.
- 15) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 18-3-10 from the left end to connect truss(es) J01 (1 ply 2x4 SP), CJ01 (1 ply 2x6 SP) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

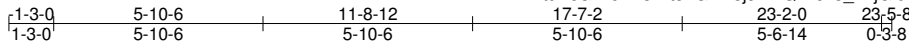
**LOAD CASE(S)** Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-2=-66, 2-4=-66, 4-7=-66, 7-9=-66, 9-10=-66, 11-19=-20
  - Concentrated Loads (lb)
    - Vert: 16=-260(B) 17=-692(B) 15=-260(B) 14=-260(B) 13=-692(B) 25=-260(B) 26=-260(B)

Job 21-3743-A	Truss T15	Truss Type Common	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

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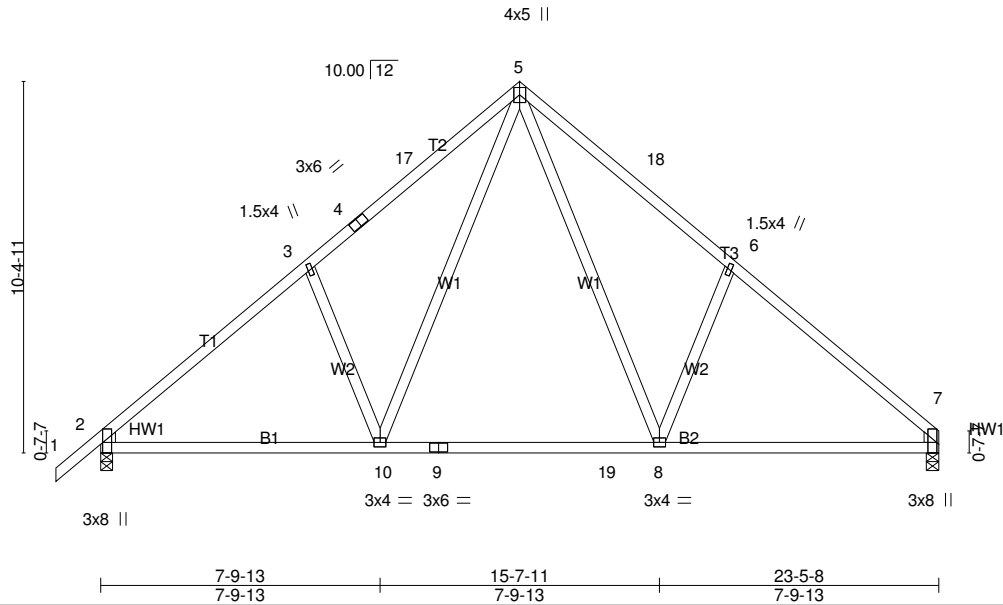


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [7:0-3-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.64	Vert(LL) -0.20 8-10 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.43	Vert(CT) -0.28 8-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 131 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 WEDGE  
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-1-11 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=1096/0-4-0 (min. 0-1-8), 7=1009/0-4-4 (min. 0-1-8)  
 Max Horz 2=259(LC 13)  
 Max Uplift 2=114(LC 16), 7=-87(LC 17)  
 Max Grav 2=1276(LC 2), 7=1170(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1475/226, 3-4=-1323/309, 4-17=-1162/329, 5-17=-1159/350, 5-18=-1166/353,  
 6-18=-1330/330, 6-7=-1480/228  
 BOT CHORD 2-10=-158/1131, 9-10=0/739, 9-19=0/739, 8-19=0/739, 7-8=-73/1042  
 WEBS 5-8=-191/682, 6-8=-418/280, 5-10=-185/667, 3-10=-411/278

**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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TC LL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=114.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T16	Hip	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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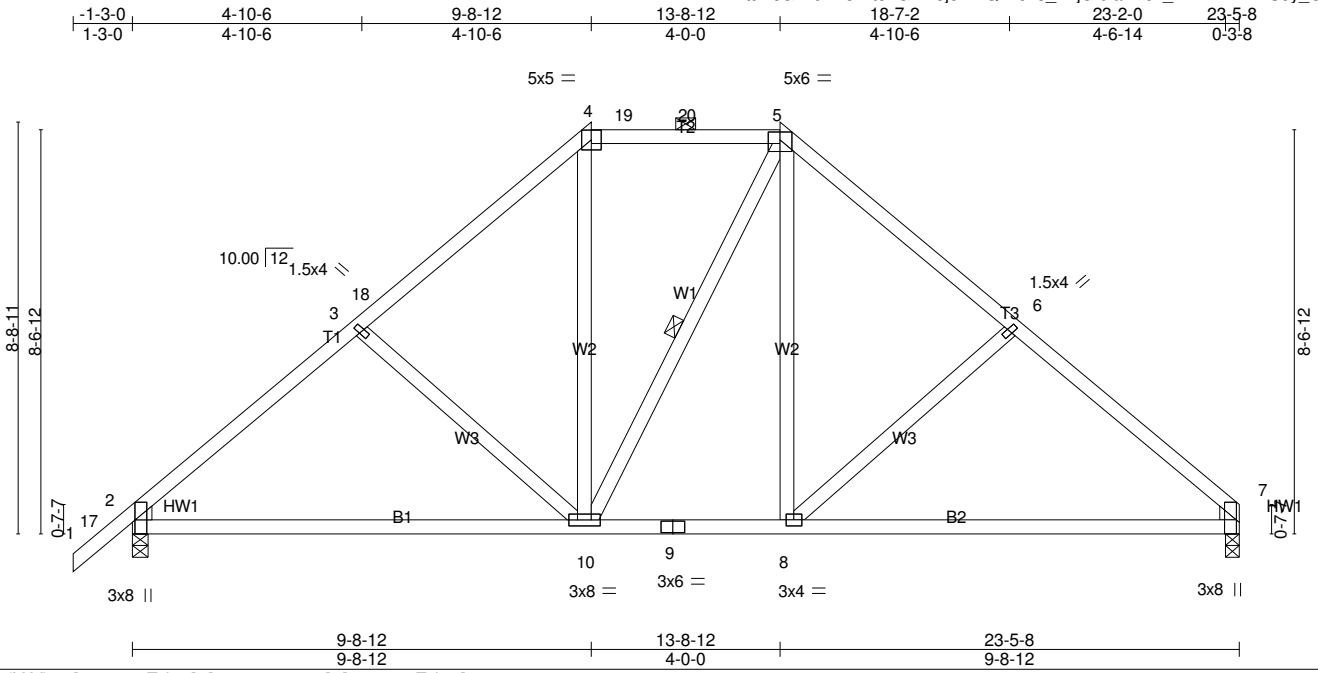


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [5:0-3-0,0-2-1], [7:0-3-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.69	Vert(LL) -0.17 8-16 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.39	Vert(CT) -0.35 8-16 >803 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 138 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-8-6 oc purlins, except 2-0-0 oc purlins (5-9-6 max.): 4-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 5-10

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

**REACTIONS.** (lb/size) 2=1096/0-4-0 (min. 0-1-15), 7=1009/0-3-8 (min. 0-1-12)  
Max Horz 2=216(LC 15)  
Max Uplift 2=-126(LC 16), 7=-98(LC 17)  
Max Grav 2=1621(LC 39), 7=1502(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1889/252, 3-18=-1468/223, 4-18=-1431/261, 4-19=-961/256, 19-20=-961/256,  
5-20=-961/256, 5-6=-1472/262, 6-7=-1895/255  
BOT CHORD 2-10=-168/1335, 9-10=0/962, 8-9=0/962, 7-8=-106/1344  
WEBS 3-10=-487/205, 4-10=-46/452, 5-8=-63/503, 6-8=-498/209

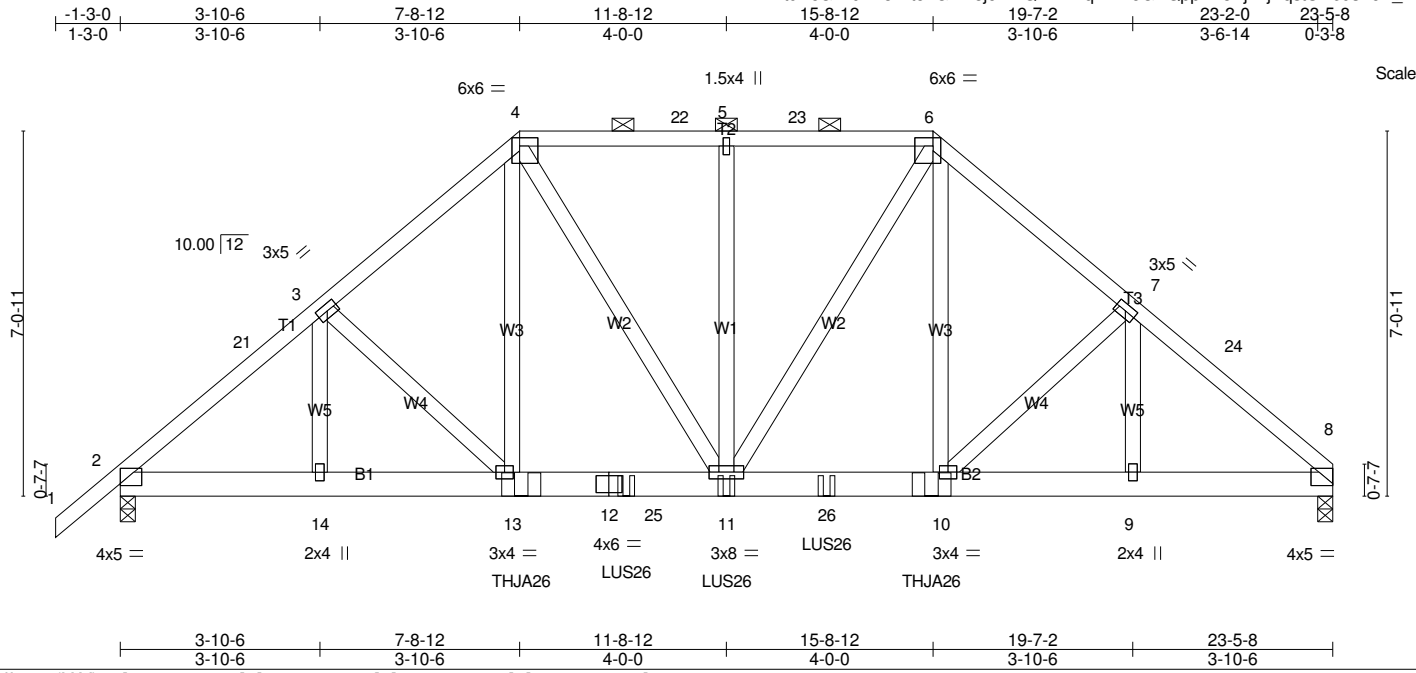
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=126.
  - 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 21-3743-A	Truss T17	Truss Type Hip Girder	Qty 1	Ply 2	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:44.6

Plate Offsets (X,Y)-- [2:0-0-0,0-0-7], [4:0-4-4,0-2-0], [6:0-4-4,0-2-0], [8:0-0-0,0-0-7]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.31	Vert(LL)	-0.06 10-11	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.46	Vert(CT)	-0.09 10-11	>999	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.31	Horz(CT)	0.03 8	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 345 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3

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

**REACTIONS.** (lb/size) 8=2543/0-3-8 (min. 0-1-11), 2=2630/0-3-8 (min. 0-1-12)  
 Max Horz 2=177(LC 65)  
 Max Uplift 8=606(LC 17), 2=634(LC 16)  
 Max Grav 8=2855(LC 39), 2=3018(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-21=-3884/919, 3-21=-3628/944, 3-4=-3677/1029, 4-22=-3099/917, 5-22=-3099/917, 5-23=-3099/917, 6-23=-3099/917, 6-7=-3684/1030, 7-24=-3661/951, 8-24=-3914/927  
 BOT CHORD 2-14=-695/2865, 13-14=-695/2865, 12-13=-659/2698, 12-25=-659/2698, 11-25=-659/2698, 11-26=-592/2700, 10-26=-592/2700, 9-10=-658/2891, 8-9=-658/2891  
 WEBS 3-13=-413/242, 4-13=-405/1463, 4-11=-254/826, 5-11=-556/134, 6-11=-254/824, 6-10=-409/1475, 7-10=-439/251

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=606, 2=634.
  - 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T17	Hip Girder	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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**NOTES-**

- 14) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 7-9-2 from the left end to connect truss(es) J06 (1 ply 2x4 SP), CJ02 (1 ply 2x6 SP) to back face of bottom chord.
- 15) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 1-11-4 oc max. starting at 9-9-8 from the left end to 13-8-0 to connect truss(es) J06 (1 ply 2x4 SP) to back face of bottom chord.
- 16) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 15-8-6 from the left end to connect truss(es) J06 (1 ply 2x4 SP), CJ02 (1 ply 2x6 SP) to back face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-66, 4-6=-66, 6-8=-66, 15-18=-20

Concentrated Loads (lb)

Vert: 13=-1018(B) 11=-344(B) 10=-1018(B) 25=-344(B) 26=-344(B)

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T18	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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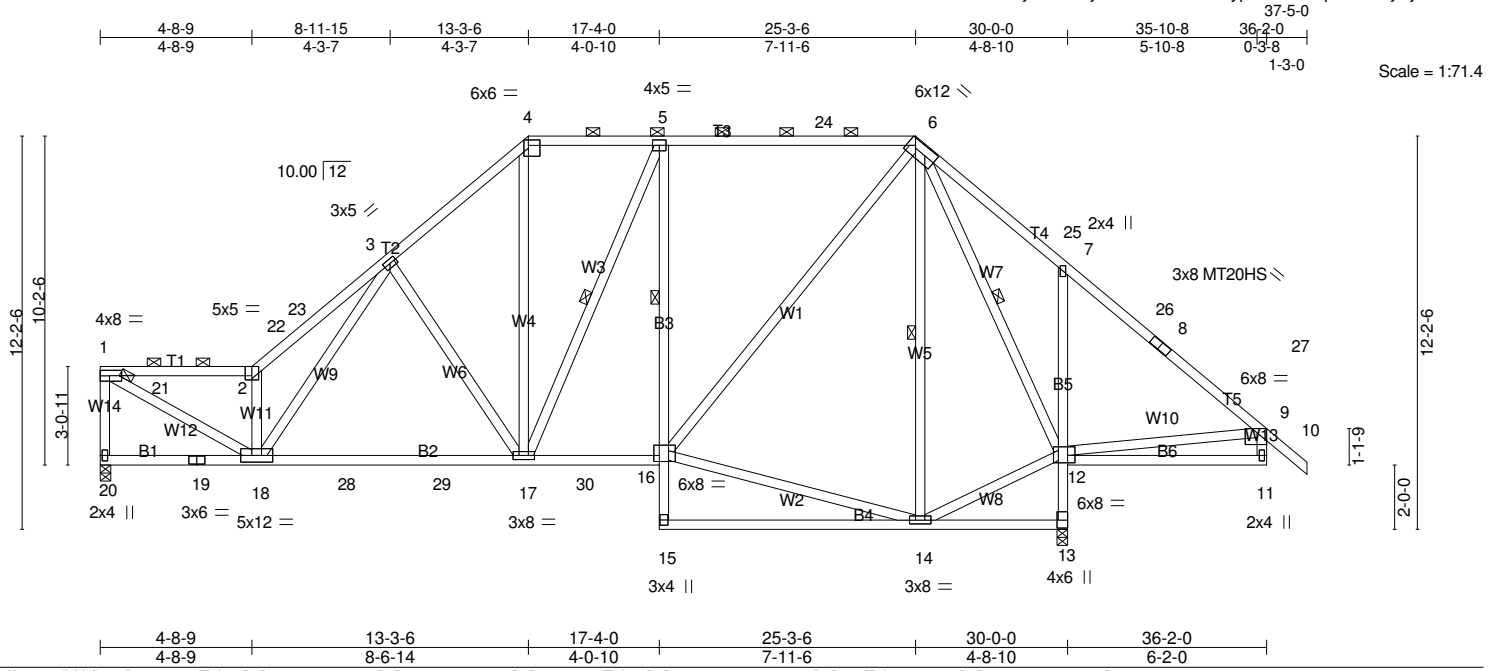


Plate Offsets (X,Y)--	[2:0-2-8,Edge], [4:0-4-4,0-2-0], [6:0-9-4,0-2-4], [9:0-3-8,Edge], [12:0-2-12,0-2-12], [13:Edge,0-3-8], [16:0-5-8,0-4-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.79	Vert(LL) -0.20 17-18 >999 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.98	Vert(CT) -0.37 17-18 >957 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 293 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2 \*Except\*  
 T3: 2x4 SP DSS  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 B3,B5: 2x4 SP No.3  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-4-0 max.): 1-2, 4-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14 3-2-15 oc bracing: 12-13.  
 WEBS 1 Row at midpt 5-16  
 1 Row at midpt 5-17, 6-14, 6-12

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

**REACTIONS.** (lb/size) 20=1204/0-4-0 (min. 0-1-13), 13=1981/0-4-0 (min. 0-2-15)  
 Max Horz 20=-299(LC 12)  
 Max Uplift 20=-120(LC 16), 13=-148(LC 17)  
 Max Grav 20=1516(LC 40), 13=2466(LC 41)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-20=-1472/195, 1-21=-2083/257, 2-21=-2083/257, 2-22=-2656/375, 22-23=-2565/379,  
 3-23=-2562/398, 3-4=-1509/303, 4-5=-1102/275, 5-24=-1221/278, 6-24=-1221/278,  
 6-25=-22/761, 7-25=-27/426, 7-26=-215/835, 8-26=-220/603, 8-27=-241/587,  
 9-27=-244/371  
 BOT CHORD 19-20=-241/268, 18-19=-241/268, 18-28=-199/1404, 28-29=-199/1404, 17-29=-199/1404,  
 17-30=-165/1211, 16-30=-165/1214, 5-16=-682/210, 12-13=-2444/623, 7-12=-713/310,  
 11-12=-127/295  
 WEBS 1-18=-267/2369, 2-18=-1951/349, 3-18=-163/1074, 3-17=-793/243, 4-17=-107/750,  
 5-17=-276/414, 14-16=-79/483, 6-16=-170/1204, 12-14=-68/560, 6-12=-1701/315,  
 9-12=-754/427

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T18	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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**NOTES-**

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=120, 13=148.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T19	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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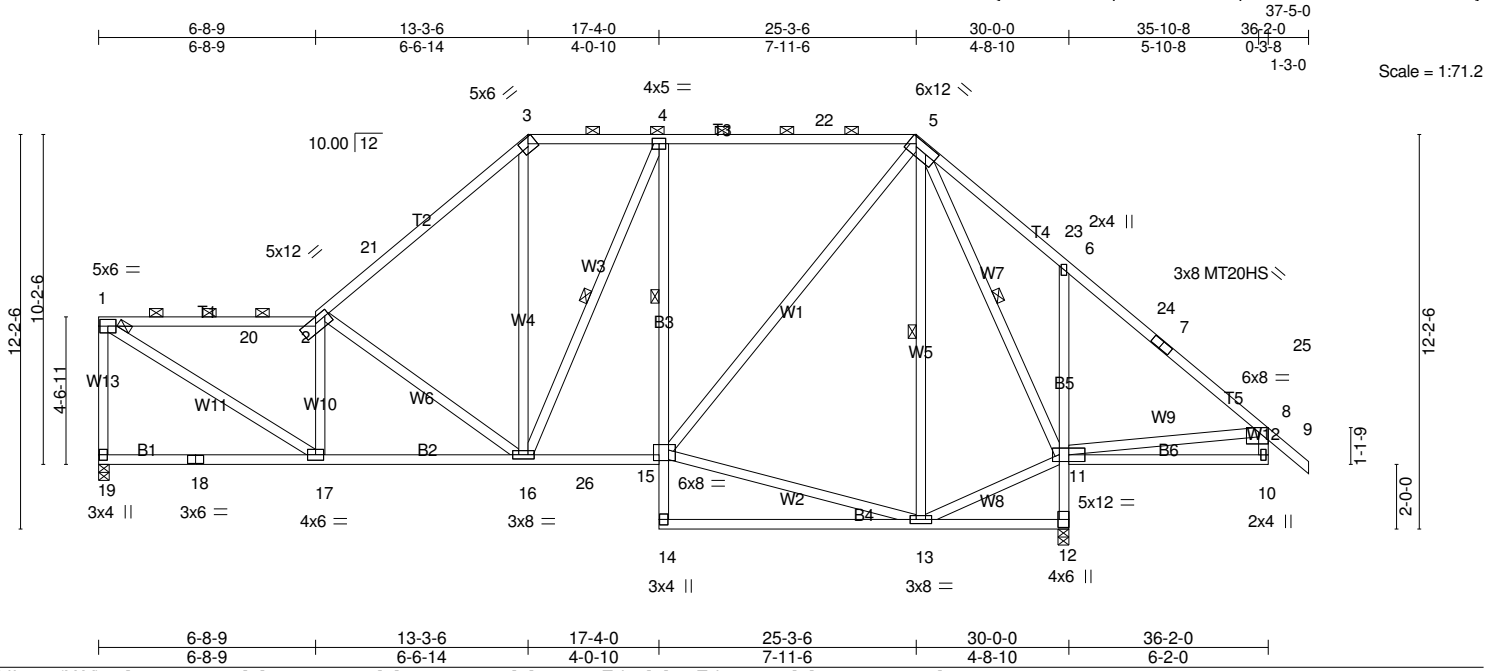


Plate Offsets (X,Y)-- [2:0-6-0,0-2-0], [3:0-3-2,0-2-2], [5:0-9-4,0-2-4], [8:0-3-8,Edge], [12:Edge,0-3-8], [15:0-5-8,0-4-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.99	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.12 13-14 >999 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.98	Vert(CT) -0.26 13-14 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 290 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP DSS \*Except\*  
 T4, T5: 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 B3, B5: 2x4 SP No.3  
 WEBS 2x4 SP No.3 \*Except\*  
 W13: 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-0-12 max.): 1-2, 3-5.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13  
 3-3-5 oc bracing: 11-12.  
 1 Row at midpt 4-15  
 1 Row at midpt 4-16, 5-13, 5-11

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

**REACTIONS.** (lb/size) 19=1204/0-4-0 (min. 0-1-15), 12=1981/0-4-0 (min. 0-2-14)  
 Max Horz 19=-317(LC 12)  
 Max Uplift 19=-129(LC 16), 12=-148(LC 17)  
 Max Grav 19=1662(LC 40), 12=2433(LC 41)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-19=-1595/228, 1-20=-1910/270, 2-20=-1907/271, 2-21=-1618/231, 3-21=-1532/266,  
 3-4=-1155/283, 4-22=-1264/270, 5-22=-1264/270, 5-23=-23/762, 6-23=-27/427,  
 6-24=-215/835, 7-24=-220/603, 7-25=-241/587, 8-25=-244/372  
 BOT CHORD 18-19=-229/275, 17-18=-229/275, 16-17=-200/1872, 16-26=-163/1255, 15-26=-162/1258,  
 4-15=-697/216, 11-12=-2411/624, 6-11=-712/310, 10-11=-127/296  
 WEBS 1-17=-280/2192, 2-17=-1047/241, 2-16=-850/222, 3-16=-71/774, 4-16=-268/361,  
 13-15=-76/493, 5-15=-168/1253, 8-11=-755/427, 11-13=-68/560, 5-11=-1702/315

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - The Fabrication Tolerance at joint 2 = 8%, joint 3 = 8%
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=129 12=148.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T19	Piggyback Base	1	1	CAN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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**NOTES-**

- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) 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 21-3743-A	Truss T20	Truss Type Piggyback Base	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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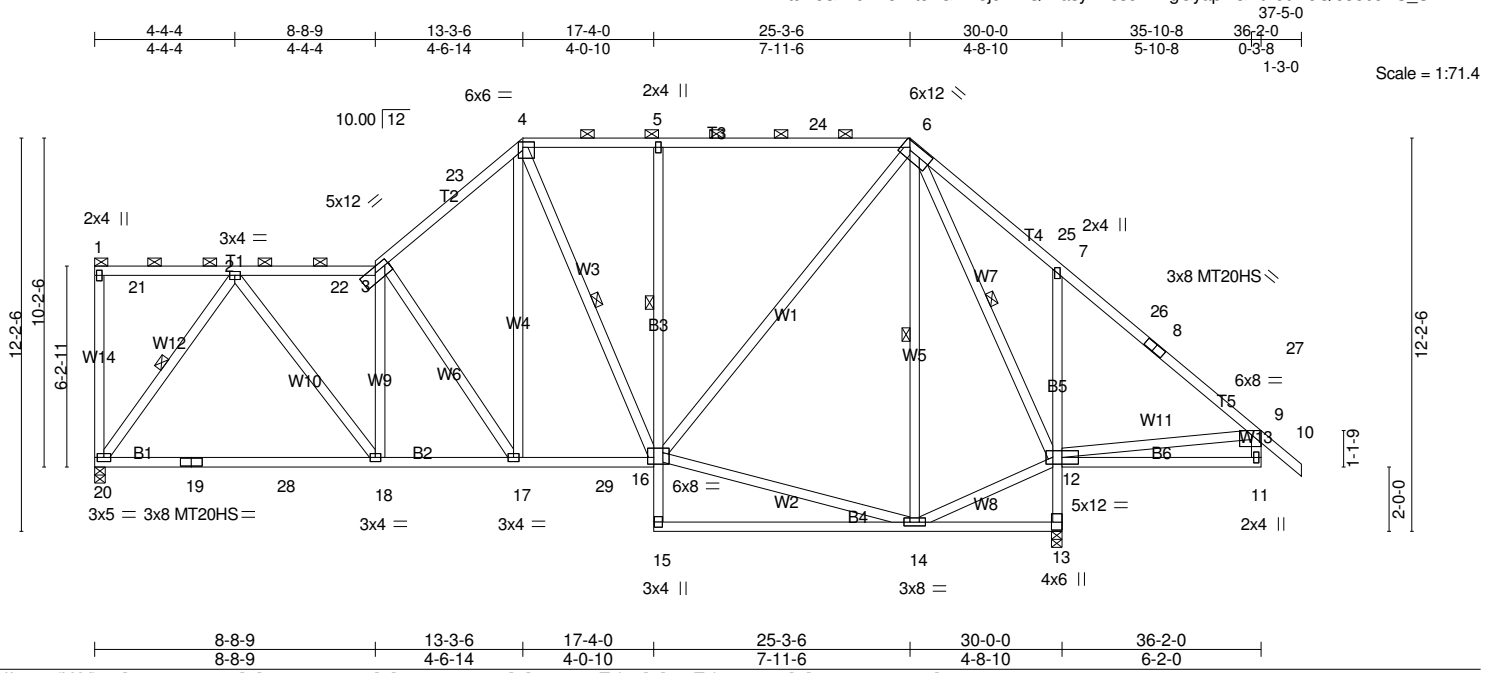


Plate Offsets (X,Y)-- [3:0-6-0-0-2-0], [4:0-4-4-0-2-0], [6:0-9-4-0-2-4], [9:0-3-8,Edge], [13:Edge,0-3-8], [16:0-2-4-0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.99	Vert(LL) -0.19	18-20	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.83	Vert(CT) -0.37	18-20	>956	240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.98	Horz(CT) 0.06	13	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 304 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2 \*Except\*  
 T3: 2x4 SP DSS  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 B3,B5: 2x4 SP No.3  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-11-1 max.): 1-3, 4-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 6-0-0 oc bracing: 13-14  
 3-3-14 oc bracing: 12-13.  
 1 Row at midpt 5-16  
 1 Row at midpt 2-20, 4-16, 6-14, 6-12

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

**REACTIONS.** (lb/size) 20=1204/0-4-0 (min. 0-2-2), 13=1981/0-4-0 (min. 0-2-13)  
 Max Horz 20=-338(LC 12)  
 Max Uplift 20=-144(LC 16), 13=-147(LC 17)  
 Max Grav 20=1796(LC 40), 13=2387(LC 41)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-22=-1743/253, 3-22=-1739/253, 3-23=-1688/278, 4-23=-1623/296, 4-5=-1291/269,  
 5-24=-1299/272, 6-24=-1299/272, 6-25=-22/761, 7-25=-27/427, 7-26=-215/835,  
 8-26=-220/603, 8-27=-241/587, 9-27=-244/372  
 BOT CHORD 19-20=-189/1084, 19-28=-189/1084, 18-28=-189/1084, 17-18=-176/1723, 17-29=-151/1228,  
 16-29=-151/1228, 5-16=-932/206, 12-13=-2365/623, 7-12=-713/310, 11-12=-127/296  
 WEBS 2-20=-1845/269, 2-18=-100/1085, 3-18=-704/184, 3-17=-813/187, 4-17=-111/718,  
 4-16=-327/163, 14-16=-74/510, 6-16=-164/1295, 9-12=-754/427, 12-14=-67/578,  
 6-12=-1701/315

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=144 13=147.

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T20	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:30 2021 Page 2  
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**NOTES-**

- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T21	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:31 2021 Page 1  
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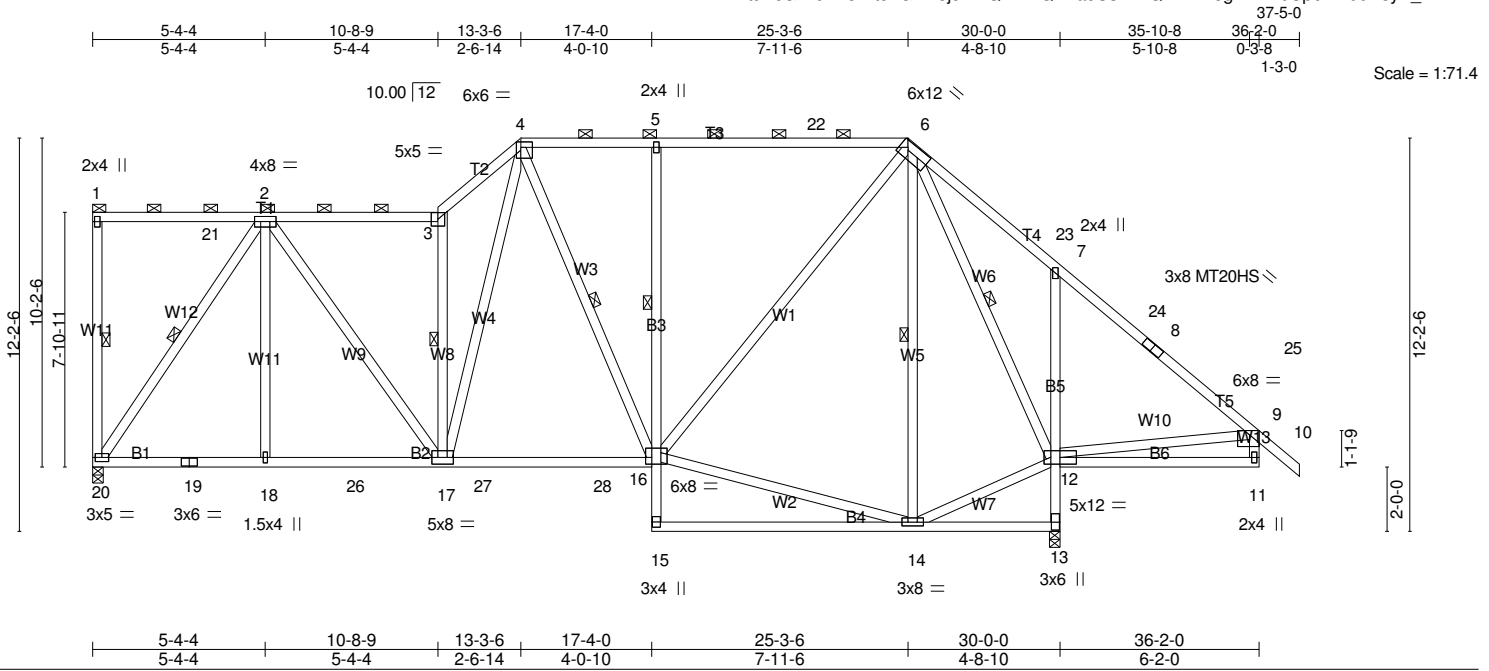


Plate Offsets (X,Y)-- [4:0-4-4,0-2-0], [6:0-9-4,0-2-4], [9:0-3-8,Edge], [16:0-2-4,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.99	Vert(LL)	-0.16 16-17	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.70	Vert(CT)	-0.26 14-15	>999	240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.99	Horz(CT)	0.06 13	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014							
							Weight: 314 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2 \*Except\*  
T3: 2x4 SP DSS  
BOT CHORD 2x4 SP No.2 \*Except\*  
B3,B5: 2x4 SP No.3  
WEBS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-1-0 max.): 1-3, 4-6.  
BOT CHORD Rigid ceiling directly applied or 3-4-8 oc bracing. Except:  
1 Row at midpt 5-16  
WEBS 1 Row at midpt 1-20, 2-20, 3-17, 4-16, 6-14, 6-12

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

**REACTIONS.**

(lb/size) 20=1204/0-4-0 (min. 0-2-4), 13=1981/0-4-0 (min. 0-2-12)  
Max Horz 20=-360(LC 12)  
Max Uplift 20=-201(LC 12), 13=-146(LC 17)  
Max Grav 20=1917(LC 41), 13=2329(LC 42)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-20=-256/73, 2-3=-1634/259, 3-4=-2169/405, 4-5=-1366/269, 5-22=-1373/272, 6-22=-1373/272, 6-23=-22/761, 7-23=-27/427, 7-24=-215/835, 8-24=-220/603, 8-25=-241/587, 9-25=-244/372  
BOT CHORD 19-20=-159/1120, 18-19=-159/1120, 18-26=-159/1120, 17-26=-159/1120, 17-27=-151/1318, 27-28=-151/1318, 16-28=-151/1318, 5-16=-934/203, 12-13=-2307/623, 7-12=-713/310, 11-12=-127/296  
WEBS 2-20=-1955/254, 2-18=0/264, 2-17=-126/878, 3-17=-1723/358, 4-17=-233/1175, 14-16=-70/559, 6-16=-162/1379, 9-12=-755/427, 12-14=-67/609, 6-12=-1726/314

**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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=201, 13=146.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T21	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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**NOTES-**

12) 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 21-3743-A	Truss T22	Truss Type Piggyback Base	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:32 2021 Page 1  
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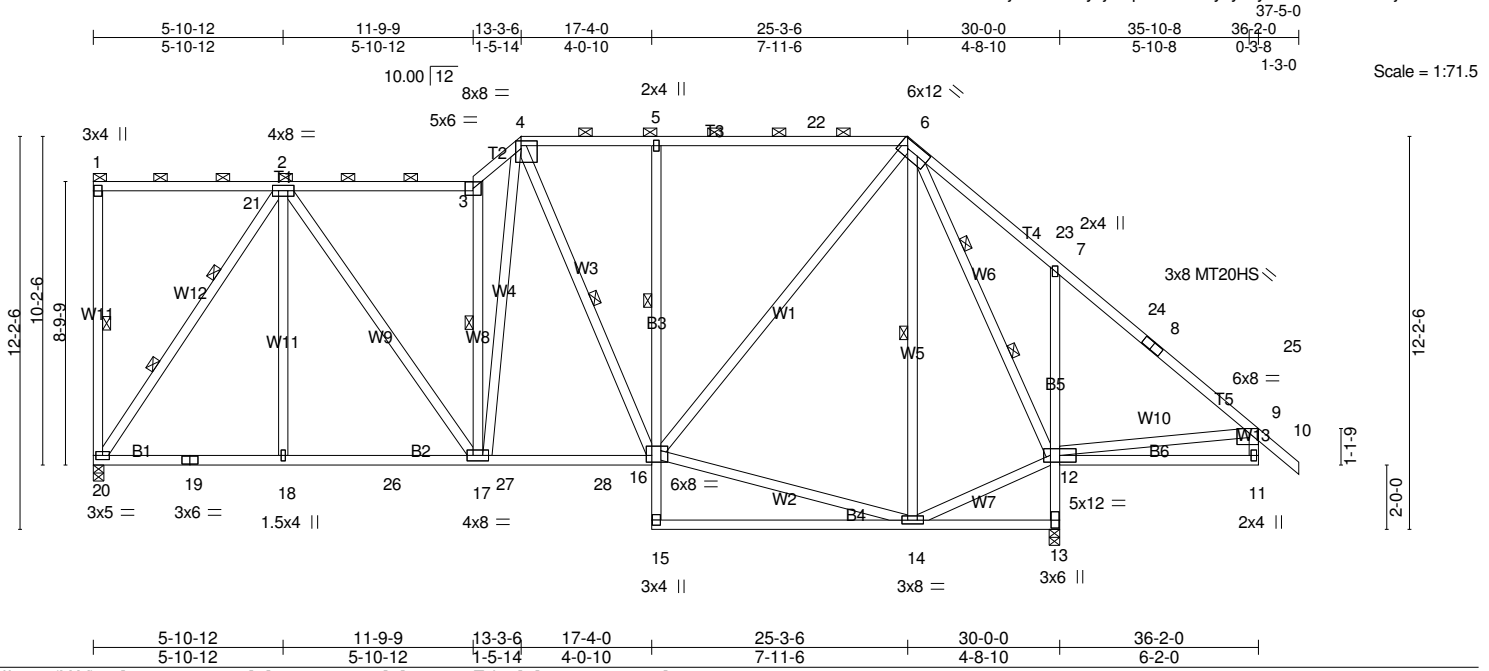


Plate Offsets (X,Y)-- [4:0-6-0,0-1-12], [6:0-9-4,0-2-4], [9:0-3-8,Edge], [16:0-2-0,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.99	Vert(LL) -0.12	16-17	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.71	Vert(CT) -0.26	14-15	>999	240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.84	Horz(CT) 0.06	13	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 320 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2 \*Except\*  
T1: 2x4 SP No.1, T3: 2x4 SP DSS  
BOT CHORD 2x4 SP No.2 \*Except\*  
B3,B5: 2x4 SP No.3  
WEBS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-8-6 max.): 1-3, 4-6.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14  
3-4-11 oc bracing: 12-13.  
1 Row at midpt 5-16  
1 Row at midpt 1-20, 3-17, 4-16, 6-14  
2 Rows at 1/3 pts 2-20, 6-12

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

**REACTIONS.** (lb/size) 20=1204/0-4-0 (min. 0-2-5), 13=1981/0-4-0 (min. 0-2-11)

Max Horz 20=-372(LC 12)  
Max Uplift 20=-232(LC 12), 13=-145(LC 17)  
Max Grav 20=1978(LC 41), 13=2304(LC 2)

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

TOP CHORD 1-20=-281/82, 2-3=-1584/265, 3-4=-2132/396, 4-5=-1410/269, 5-22=-1417/272,  
6-22=-1417/272, 6-23=-22/761, 7-23=-27/427, 7-24=-215/835, 8-24=-220/603,  
8-25=-241/587, 9-25=-244/372  
BOT CHORD 19-20=-148/1135, 18-19=-148/1135, 18-26=-148/1135, 17-26=-148/1135, 17-27=-148/1385,  
27-28=-148/1385, 16-28=-148/1385, 5-16=-927/204, 12-13=-2281/623, 7-12=-713/310,  
11-12=-127/296  
WEBS 2-20=-1986/268, 2-18=0/325, 2-17=-129/790, 3-17=-1746/355, 14-16=-73/556,  
6-16=-163/1427, 9-12=-755/427, 4-17=-238/1235, 12-14=-67/622, 6-12=-1759/314

**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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T22	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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**NOTES-**

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=232, 13=145.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T23	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:33 2021 Page 1  
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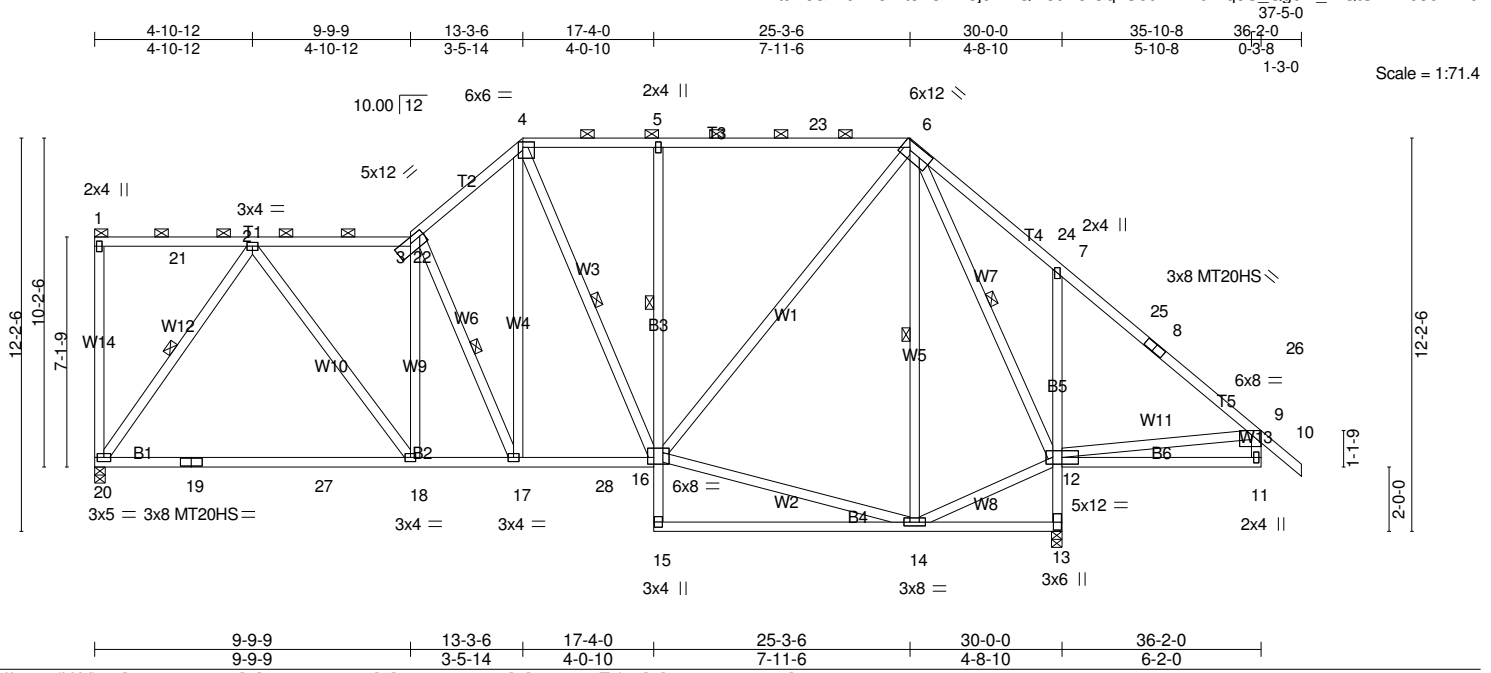


Plate Offsets (X,Y)--	[3:0-6-0-0-2-0], [4:0-4-4-0-2-0], [6:0-9-4-0-2-4], [9:0-3-8,Edge], [16:0-2-4-0-2-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.99	Vert(LL)	-0.26 18-20	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.71	Vert(CT)	-0.47 18-20	>751	240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.98	Horz(CT)	0.05 13	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 310 lb	FT = 20%

**LUMBER-**  
**TOP CHORD** 2x4 SP No.2 \*Except\*  
T3: 2x4 SP DSS  
**BOT CHORD** 2x4 SP No.3 \*Except\*  
B1: 2x4 SP No.1, B4,B6: 2x4 SP No.2, B2: 2x4 SP DSS  
**WEBS** 2x4 SP No.3

**BRACING-**  
**TOP CHORD** Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-8-11 max.): 1-3, 4-6.  
**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
6-0-0 oc bracing: 13-14  
3-4-3 oc bracing: 12-13.  
1 Row at midpt 5-16  
1 Row at midpt 2-20, 3-17, 4-16, 6-14, 6-12

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

**REACTIONS.** (lb/size) 20=1204/0-4-0 (min. 0-2-3), 13=1981/0-4-0 (min. 0-2-13)  
Max Horz 20=-350(LC 12)  
Max Uplift 20=-173(LC 12), 13=-146(LC 17)  
Max Grav 20=1863(LC 41), 13=2357(LC 42)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 2-22=-1691/251, 3-22=-1687/251, 3-4=-1753/314, 4-5=-1329/270, 5-23=-1336/272,  
6-23=-1336/272, 6-24=-22/761, 7-24=-27/427, 7-25=-215/835, 8-25=-220/603,  
8-26=-241/587, 9-26=-244/372  
**BOT CHORD** 19-20=-180/1086, 19-27=-180/1086, 18-27=-180/1086, 17-18=-164/1675, 17-28=-150/1275,  
16-28=-150/1275, 5-16=-936/204, 12-13=-2335/623, 7-12=-713/310, 11-12=-127/296  
**WEBS** 2-20=-1874/283, 2-18=-83/1016, 3-18=-628/192, 3-17=-888/179, 4-17=-143/823,  
4-16=-281/147, 14-16=-73/521, 6-16=-164/1336, 9-12=-754/427, 12-14=-67/591,  
6-12=-1701/315

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=173 13=146.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T23	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:33 2021 Page 2  
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**NOTES-**

- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T24	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:34 2021 Page 1  
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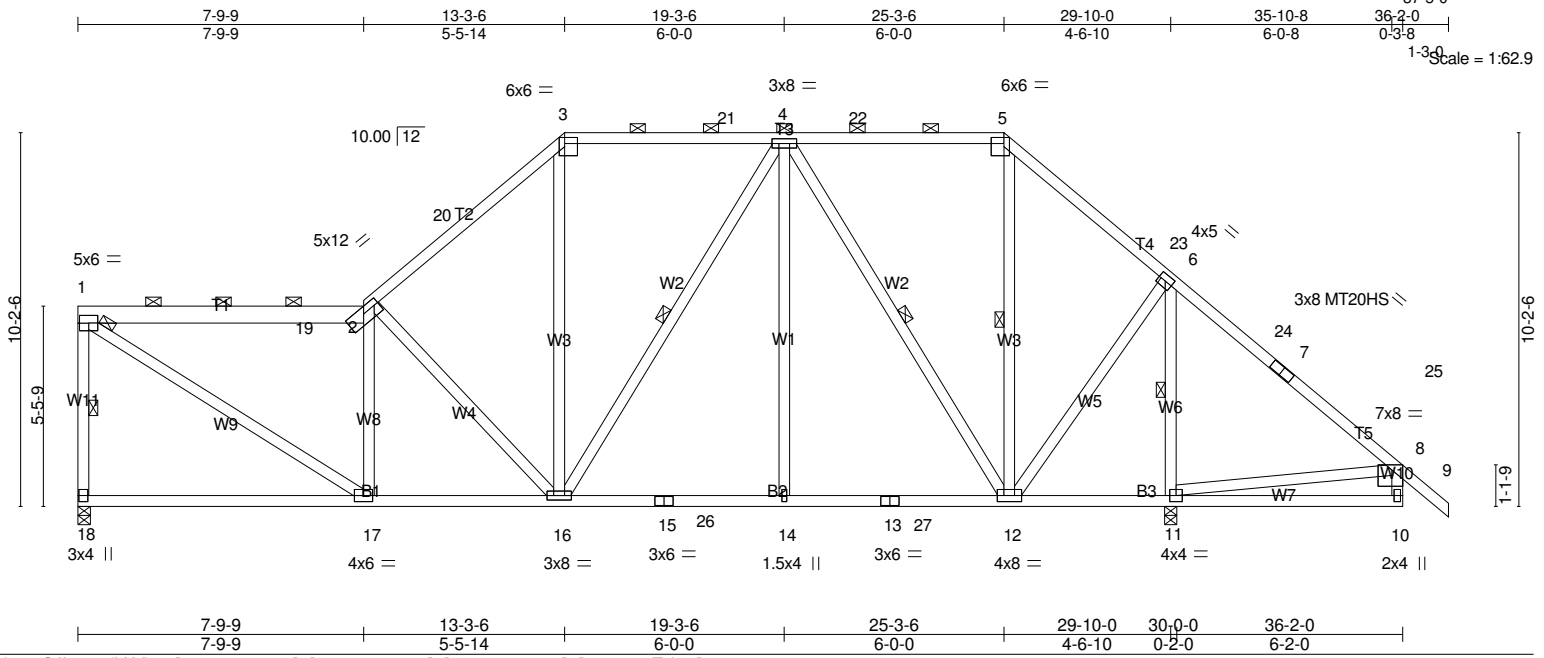


Plate Offsets (X,Y)-- [2:0-6-0,0-2-0], [3:0-4-4,0-2-0], [5:0-4-4,0-2-0], [8:0-3-8,Edge]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 1.00	Vert(LL) -0.12 17-18 >999 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.25 17-18 >999 240	MT20HS	187/143
TCDL 10.0	Rep Stress Incr YES	WB 0.87	Horz(CT) 0.04 11 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MS			
BCDL 10.0				Weight: 269 lb	FT = 20%

**LUMBER-**  
**TOP CHORD** 2x4 SP No.2 \*Except\*  
 T1: 2x6 SP 2400F 2.0E, T3: 2x4 SP No.1  
**BOT CHORD** 2x4 SP No.2  
**WEBS** 2x4 SP No.3

**BRACING-**  
**TOP CHORD** Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-7-14 max.): 1-2, 3-5.  
**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.  
**WEBS** 1 Row at midpt 1-18, 4-16, 4-12, 5-12, 6-11

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

**REACTIONS.** (lb/size) 18=1203/0-4-0 (min. 0-2-1), 11=1982/0-4-0 (min. 0-2-14)  
 Max Horz 18=-324(LC 12)  
 Max Uplift 18=-135(LC 16), 11=-147(LC 17)  
 Max Grav 18=1734(LC 40), 11=2411(LC 41)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 1-18=-1659/245, 1-19=-1810/261, 2-19=-1800/262, 2-20=-1651/260, 3-20=-1542/283,  
 3-21=-1200/282, 4-21=-1200/282, 4-22=-552/159, 5-22=-552/159, 5-23=-682/149,  
 6-23=-771/118, 6-24=-216/842, 7-24=-221/602, 7-25=-241/594, 8-25=-245/370  
**BOT CHORD** 17-18=-225/285, 16-17=-189/1776, 16-26=-144/1188, 15-26=-144/1188, 14-15=-144/1188,  
 13-14=-144/1188, 13-27=-144/1188, 12-27=-144/1188, 11-12=-456/314, 10-11=-135/317  
**WEBS** 1-17=-273/2112, 2-17=-1016/242, 2-16=-791/206, 3-16=-28/636, 4-16=-101/378,  
 4-14=0/367, 4-12=-1206/191, 6-12=-141/1277, 6-11=-2170/475, 8-11=-782/437

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 6) Provide adequate drainage to prevent water ponding.
  - 7) All plates are MT20 plates unless otherwise indicated.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=135, 11=147.
  - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T24	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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**LOAD CASE(S)** Standard

Job 21-3743-A	Truss T25	Truss Type Piggyback Base	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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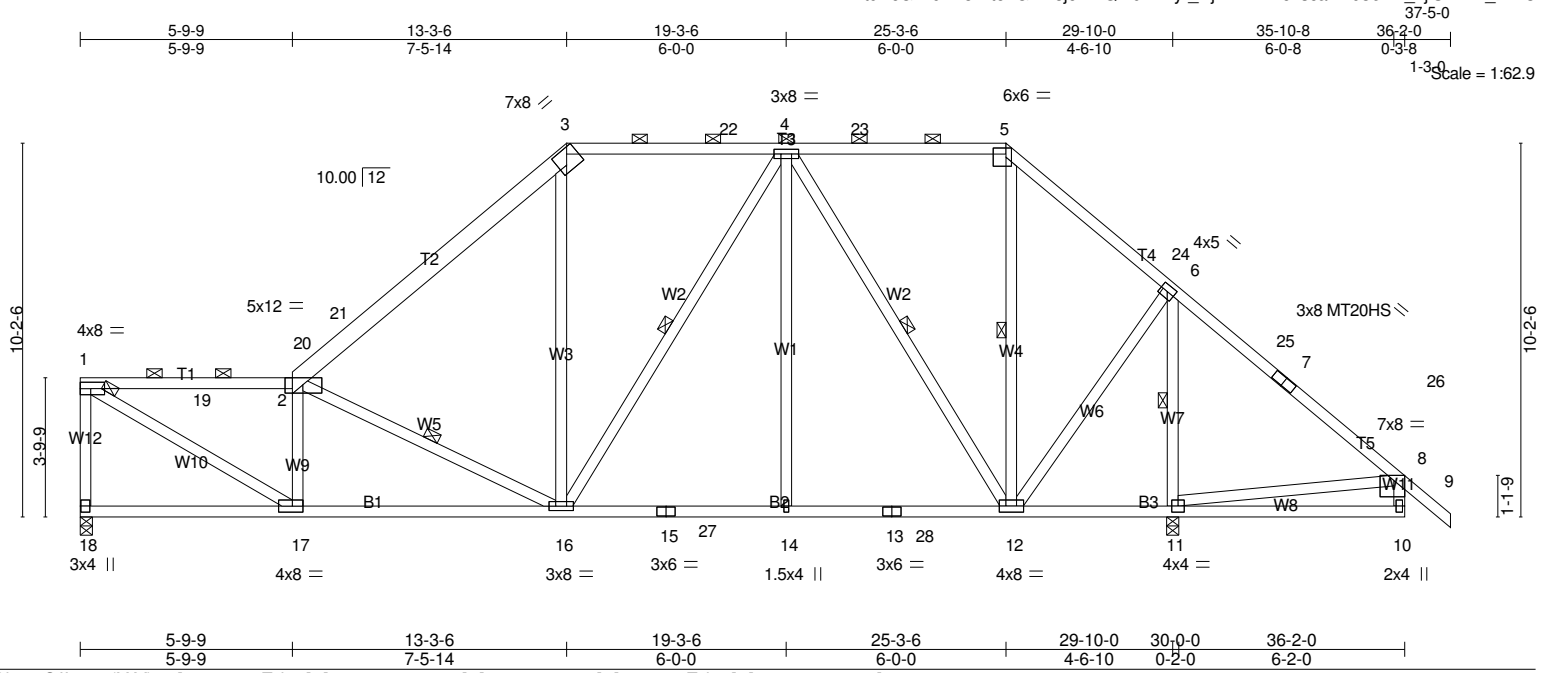


Plate Offsets (X,Y)-- [2:0-5-13,Edge], [3:0-4-14,0-1-14], [5:0-4-4,0-2-0], [8:0-3-8,Edge], [17:0-3-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.64	Vert(LL) -0.10 16-17 >999 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.95	Vert(CT) -0.21 16-17 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 263 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1 \*Except\*  
 T2: 2x6 SP No.2, T4,T5: 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 1-2, 3-5.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.  
 WEBS 1 Row at midpt 2-16, 4-16, 4-12, 5-12, 6-11

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

**REACTIONS.** (lb/size) 18=1203/0-4-0 (min. 0-1-14), 11=1982/0-4-0 (min. 0-2-14)  
 Max Horz 18=-308(LC 14)  
 Max Uplift 18=-124(LC 16), 11=-148(LC 17)  
 Max Grav 18=1595(LC 40), 11=2451(LC 41)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-18=-1538/213, 1-19=-2025/276, 2-19=-2025/276, 2-20=-1595/194, 20-21=-1578/201,  
 3-21=-1512/246, 3-22=-1141/282, 4-22=-1141/282, 4-23=-535/164, 5-23=-535/164,  
 5-24=-658/155, 6-24=-748/124, 6-25=-215/842, 7-25=-221/602, 7-26=-241/594,  
 8-26=-245/370  
 BOT CHORD 17-18=-235/273, 16-17=-205/1981, 16-27=-145/1153, 15-27=-145/1153, 14-15=-145/1153,  
 13-14=-145/1153, 13-28=-145/1153, 12-28=-145/1153, 11-12=-456/314, 10-11=-135/318  
 WEBS 1-17=-290/2302, 2-17=-1066/239, 2-16=-951/243, 3-16=-20/552, 4-16=-130/445,  
 4-14=0/358, 4-12=-1153/191, 6-12=-140/1254, 6-11=-2211/474, 8-11=-782/437

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=124, 11=148.
  - 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.

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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T25	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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**NOTES-**

12) 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 21-3743-A	Truss T26	Truss Type Piggyback Base Girder	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:37 2021 Page 1  
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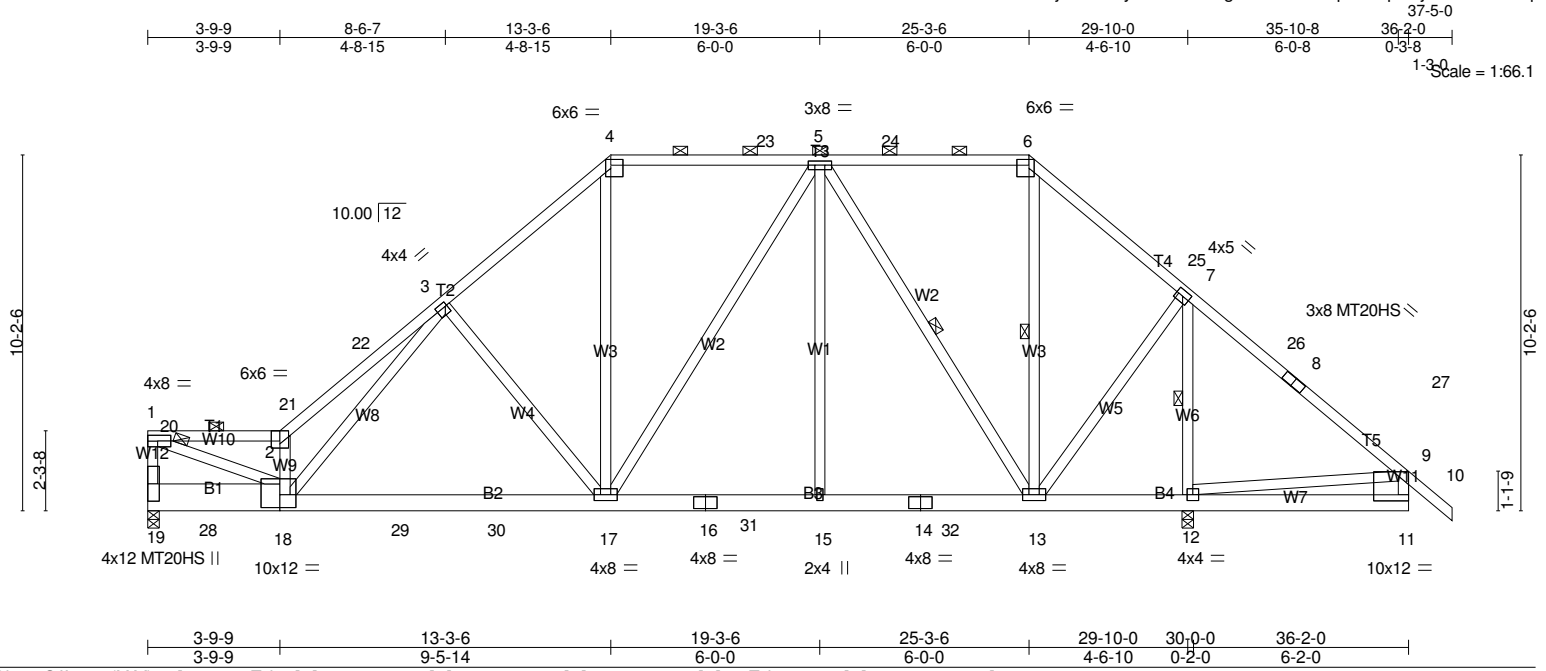


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-0-8,0-1-8], [4:0-4-4,0-2-0], [6:0-4-4,0-2-0], [11:Edge,0-8-8], [18:0-5-8,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.90	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.71	Vert(LL) -0.16 17-18 >999 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.99	Vert(CT) -0.36 17-18 >982 240		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.02 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 291 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* T2: 2x4 SP DSS, T3,T4: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-10-11 oc purlins, except end verticals, and 2-0-0 oc purlins (2-7-0 max.): 1-2, 4-6.
BOT CHORD 2x6 SP No.2 *Except* B1: 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
WEBS 2x4 SP No.3 *Except* W10,W8,W4,W11: 2x4 SP No.2	WEBS 1 Row at midpt 5-13, 6-13, 7-12
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 19=2626/0-4-0 (min. 0-3-6), 12=2058/0-4-0 (min. 0-3-0)  
Max Horz 19=-283(LC 12)  
Max Uplift 12=-74(LC 17)  
Max Grav 19=2868(LC 40), 12=2555(LC 41)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-19=-1848/0, 1-20=-3293/0, 2-20=-3293/0, 2-21=-4340/0, 21-22=-4267/0, 3-22=-4140/0, 3-4=-1718/127, 4-23=-1243/150, 5-23=-1243/150, 5-24=-560/130, 6-24=-560/130, 6-25=-692/111, 7-25=-781/79, 7-26=-217/834, 8-26=-222/594, 8-27=-243/585, 9-27=-246/362  
BOT CHORD 19-28=-135/364, 18-28=-200/298, 18-29=0/1753, 29-30=0/1753, 17-30=0/1753, 17-31=-63/1239, 16-31=-63/1239, 15-16=-63/1239, 14-15=-63/1239, 14-32=-63/1239, 13-32=-63/1239, 12-13=-450/316, 11-12=-124/313  
WEBS 1-18=0/3565, 2-18=-2972/0, 3-18=0/2466, 3-17=-1050/17, 4-17=0/720, 5-17=0/576, 5-15=0/305, 5-13=-1206/108, 7-13=-76/1293, 7-12=-2289/392, 9-12=-769/419

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T26	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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**NOTES-**

- 12) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1500 lb down at 1-7-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-66, 2-4=-66, 4-6=-66, 6-9=-66, 9-10=-66, 11-19=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-80, 2-4=-80, 4-6=-80, 6-9=-80, 9-10=-80, 11-19=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-65, 2-4=-65, 4-6=-65, 6-9=-65, 9-10=-65, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-55, 2-4=-55, 4-6=-55, 6-9=-55, 9-10=-55, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-55, 2-4=-55, 4-24=-55, 6-24=-72, 6-9=-30, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-30, 2-4=-30, 4-23=-73, 6-23=-55, 6-9=-55, 9-10=-55, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-4=-20, 4-6=-20, 6-9=-20, 9-10=-20, 11-19=-40  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=28, 2-4=24, 4-6=28, 6-9=24, 9-10=19, 12-19=-12, 11-12=23  
Horz: 1-19=16, 2-4=-36, 6-9=36, 9-10=31, 9-11=31  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=28, 2-4=24, 4-6=28, 6-9=24, 9-10=44, 12-19=-12, 11-12=23  
Horz: 1-19=-31, 2-4=-36, 6-9=36, 9-10=56, 9-11=-16  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-32, 2-4=-50, 4-6=-32, 6-9=-50, 9-10=-45, 12-19=-20, 11-12=-14  
Horz: 1-19=-19, 2-4=30, 6-9=-30, 9-10=-25, 9-11=-28  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-32, 2-4=-50, 4-6=-32, 6-9=-50, 9-10=5, 12-19=-20, 11-12=-14  
Horz: 1-19=28, 2-4=30, 6-9=-30, 9-10=25, 9-11=19  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=27, 2-4=-15, 4-6=27, 6-9=10, 9-10=4, 11-19=-12  
Horz: 1-19=16, 2-4=3, 6-9=22, 9-10=16, 9-11=20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=10, 2-4=10, 4-6=27, 6-9=-15, 9-10=-2, 12-19=-12, 11-12=6  
Horz: 1-19=-20, 2-4=-22, 6-9=-3, 9-10=10, 9-11=-16

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T26	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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**LOAD CASE(S)** Standard

- Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=8, 2-4=-34, 4-6=8, 6-9=-9, 9-10=-4, 11-19=-20  
Horz: 1-19=27, 2-4=14, 6-9=11, 9-10=16, 9-11=9  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-9, 2-4=-9, 4-6=8, 6-9=-34, 9-10=-28, 12-19=-20, 11-12=-2  
Horz: 1-19=-9, 2-4=-11, 6-9=-14, 9-10=-8, 9-11=-27  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=27, 2-4=27, 4-6=10, 6-9=10, 9-10=4, 11-19=-12  
Horz: 1-19=13, 2-4=-39, 6-9=22, 9-10=16, 9-11=19  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=10, 2-4=10, 4-6=10, 6-9=27, 9-10=21, 11-19=-12  
Horz: 1-19=-19, 2-4=-22, 6-9=39, 9-10=33, 9-11=-13  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 18) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=15, 2-4=15, 4-6=5, 6-9=5, 9-10=0, 11-19=-12  
Horz: 1-19=7, 2-4=-27, 6-9=17, 9-10=11, 9-11=15  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 19) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=5, 2-4=5, 4-6=5, 6-9=15, 9-10=9, 11-19=-12  
Horz: 1-19=-15, 2-4=-17, 6-9=27, 9-10=21, 9-11=-7  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 20) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=8, 2-4=8, 4-6=-9, 6-9=-9, 9-10=-4, 11-19=-20  
Horz: 1-19=24, 2-4=-28, 6-9=11, 9-10=16, 9-11=8  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 21) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-9, 2-4=-9, 4-6=-9, 6-9=8, 9-10=13, 11-19=-20  
Horz: 1-19=-8, 2-4=-11, 6-9=28, 9-10=33, 9-11=-24  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 22) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-4=-20, 4-6=-20, 6-9=-20, 9-10=-66, 11-19=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 23) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-66, 2-4=-66, 4-24=-66, 6-24=-89, 6-9=-34, 9-10=-34, 11-19=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 24) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-34, 2-4=-34, 4-23=-91, 6-23=-66, 6-9=-66, 9-10=-66, 11-19=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 25) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-4=-20, 4-6=-20, 6-9=-20, 9-10=-20, 19-29=-20, 29-30=-60, 30-31=-20, 31-32=-60, 11-32=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-34, 2-4=-65, 4-6=-34, 6-9=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7  
Concentrated Loads (lb)  
Vert: 28=-1500(F)

Continued on page 4

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T26	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:37 2021 Page 4  
ID:tuKcGkndK28Er51GwX8jcz2kQv-ywnbVetFSLg?0L?wkVv4fqaN1vvpSEj1w?PrCtz2izq

**LOAD CASE(S)** Standard

- 27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-47, 2-4=-47, 4-6=-34, 6-9=-65, 9-10=-61, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6  
Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 28) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-34, 2-4=-34, 4-6=-47, 6-9=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 29) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-47, 2-4=-47, 4-6=-47, 6-9=-34, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 30) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-44, 2-4=-75, 4-6=-44, 6-9=-57, 9-10=-53, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 31) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-57, 2-4=-57, 4-6=-44, 6-9=-75, 9-10=-71, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6  
Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 32) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-44, 2-4=-44, 4-6=-57, 6-9=-57, 9-10=-53, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 33) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-57, 2-4=-57, 4-6=-57, 6-9=-44, 9-10=-40, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 34) 3rd Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-20=-55, 2-20=-68, 2-4=-30, 4-24=-55, 6-24=-72, 6-9=-30, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 35) 4th Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-30, 2-22=-55, 4-22=-83, 4-6=-30, 6-9=-30, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 36) 5th Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-89, 2-4=-30, 4-6=-30, 6-9=-30, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 37) 6th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-30, 2-21=-58, 4-21=-55, 4-6=-30, 6-25=-72, 9-25=-55, 9-10=-55, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 38) 7th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-30, 2-4=-30, 4-23=-73, 6-23=-55, 6-9=-30, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 39) 8th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-30, 2-4=-30, 4-6=-30, 6-26=-84, 9-26=-55, 9-10=-55, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 40) 9th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-124, 2-4=-34, 4-6=-124, 6-9=-34, 9-10=-34, 11-19=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T26	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:37 2021 Page 5  
ID:tuKcKgKndK28Ert51GwX8jcz2kQv-ywnbVetFSLg?0L?wkVv4fqaN1vrpSEj1w?PrCtz2izq

**LOAD CASE(S)** Standard

- 41) 10th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-34, 2-4=-124, 4-6=-34, 6-27=-124, 9-27=-66, 9-10=-66, 11-19=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 42) 11th Unbal. Dead + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-20=-66, 2-20=-84, 2-4=-34, 4-24=-66, 6-24=-89, 6-9=-34, 9-10=-34, 11-19=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 43) 12th Unbal. Dead + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-34, 2-22=-66, 4-22=-104, 4-6=-34, 6-9=-34, 9-10=-34, 11-19=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 44) 13th Unbal. Dead + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-112, 2-4=-34, 4-6=-34, 6-9=-34, 9-10=-34, 11-19=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 45) 14th Unbal. Dead + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-34, 2-21=-70, 4-21=-66, 4-6=-34, 6-25=-89, 9-25=-66, 9-10=-66, 11-19=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 46) 15th Unbal. Dead + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-34, 2-4=-34, 4-23=-91, 6-23=-66, 6-9=-34, 9-10=-34, 11-19=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 47) 16th Unbal. Dead + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-34, 2-4=-34, 4-6=-34, 6-26=-105, 9-26=-66, 9-10=-66, 11-19=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 48) 17th Unbal. Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-98, 2-4=-30, 4-6=-98, 6-9=-30, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 49) 18th Unbal. Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-30, 2-4=-98, 4-6=-30, 6-27=-98, 9-27=-55, 9-10=-55, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 50) 19th Unbal. Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-77, 2-4=-41, 4-6=-77, 6-9=-22, 9-10=-18, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 51) 20th Unbal. Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-10, 2-4=-108, 4-6=-10, 6-27=-90, 9-27=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 52) 21st Unbal. Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-90, 2-4=-22, 4-6=-77, 6-9=-41, 9-10=-37, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6  
Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 53) 22nd Unbal. Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-22, 2-4=-90, 4-6=-10, 6-27=-108, 9-27=-65, 9-10=-61, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6  
Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 54) 23rd Unbal. Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60



Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T26	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:37 2021 Page 6  
ID:tuKcGkndK28Ert51GwX8jcz2kQv-ywnbVetFSLg?0L?wkVv4fqaN1vrpSEj1w?PrCtz2izq

**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-2=-77, 2-4=-10, 4-6=-90, 6-9=-22, 9-10=-18, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6

Concentrated Loads (lb)

Vert: 28=-1500(F)

55) 24th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-10, 2-4=-77, 4-6=-22, 6-27=-90, 9-27=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6

Concentrated Loads (lb)

Vert: 28=-1500(F)

56) 25th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-90, 2-4=-22, 4-6=-90, 6-9=-10, 9-10=-6, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18

Concentrated Loads (lb)

Vert: 28=-1500(F)

57) 26th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-22, 2-4=-90, 4-6=-22, 6-27=-77, 9-27=-34, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18

Concentrated Loads (lb)

Vert: 28=-1500(F)

58) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-80, 2-4=-80, 4-6=-80, 6-9=-20, 9-10=-20, 11-19=-20

Concentrated Loads (lb)

Vert: 28=-1500(F)

59) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-4=-20, 4-6=-80, 6-9=-80, 9-10=-80, 11-19=-20

Concentrated Loads (lb)

Vert: 28=-1500(F)

60) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-65, 2-4=-65, 4-6=-65, 6-9=-20, 9-10=-20, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Concentrated Loads (lb)

Vert: 28=-1500(F)

61) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-4=-20, 4-6=-65, 6-9=-65, 9-10=-65, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Concentrated Loads (lb)

Vert: 28=-1500(F)

62) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=28, 2-4=24, 4-6=28, 6-9=24, 9-10=19, 12-19=-12, 11-12=23

Horz: 1-19=16, 2-4=-36, 6-9=36, 9-10=31, 9-11=31

Concentrated Loads (lb)

Vert: 28=-1500(F)

63) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=28, 2-4=24, 4-6=28, 6-9=24, 9-10=44, 12-19=-12, 11-12=23

Horz: 1-19=-31, 2-4=-36, 6-9=36, 9-10=56, 9-11=-16

Concentrated Loads (lb)

Vert: 28=-1500(F)

64) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-32, 2-4=-50, 4-6=-32, 6-9=-50, 9-10=-45, 12-19=-20, 11-12=-14

Horz: 1-19=-19, 2-4=30, 6-9=-30, 9-10=-25, 9-11=-28

Concentrated Loads (lb)

Vert: 28=-1500(F)

65) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-32, 2-4=-50, 4-6=-32, 6-9=-50, 9-10=5, 12-19=-20, 11-12=-14

Horz: 1-19=28, 2-4=30, 6-9=-30, 9-10=25, 9-11=19

Concentrated Loads (lb)

Vert: 28=-1500(F)

66) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=27, 2-4=-15, 4-6=27, 6-9=10, 9-10=4, 11-19=-12

Horz: 1-19=16, 2-4=3, 6-9=22, 9-10=16, 9-11=20

Concentrated Loads (lb)

Vert: 28=-1500(F)

67) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=10, 2-4=10, 4-6=27, 6-9=-15, 9-10=-2, 12-19=-12, 11-12=6

Horz: 1-19=-20, 2-4=-22, 6-9=-3, 9-10=10, 9-11=-16

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T26	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:37 2021 Page 7  
ID:tuKcGkndK28Ert51GwX8jcz2kQv-ywnbVetFSLg?0L?wkVv4fqaN1vvpSEj1w?PrCtz2izq

**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 28=-1500(F)

68) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=8, 2-4=-34, 4-6=8, 6-9=-9, 9-10=-4, 11-19=-20

Horz: 1-19=27, 2-4=14, 6-9=11, 9-10=16, 9-11=9

Concentrated Loads (lb)

Vert: 28=-1500(F)

69) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-9, 2-4=-9, 4-6=8, 6-9=-34, 9-10=-28, 12-19=-20, 11-12=-2

Horz: 1-19=-9, 2-4=-11, 6-9=-14, 9-10=-8, 9-11=-27

Concentrated Loads (lb)

Vert: 28=-1500(F)

70) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=27, 2-4=27, 4-6=10, 6-9=10, 9-10=4, 11-19=-12

Horz: 1-19=13, 2-4=-39, 6-9=22, 9-10=16, 9-11=19

Concentrated Loads (lb)

Vert: 28=-1500(F)

71) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=10, 2-4=10, 4-6=10, 6-9=27, 9-10=21, 11-19=-12

Horz: 1-19=-19, 2-4=-22, 6-9=39, 9-10=33, 9-11=-13

Concentrated Loads (lb)

Vert: 28=-1500(F)

72) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=15, 2-4=15, 4-6=5, 6-9=5, 9-10=0, 11-19=-12

Horz: 1-19=7, 2-4=-27, 6-9=17, 9-10=11, 9-11=15

Concentrated Loads (lb)

Vert: 28=-1500(F)

73) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=5, 2-4=5, 4-6=5, 6-9=15, 9-10=9, 11-19=-12

Horz: 1-19=-15, 2-4=-17, 6-9=27, 9-10=21, 9-11=-7

Concentrated Loads (lb)

Vert: 28=-1500(F)

74) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=8, 2-4=8, 4-6=-9, 6-9=-9, 9-10=-4, 11-19=-20

Horz: 1-19=24, 2-4=-28, 6-9=11, 9-10=16, 9-11=8

Concentrated Loads (lb)

Vert: 28=-1500(F)

75) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-9, 2-4=-9, 4-6=-9, 6-9=8, 9-10=13, 11-19=-20

Horz: 1-19=-8, 2-4=-11, 6-9=28, 9-10=33, 9-11=-24

Concentrated Loads (lb)

Vert: 28=-1500(F)

76) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-65, 4-6=-34, 6-9=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7

Concentrated Loads (lb)

Vert: 28=-1500(F)

77) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-47, 2-4=-47, 4-6=-34, 6-9=-65, 9-10=-61, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6

Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20

Concentrated Loads (lb)

Vert: 28=-1500(F)

78) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 4-6=-47, 6-9=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6

Concentrated Loads (lb)

Vert: 28=-1500(F)

79) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-47, 2-4=-47, 4-6=-47, 6-9=-34, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18

Concentrated Loads (lb)

Vert: 28=-1500(F)

Continued on page 8

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T26	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:37 2021 Page 8  
ID:tuKcGkndK28Ert51GwX8jcz2kQv-ywnbVetFSLg?0L?wkVv4fqaN1vrpSEj1w?PrCtz2izq

**LOAD CASE(S)** Standard

- 80) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-44, 2-4=-75, 4-6=-44, 6-9=-57, 9-10=-53, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 81) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-57, 2-4=-57, 4-6=-44, 6-9=-75, 9-10=-71, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6  
Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 82) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-44, 2-4=-44, 4-6=-57, 6-9=-57, 9-10=-53, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 83) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-57, 2-4=-57, 4-6=-57, 6-9=-44, 9-10=-40, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 84) Reversal: 19th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-77, 2-4=-41, 4-6=-77, 6-9=-22, 9-10=-18, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 85) Reversal: 20th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-10, 2-4=-108, 4-6=-10, 6-27=-90, 9-27=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 86) Reversal: 21st Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-90, 2-4=-22, 4-6=-77, 6-9=-41, 9-10=-37, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6  
Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 87) Reversal: 22nd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-22, 2-4=-90, 4-6=-10, 6-27=-108, 9-27=-65, 9-10=-61, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6  
Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 88) Reversal: 23rd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-77, 2-4=-10, 4-6=-90, 6-9=-22, 9-10=-18, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 89) Reversal: 24th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-10, 2-4=-77, 4-6=-22, 6-27=-90, 9-27=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 90) Reversal: 25th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-90, 2-4=-22, 4-6=-90, 6-9=-10, 9-10=-6, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20  
Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18  
Concentrated Loads (lb)  
Vert: 28=-1500(F)
- 91) Reversal: 26th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T26	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:37 2021 Page 9  
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**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-2=-22, 2-4=-90, 4-6=-22, 6-27=-77, 9-27=-34, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18

Concentrated Loads (lb)

Vert: 28=-1500(F)

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T27	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:38 2021 Page 1  
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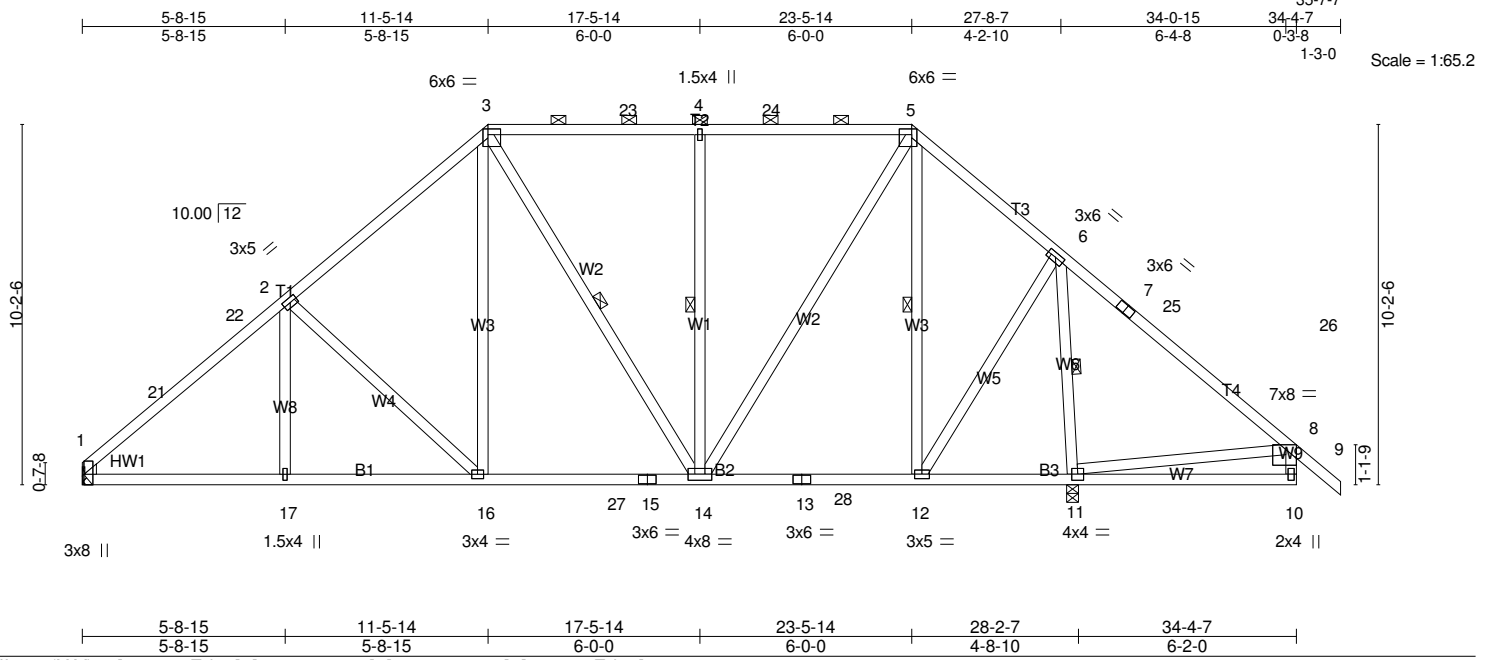


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [3:0-4-4,0-2-0], [5:0-4-4,0-2-0], [8:0-3-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.49	Vert(LL) -0.08 14-16 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.74	Vert(CT) -0.13 14-16 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) -0.04 1 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 240 lb	FT = 20%

**LUMBER-**  
**TOP CHORD** 2x4 SP No.1 \*Except\*  
T1: 2x4 SP No.2  
**BOT CHORD** 2x4 SP No.2  
**WEBS** 2x4 SP No.3 \*Except\*  
W9: 2x4 SP No.2  
**WEDGE**  
Left: 2x4 SP No.3

**BRACING-**  
**TOP CHORD** Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-13 max.): 3-5.  
**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.  
**WEBS** 1 Row at midpt 3-14, 4-14, 5-12, 6-11

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

**REACTIONS.** (lb/size) 11=1916/0-4-0 (min. 0-2-13), 1=1127/Mechanical  
Max Horz 11=263(LC 15)  
Max Uplift 11=223(LC 17), 1=143(LC 16)  
Max Grav 11=2408(LC 39), 1=1424(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 1-21=-1853/193, 21-22=-1690/204, 2-22=-1509/228, 2-3=-1359/277, 3-23=-1024/252, 4-23=-1024/252, 4-24=-1024/252, 5-24=-1024/252, 5-6=-680/175, 6-7=-216/877, 7-25=-220/688, 25-26=-248/618, 8-26=-252/378  
**BOT CHORD** 1-17=-75/1298, 16-17=-75/1298, 16-27=-32/948, 15-27=-32/948, 14-15=-32/948, 14-28=-136/570, 13-28=-136/570, 12-13=-136/570, 11-12=-413/272, 10-11=-157/366  
**WEBS** 2-16=-674/225, 3-16=-76/626, 3-14=-391/185, 4-14=-869/192, 5-14=-181/1015, 5-12=-855/186, 6-12=-115/1123, 6-11=-2162/465, 8-11=-850/470

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - 6) Provide adequate drainage to prevent water ponding.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 9) Refer to girder(s) for truss to truss connections.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=223, 1=143.
  - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T27	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:38 2021 Page 2  
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**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28	Piggyback Base	5	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:39 2021 Page 1  
ID:tuKcGkndK28Ert51GwX8jcz2kQv-uJvMwJuVzywjF9lrwxYkFgjoUtw9FKNJuyGlz2izo

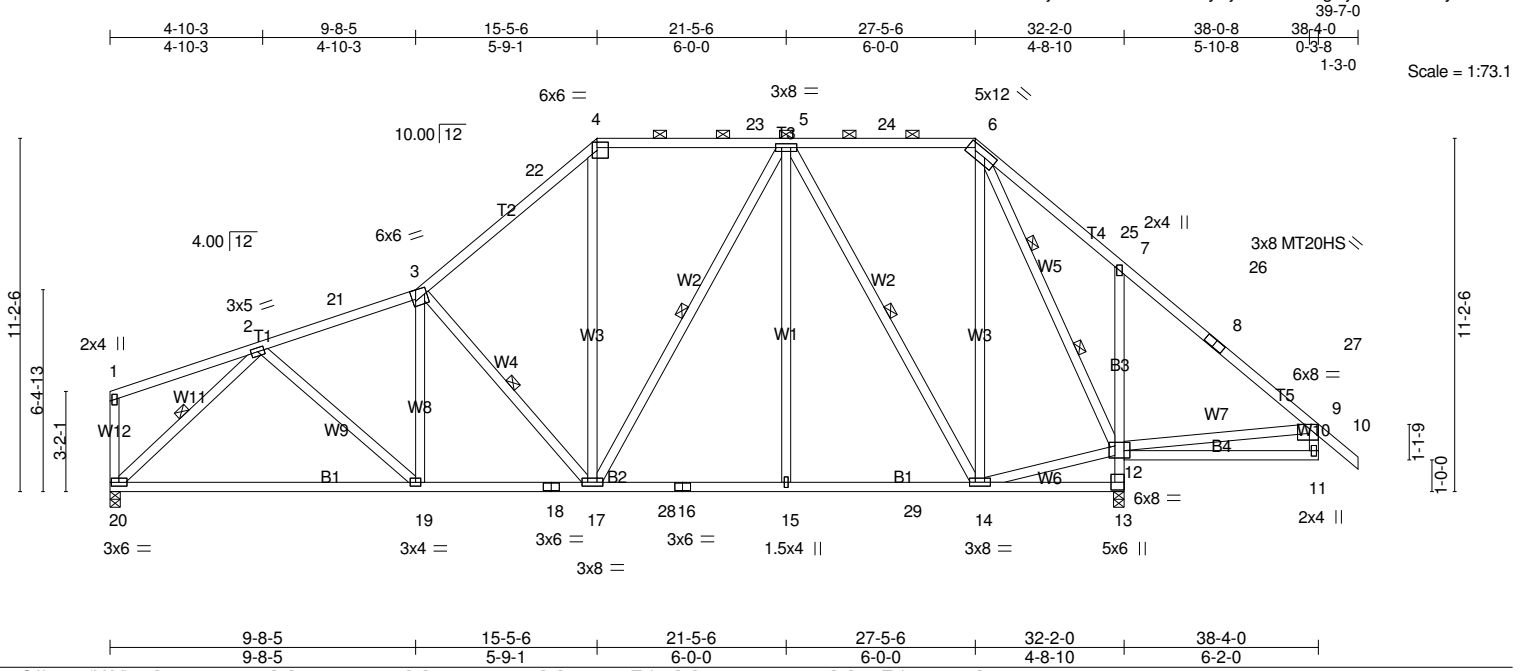


Plate Offsets (X,Y)-- [3:0-5-4,0-2-8], [4:0-4-4,0-2-0], [6:0-4-4,0-2-8], [9:0-3-8,Edge], [12:0-2-4,0-2-12], [13:Edge,0-3-8]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 1.00	Vert(LL) -0.25 19-20 >999 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.87	Vert(CT) -0.52 19-20 >742 240	MT20HS	187/143
TCDL 10.0	Rep Stress Incr YES	WB 0.92	Horz(CT) 0.06 13 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MS			
BCDL 10.0				Weight: 293 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except* T2,T3: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-11-11 max.): 4-6.
BOT CHORD 2x4 SP No.2 *Except* B3: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14 3-2-2 oc bracing: 12-13.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-17, 5-17, 5-14, 2-20 2 Rows at 1/3 pts 6-12

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

**REACTIONS.** (lb/size) 13=2069/0-4-0 (min. 0-2-15), 20=1302/0-4-0 (min. 0-1-13)  
Max Horz 20=287(LC 15)  
Max Uplift 13=-143(LC 17), 20=-138(LC 16)  
Max Grav 13=2492(LC 41), 20=1544(LC 58)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-21=-1874/302, 3-21=-1808/311, 3-22=-1601/314, 4-22=-1384/336, 4-23=-1112/329,  
5-23=-1112/329, 5-24=-502/200, 6-24=-502/200, 6-25=-26/752, 7-25=-35/418,  
7-26=-213/833, 8-26=-215/602, 8-27=-236/585, 9-27=-239/370  
BOT CHORD 19-20=-269/1363, 18-19=-212/1712, 17-18=-212/1712, 17-28=-147/1090, 16-28=-147/1090,  
15-16=-147/1090, 15-29=-147/1090, 14-29=-147/1090, 12-13=-2454/646, 7-12=-722/312,  
11-12=-123/293  
WEBS 2-19=0/530, 3-17=-877/248, 4-17=-66/519, 5-17=-124/465, 5-15=0/374, 5-14=-1164/204,  
6-14=-142/1002, 12-14=-92/649, 6-12=-1833/287, 2-20=-1834/329, 9-12=-750/418

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=143, 20=138.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T28	Piggyback Base	5	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:39 2021 Page 2  
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**NOTES-**

- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard



Job 21-3743-A	Truss T28GR	Truss Type Piggyback Base Girder	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:40 2021 Page 1  
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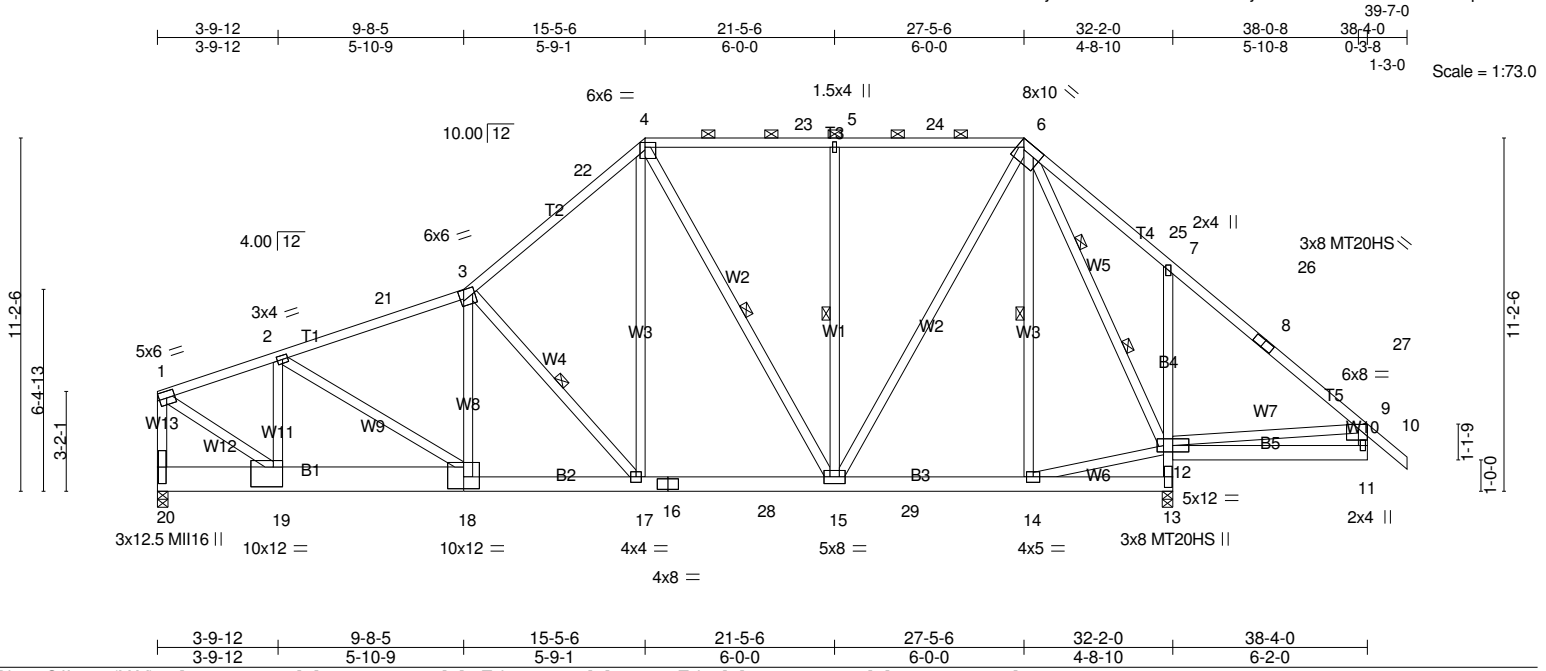


Plate Offsets (X,Y)-- [3:0-5-4,0-2-8], [4:0-4-0,0-1-12], [6:Edge,0-2-11], [9:0-3-8,Edge], [18:0-6-0,0-4-8], [19:0-3-8,0-7-8]					
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.96	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.59	Vert(LL) -0.07 17-18 >999 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.87	Vert(CT) -0.17 17-18 >999 240	MI16	174/126
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.03 13 n/a n/a	Weight: 341 lb	FT = 20%
BCDL 10.0	Code IRC2015/TPI2014				

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1 *Except* T2: 2x4 SP DSS, T5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-4 max.): 4-6.
BOT CHORD 2x6 SP No.2 *Except* B1: 2x10 SP No.2, B4: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14 2-11-2 oc bracing: 12-13.
WEBS 2x4 SP No.3 *Except* W12: 2x4 SP No.2	WEBS 1 Row at midpt 3-17, 4-15, 5-15, 6-14 2 Rows at 1/3 pts 6-12
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 20=2630/0-4-0 (min. 0-3-6), 13=2242/0-4-0 (min. 0-3-2)  
Max Horz 20=283(LC 15)  
Max Grav 20=2872(LC 58), 13=2664(LC 41)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-2647/0, 2-21=-2562/0, 3-21=-2473/0, 3-22=-1966/0, 4-22=-1749/0, 4-23=-1249/122,  
5-23=-1249/122, 5-24=-1249/122, 6-24=-1249/122, 6-25=-27753, 7-25=-35/418,  
7-26=-217/835, 8-26=-220/603, 8-27=-240/585, 9-27=-244/372, 1-20=-2720/0  
BOT CHORD 19-20=-253/187, 18-19=0/2481, 17-18=0/2357, 16-17=0/1381, 16-28=0/1381, 15-28=0/1381,  
15-29=0/660, 14-29=0/660, 12-13=-2622/475, 7-12=-726/312, 11-12=-114/290  
WEBS 2-19=-311/758, 2-18=-658/0, 3-18=0/471, 3-17=-1409/0, 4-17=0/1147, 4-15=-656/0,  
5-15=-865/192, 6-15=-4/1355, 12-14=-9/722, 6-12=-2001/120, 1-19=0/3036, 9-12=-746/405

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28GR	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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**NOTES-**

- 11) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1500 lb down at 3-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-66, 3-4=-66, 4-6=-66, 6-9=-66, 9-10=-66, 13-20=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-80, 3-4=-80, 4-6=-80, 6-9=-80, 9-10=-80, 13-20=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-65, 3-4=-65, 4-6=-65, 6-9=-65, 9-10=-65, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-55, 3-4=-55, 4-6=-55, 6-9=-55, 9-10=-55, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-55, 3-4=-55, 4-24=-55, 6-24=-72, 6-9=-30, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-30, 3-4=-30, 4-23=-75, 6-23=-55, 6-9=-55, 9-10=-55, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-20, 3-4=-20, 4-6=-20, 6-9=-20, 9-10=-20, 13-20=-40, 11-12=-40  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=31, 3-4=24, 4-6=28, 6-9=24, 9-10=19, 13-20=-12, 11-12=22  
Horz: 1-3=-43, 3-4=-36, 6-9=36, 9-10=31, 1-20=16, 9-11=30  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=31, 3-4=24, 4-6=28, 6-9=24, 9-10=44, 13-20=-12, 11-12=22  
Horz: 1-3=-43, 3-4=-36, 6-9=36, 9-10=56, 1-20=-30, 9-11=-16  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-35, 3-4=-50, 4-6=-32, 6-9=-50, 9-10=-45, 13-20=-20, 11-12=-14  
Horz: 1-3=15, 3-4=30, 6-9=30, 9-10=-25, 1-20=-19, 9-11=-27  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-35, 3-4=-50, 4-6=-32, 6-9=-50, 9-10=5, 13-20=-20, 11-12=-14  
Horz: 1-3=15, 3-4=30, 6-9=30, 9-10=25, 1-20=27, 9-11=19  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=27, 3-4=-15, 4-6=27, 6-9=10, 9-10=4, 13-20=-12, 11-12=-12  
Horz: 1-3=-39, 3-4=3, 6-9=22, 9-10=16, 1-20=16, 9-11=20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=14, 3-4=10, 4-6=27, 6-9=-15, 9-10=-2, 13-20=-12, 11-12=6  
Horz: 1-3=-26, 3-4=-22, 6-9=-3, 9-10=10, 1-20=-20, 9-11=-16

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T28GR	Piggyback Base Girder	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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**LOAD CASE(S)** Standard

- Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=8, 3-4=-34, 4-6=8, 6-9=-9, 9-10=-4, 13-20=-20, 11-12=-20  
Horz: 1-3=-28, 3-4=14, 6-9=11, 9-10=16, 1-20=27, 9-11=9  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-5, 3-4=-9, 4-6=8, 6-9=-34, 9-10=-28, 13-20=-20, 11-12=-2  
Horz: 1-3=-15, 3-4=-11, 6-9=-14, 9-10=-8, 1-20=-9, 9-11=-27  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=27, 3-4=27, 4-6=10, 6-9=10, 9-10=4, 13-20=-12, 11-12=-12  
Horz: 1-3=-39, 3-4=-39, 6-9=22, 9-10=16, 1-20=13, 9-11=19  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=10, 3-4=10, 4-6=10, 6-9=27, 9-10=21, 13-20=-12, 11-12=-12  
Horz: 1-3=-22, 3-4=-22, 6-9=39, 9-10=33, 1-20=-19, 9-11=-13  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 18) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=15, 3-4=15, 4-6=5, 6-9=5, 9-10=0, 13-20=-12, 11-12=-12  
Horz: 1-3=-27, 3-4=-27, 6-9=17, 9-10=11, 1-20=7, 9-11=15  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 19) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=5, 3-4=5, 4-6=5, 6-9=15, 9-10=9, 13-20=-12, 11-12=-12  
Horz: 1-3=-17, 3-4=-17, 6-9=27, 9-10=21, 1-20=-15, 9-11=-7  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 20) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=8, 3-4=8, 4-6=-9, 6-9=-9, 9-10=-4, 13-20=-20, 11-12=-20  
Horz: 1-3=-28, 3-4=-28, 6-9=11, 9-10=16, 1-20=24, 9-11=8  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 21) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-9, 3-4=-9, 4-6=-9, 6-9=8, 9-10=13, 13-20=-20, 11-12=-20  
Horz: 1-3=-11, 3-4=-11, 6-9=28, 9-10=33, 1-20=-8, 9-11=-24  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 22) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-20, 3-4=-20, 4-6=-20, 6-9=-20, 9-10=-66, 13-20=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 23) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-66, 3-4=-66, 4-24=-66, 6-24=-89, 6-9=-34, 9-10=-34, 13-20=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 24) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-34, 3-4=-34, 4-23=-94, 6-23=-66, 6-9=-66, 9-10=-66, 13-20=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 25) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-20, 3-4=-20, 4-6=-20, 6-9=-20, 9-10=-20, 17-20=-20, 17-28=-60, 28-29=-20, 14-29=-60, 13-14=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-34, 3-4=-65, 4-6=-34, 6-9=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7  
Concentrated Loads (lb)  
Vert: 19=-1500(F)

Continued on page 4

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28GR	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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**LOAD CASE(S)** Standard

- 27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-43, 3-4=-47, 4-6=-34, 6-9=-65, 9-10=-61, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6  
Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 28) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-34, 3-4=-34, 4-6=-47, 6-9=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 29) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-47, 3-4=-47, 4-6=-47, 6-9=-34, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 30) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-44, 3-4=-75, 4-6=-44, 6-9=-57, 9-10=-53, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 31) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-54, 3-4=-57, 4-6=-44, 6-9=-75, 9-10=-71, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6  
Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 32) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-44, 3-4=-44, 4-6=-57, 6-9=-57, 9-10=-53, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 33) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-57, 3-4=-57, 4-6=-57, 6-9=-44, 9-10=-40, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 34) 3rd Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-21=-55, 3-21=-61, 3-4=-30, 4-24=-55, 6-24=-72, 6-9=-30, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 35) 4th Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-30, 3-4=-83, 4-6=-30, 6-9=-30, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 36) 5th Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-80, 3-4=-30, 4-6=-30, 6-9=-30, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 37) 6th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-30, 3-22=-65, 4-22=-55, 4-6=-30, 6-25=-72, 9-25=-55, 9-10=-55, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 38) 7th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-30, 3-4=-30, 4-23=-75, 6-23=-55, 6-9=-30, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 39) 8th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-30, 3-4=-30, 4-6=-30, 6-26=-85, 9-26=-55, 9-10=-55, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 40) 9th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-34, 3-4=-34, 4-6=-124, 6-9=-34, 9-10=-34, 13-20=-20, 11-12=-20

Continued on page 5

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28GR	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:40 2021 Page 5  
ID:tuKcGkndK28Ert51GwX8jczk2kQv-MVSk7fv7kG2atojVPdSnHSCJ7uPfdKuczdVpCz2izn

**LOAD CASE(S)** Standard

- Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 41) 10th Unbal.Death + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-34, 3-4=-124, 4-6=-34, 6-27=-124, 9-27=-66, 9-10=-66, 13-20=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 42) 11th Unbal.Death + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-21=-66, 3-21=-74, 3-4=-34, 4-24=-66, 6-24=-89, 6-9=-34, 9-10=-34, 13-20=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 43) 12th Unbal.Death + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-34, 3-4=-104, 4-6=-34, 6-9=-34, 9-10=-34, 13-20=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 44) 13th Unbal.Death + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-99, 3-4=-34, 4-6=-34, 6-9=-34, 9-10=-34, 13-20=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 45) 14th Unbal.Death + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-34, 3-22=-80, 4-22=-66, 4-6=-34, 6-25=-89, 9-25=-66, 9-10=-66, 13-20=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 46) 15th Unbal.Death + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-34, 3-4=-34, 4-23=-94, 6-23=-66, 6-9=-34, 9-10=-34, 13-20=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 47) 16th Unbal.Death + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-34, 3-4=-34, 4-6=-34, 6-26=-107, 9-26=-66, 9-10=-66, 13-20=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 48) 17th Unbal.Death + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-30, 3-4=-30, 4-6=-98, 6-9=-30, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 49) 18th Unbal.Death + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-30, 3-4=-98, 4-6=-30, 6-27=-98, 9-27=-55, 9-10=-55, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 50) 19th Unbal.Death + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-10, 3-4=-41, 4-6=-77, 6-9=-22, 9-10=-18, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 51) 20th Unbal.Death + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-10, 3-4=-108, 4-6=-10, 6-27=-90, 9-27=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 52) 21st Unbal.Death + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-19, 3-4=-22, 4-6=-77, 6-9=-41, 9-10=-37, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6  
Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 53) 22nd Unbal.Death + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-19, 3-4=-90, 4-6=-10, 6-27=-108, 9-27=-65, 9-10=-61, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6  
Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28GR	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:40 2021 Page 6  
ID:tuKcGkndK28Ert51GwX8jcz2kQv-MVSk7v7kG2atojVPdSnHSCUJ7uPfdKuczdVpCz2izn

**LOAD CASE(S)** Standard

- 54) 23rd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-10, 3-4=-10, 4-6=-90, 6-9=-22, 9-10=-18, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 55) 24th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-10, 3-4=-77, 4-6=-22, 6-27=-90, 9-27=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 56) 25th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-22, 3-4=-22, 4-6=-90, 6-9=-10, 9-10=-6, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 57) 26th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-22, 3-4=-90, 4-6=-22, 6-27=-77, 9-27=-34, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 58) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-80, 3-4=-80, 4-6=-80, 6-9=-20, 9-10=-20, 13-20=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 59) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-20, 3-4=-20, 4-6=-80, 6-9=-80, 9-10=-80, 13-20=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 60) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-65, 3-4=-65, 4-6=-65, 6-9=-20, 9-10=-20, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 61) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-20, 3-4=-20, 4-6=-65, 6-9=-65, 9-10=-65, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 62) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=31, 3-4=24, 4-6=28, 6-9=24, 9-10=19, 13-20=-12, 11-12=22  
Horz: 1-3=-43, 3-4=-36, 6-9=36, 9-10=31, 1-20=16, 9-11=30  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 63) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=31, 3-4=24, 4-6=28, 6-9=24, 9-10=44, 13-20=-12, 11-12=22  
Horz: 1-3=-43, 3-4=-36, 6-9=36, 9-10=56, 1-20=-30, 9-11=-16  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 64) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-35, 3-4=-50, 4-6=-32, 6-9=-50, 9-10=-45, 13-20=-20, 11-12=-14  
Horz: 1-3=15, 3-4=30, 6-9=-30, 9-10=-25, 1-20=-19, 9-11=-27  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 65) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=-35, 3-4=-50, 4-6=-32, 6-9=-50, 9-10=5, 13-20=-20, 11-12=-14  
Horz: 1-3=15, 3-4=30, 6-9=-30, 9-10=25, 1-20=27, 9-11=19  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 66) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-3=27, 3-4=-15, 4-6=27, 6-9=10, 9-10=4, 13-20=-12, 11-12=-12  
Horz: 1-3=-39, 3-4=3, 6-9=22, 9-10=16, 1-20=16, 9-11=20  
Concentrated Loads (lb)  
Vert: 19=-1500(F)
- 67) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28GR	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:40 2021 Page 7  
ID:tuKcGkndK28Ert51GwX8jcz2kQv-MVSk7iv7kG2atojVPdSnHSCJ7uPfdKUcZdVpCz2izn

**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-3=14, 3-4=10, 4-6=27, 6-9=-15, 9-10=-2, 13-20=-12, 11-12=6

Horz: 1-3=-26, 3-4=-22, 6-9=-3, 9-10=10, 1-20=-20, 9-11=-16

Concentrated Loads (lb)

Vert: 19=-1500(F)

68) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=8, 3-4=-34, 4-6=8, 6-9=-9, 9-10=-4, 13-20=-20, 11-12=-20

Horz: 1-3=-28, 3-4=14, 6-9=11, 9-10=16, 1-20=27, 9-11=9

Concentrated Loads (lb)

Vert: 19=-1500(F)

69) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-5, 3-4=-9, 4-6=8, 6-9=-34, 9-10=-28, 13-20=-20, 11-12=-2

Horz: 1-3=15, 3-4=-11, 6-9=-14, 9-10=-8, 1-20=-9, 9-11=-27

Concentrated Loads (lb)

Vert: 19=-1500(F)

70) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=27, 3-4=27, 4-6=10, 6-9=10, 9-10=4, 13-20=-12, 11-12=-12

Horz: 1-3=-39, 3-4=-39, 6-9=22, 9-10=16, 1-20=13, 9-11=19

Concentrated Loads (lb)

Vert: 19=-1500(F)

71) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=10, 3-4=10, 4-6=10, 6-9=27, 9-10=21, 13-20=-12, 11-12=-12

Horz: 1-3=-22, 3-4=-22, 6-9=39, 9-10=33, 1-20=-19, 9-11=-13

Concentrated Loads (lb)

Vert: 19=-1500(F)

72) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=15, 3-4=15, 4-6=5, 6-9=5, 9-10=0, 13-20=-12, 11-12=-12

Horz: 1-3=-27, 3-4=-27, 6-9=17, 9-10=11, 1-20=7, 9-11=15

Concentrated Loads (lb)

Vert: 19=-1500(F)

73) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=5, 3-4=5, 4-6=5, 6-9=15, 9-10=9, 13-20=-12, 11-12=-12

Horz: 1-3=-17, 3-4=-17, 6-9=27, 9-10=21, 1-20=-15, 9-11=-7

Concentrated Loads (lb)

Vert: 19=-1500(F)

74) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=8, 3-4=8, 4-6=-9, 6-9=-9, 9-10=-4, 13-20=-20, 11-12=-20

Horz: 1-3=-28, 3-4=-28, 6-9=11, 9-10=16, 1-20=24, 9-11=8

Concentrated Loads (lb)

Vert: 19=-1500(F)

75) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-9, 3-4=-9, 4-6=-9, 6-9=8, 9-10=13, 13-20=-20, 11-12=-20

Horz: 1-3=-11, 3-4=-11, 6-9=28, 9-10=33, 1-20=-8, 9-11=-24

Concentrated Loads (lb)

Vert: 19=-1500(F)

76) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-34, 3-4=-65, 4-6=-34, 6-9=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20

Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7

Concentrated Loads (lb)

Vert: 19=-1500(F)

77) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-43, 3-4=-47, 4-6=-34, 6-9=-65, 9-10=-61, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6

Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20

Concentrated Loads (lb)

Vert: 19=-1500(F)

78) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-34, 3-4=-34, 4-6=-47, 6-9=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20

Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6

Concentrated Loads (lb)

Vert: 19=-1500(F)

79) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-34, 3-4=-34, 4-6=-47, 6-9=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20

Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6

Concentrated Loads (lb)

Vert: 19=-1500(F)

79) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28GR	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-3=-47, 3-4=-47, 4-6=-47, 6-9=-34, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18

Concentrated Loads (lb)

Vert: 19=-1500(F)

80) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-44, 3-4=-75, 4-6=-44, 6-9=-57, 9-10=-53, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7

Concentrated Loads (lb)

Vert: 19=-1500(F)

81) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-54, 3-4=-57, 4-6=-44, 6-9=-75, 9-10=-71, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6  
Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20

Concentrated Loads (lb)

Vert: 19=-1500(F)

82) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-44, 3-4=-44, 4-6=-57, 6-9=-57, 9-10=-53, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6

Concentrated Loads (lb)

Vert: 19=-1500(F)

83) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-57, 3-4=-57, 4-6=-57, 6-9=-44, 9-10=-40, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18

Concentrated Loads (lb)

Vert: 19=-1500(F)

84) Reversal: 19th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-10, 3-4=-41, 4-6=-77, 6-9=-22, 9-10=-18, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7

Concentrated Loads (lb)

Vert: 19=-1500(F)

85) Reversal: 20th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-10, 3-4=-108, 4-6=-10, 6-27=-90, 9-27=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7

Concentrated Loads (lb)

Vert: 19=-1500(F)

86) Reversal: 21st Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-19, 3-4=-22, 4-6=-77, 6-9=-41, 9-10=-37, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6  
Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20

Concentrated Loads (lb)

Vert: 19=-1500(F)

87) Reversal: 22nd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-19, 3-4=-90, 4-6=-10, 6-27=-108, 9-27=-65, 9-10=-61, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6  
Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20

Concentrated Loads (lb)

Vert: 19=-1500(F)

88) Reversal: 23rd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-10, 3-4=-10, 4-6=-90, 6-9=-22, 9-10=-18, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6

Concentrated Loads (lb)

Vert: 19=-1500(F)

89) Reversal: 24th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-10, 3-4=-77, 4-6=-22, 6-27=-90, 9-27=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20  
Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6

Concentrated Loads (lb)

Vert: 19=-1500(F)

90) Reversal: 25th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60



Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28GR	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-3=-22, 3-4=-22, 4-6=-90, 6-9=-10, 9-10=-6, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20

Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18

Concentrated Loads (lb)

Vert: 19=-1500(F)

91) Reversal: 26th Unbal. Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-22, 3-4=-90, 4-6=-22, 6-27=-77, 9-27=-34, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20

Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18

Concentrated Loads (lb)

Vert: 19=-1500(F)

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T29	Piggyback Base Structural Gable COMMON	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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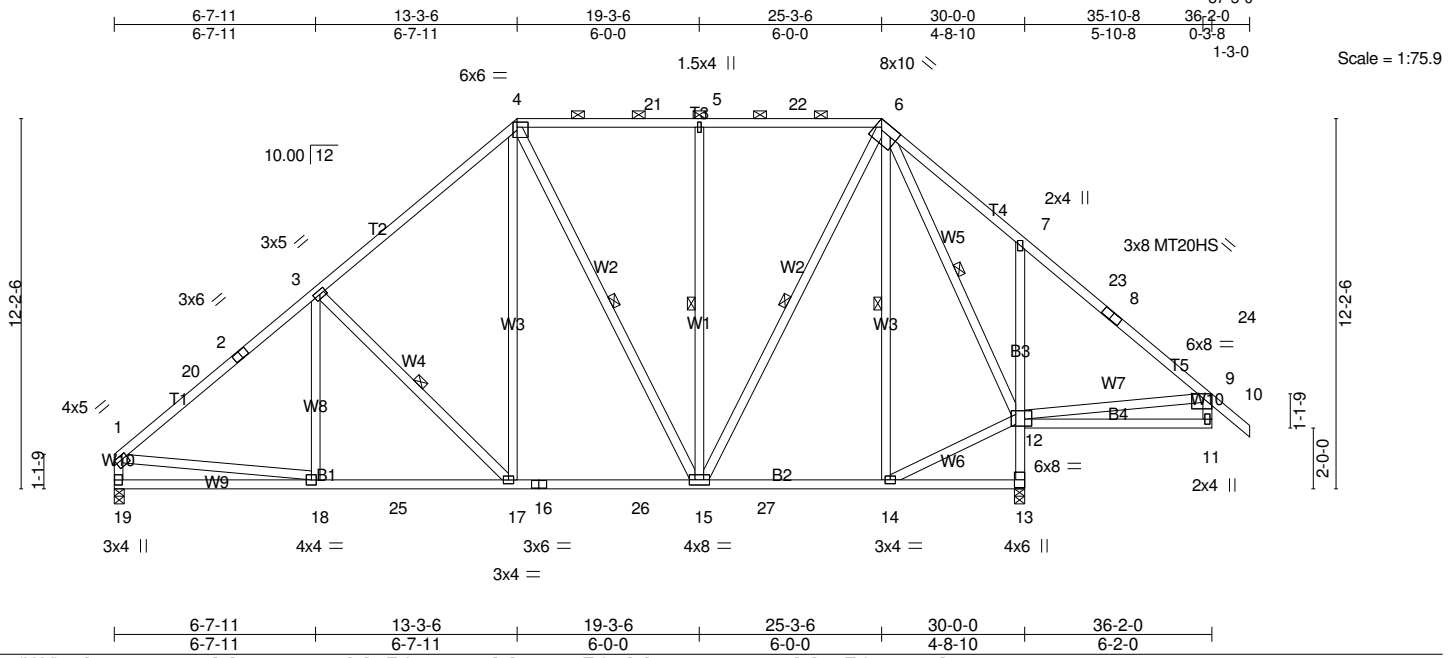


Plate Offsets (X,Y)-- [1:0-1-12,0-1-8], [4:0-4-4,0-2-0], [6:Edge,0-2-11], [9:0-3-8,Edge], [12:0-2-12,0-2-12], [13:Edge,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 1.00	Vert(LL)	-0.08	15-17	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.52	Vert(CT)	-0.13	15-17	>999	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.94	Horz(CT)	0.03	13	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 287 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* T4, T5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-4-10 max.): 4-6.
BOT CHORD 2x4 SP No.2 *Except* B3: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14 3-2-14 oc bracing: 12-13.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-17, 4-15, 5-15, 6-15, 6-14, 6-12

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

**REACTIONS.** (lb/size) 19=1204/0-4-0 (min. 0-1-12), 13=1981/0-4-0 (min. 0-2-15)  
Max Horz 19=-302(LC 14)  
Max Uplift 19=-147(LC 16), 13=-214(LC 17)  
Max Grav 19=1485(LC 39), 13=2490(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-20=-1791/198, 2-20=-1655/199, 2-3=-1434/227, 3-4=-1337/311, 4-21=-911/284,  
5-21=-911/284, 5-22=-911/284, 6-22=-911/284, 6-7=-32/756, 7-23=-215/834,  
8-23=-220/603, 8-24=-241/586, 9-24=-244/371, 1-19=-1422/196  
BOT CHORD 18-19=-290/409, 18-25=-234/1366, 17-25=-234/1366, 16-17=-151/931, 16-26=-151/931,  
15-26=-151/931, 15-27=-67/498, 14-27=-67/498, 12-13=-2454/632, 7-12=-720/307,  
11-12=-125/294  
WEBS 3-17=-701/249, 4-17=-100/713, 4-15=-502/117, 5-15=-868/192, 6-15=-177/1041,  
12-14=-81/571, 6-12=-1674/315, 1-18=-14/1079, 9-12=-752/425

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=147, 13=214.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T29	Piggyback Base Structural Gable COMMON	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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**NOTES-**

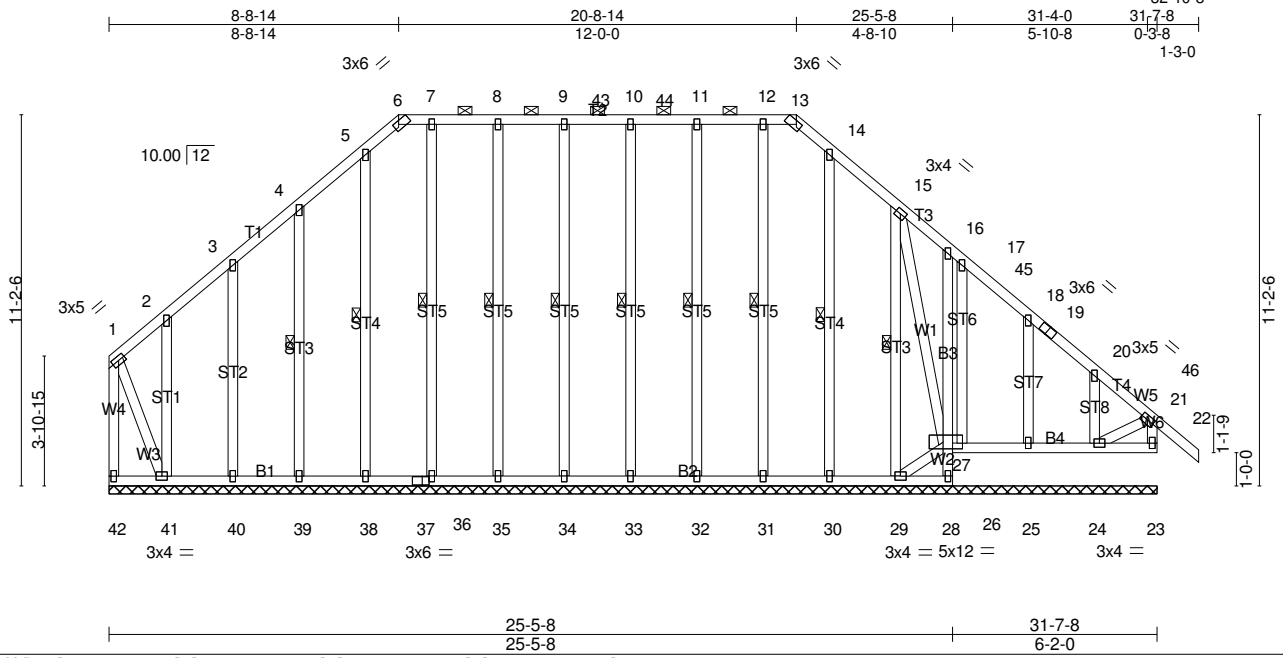
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job 21-3743-A	Truss T30	Truss Type GABLE COMMON	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:69.5

Plate Offsets (X,Y)-- [6:0-3-0,0-0-4], [13:0-3-0,0-0-4], [26:0-7-0,0-2-8], [37:0-2-6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.19	Vert(LL)	-0.01	22	n/r	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	-0.01	22	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Horz(CT)	0.01	23	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 325 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 B3: 2x4 SP No.3  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**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.): 6-13.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 27-28,26-27,25-26,24-25,23-24.  
 WEBS 1 Row at midpt 9-34, 8-35, 7-36, 5-38, 4-39, 10-33, 11-32, 12-31, 14-30, 15-29

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

**REACTIONS.** All bearings 31-7-8.  
 (lb) - Max Horz 42=-325(LC 14)  
 Max Uplift All uplift 100 lb or less at joint(s) 28, 23, 34, 35, 38, 39, 40, 33, 32, 31, 30, 26, 25 except 42=-312(LC 14), 41=-322(LC 13), 29=-218(LC 17), 24=-173(LC 17)  
 Max Grav All reactions 250 lb or less at joint(s) 28, 26 except 42=365(LC 13), 23=278(LC 30), 34=287(LC 38), 35=293(LC 38), 36=257(LC 38), 38=259(LC 39), 39=293(LC 39), 40=289(LC 39), 41=456(LC 47), 33=287(LC 38), 32=293(LC 38), 31=258(LC 38), 30=260(LC 39), 29=268(LC 49), 25=299(LC 39), 24=289(LC 49)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-42=-344/308, 21-23=-263/116  
 BOT CHORD 41-42=-253/283  
 WEBS 8-35=-253/75, 4-39=-253/124, 11-32=-253/75, 18-25=-263/115, 1-41=-311/320

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T30	GABLE COMMON	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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**NOTES-**

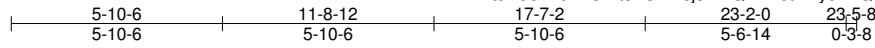
- 13) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 23, 34, 35, 38, 39, 40, 33, 32, 31, 30, 26, 25 except (jt=lb) 42=312, 41=322, 29=218, 24=173.
- 15) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 23, 26, 25, 24.
- 16) 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.
- 17) 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 21-3743-A	Truss T31	Truss Type Common	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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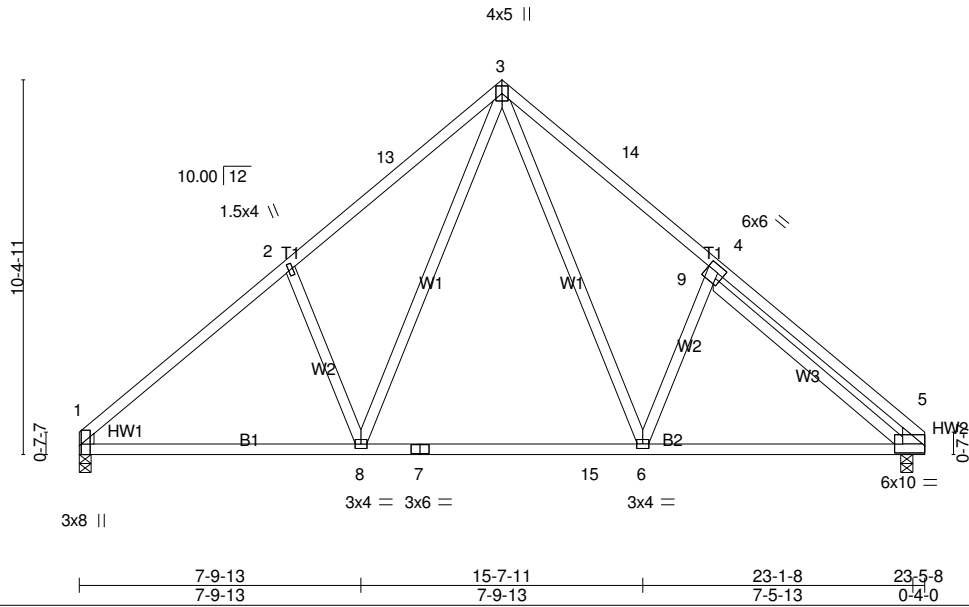


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [4:0-2-3,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.64	Vert(LL)	-0.20	6-8	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.67	Vert(CT)	-0.26	6-8	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.43	Horz(CT)	0.04	5	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 140 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 WEDGE  
 Left: 2x4 SP No.3 , Right: 2x6 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-0-14 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) 1=1010/0-4-0 (min. 0-1-8), 5=1010/0-4-0 (min. 0-1-8)  
 Max Horz 1=-248(LC 12)  
 Max Uplift 1=-87(LC 16), 5=-86(LC 17)  
 Max Grav 1=1171(LC 2), 5=1171(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1480/229, 2-13=-1331/333, 3-13=-1166/354, 3-14=-1176/356, 4-14=-1345/335,  
 4-5=-1390/208  
 BOT CHORD 1-8=-156/1140, 7-8=0/743, 7-15=0/743, 6-15=0/743, 5-6=-67/1058  
 WEBS 3-6=-191/696, 6-9=-412/284, 4-9=-449/287, 3-8=-191/674, 2-8=-419/281

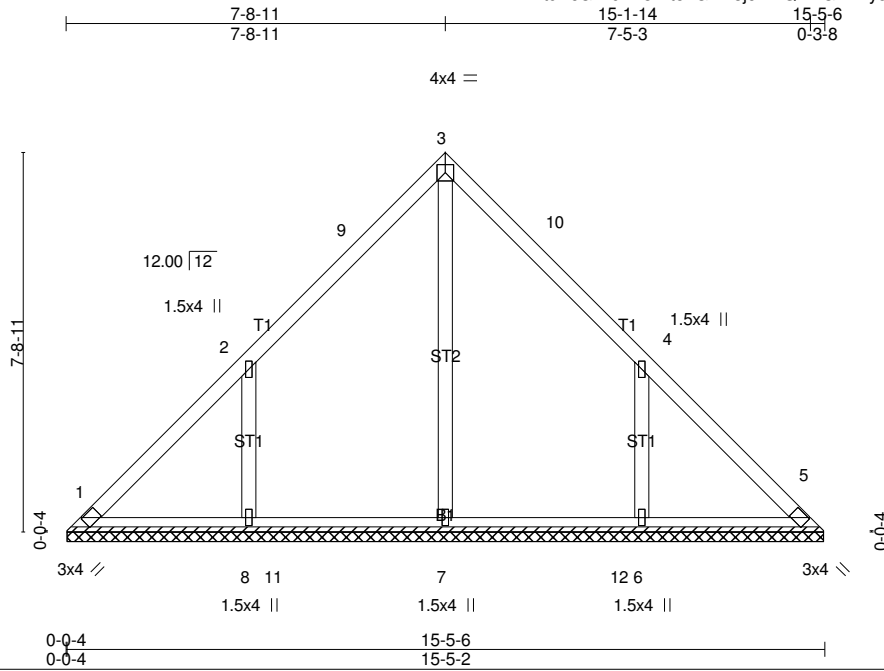
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	V01	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:44 2021 Page 1  
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Scale = 1:46.9

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.19	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 74 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD  
 BOT CHORD

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

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

**REACTIONS.** All bearings 15-4-14.  
 (lb) - Max Horz 1=182(LC 13)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-239(LC 16), 6=-238(LC 17)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=395(LC 32), 8=505(LC 29), 6=504(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-8=-370/279, 4-6=-370/279

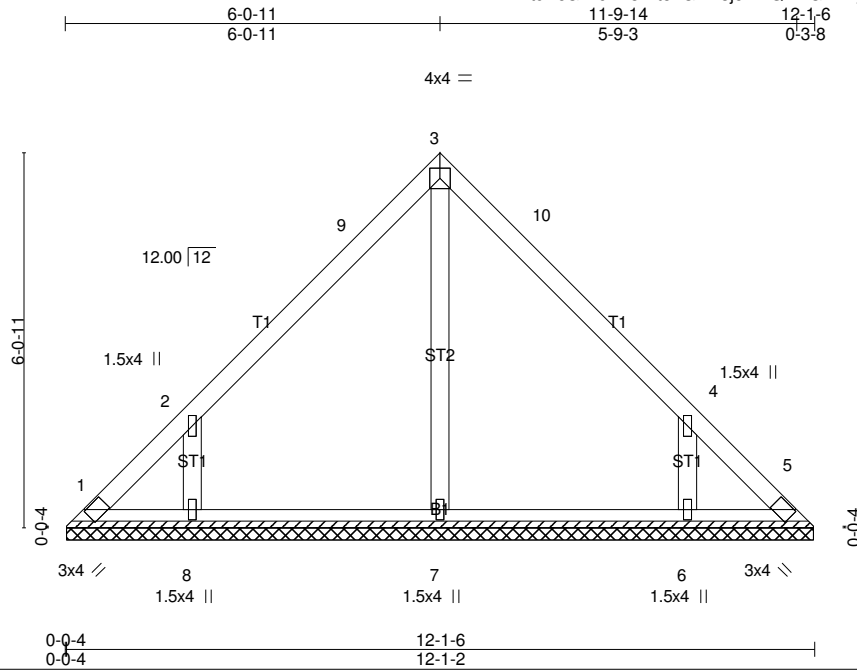
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (it=lb) 8=239, 6=238.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	V02	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:37.2

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.12	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 55 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**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 12-0-14.  
(lb) - Max Horz 1=-141(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-207(LC 16), 6=-206(LC 17)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=274(LC 2), 8=390(LC 29), 6=389(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-8=-329/250, 4-6=-328/250

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (it=lb) 8=207, 6=206.
  - 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.

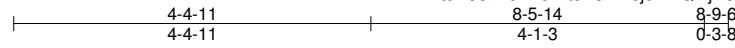
**LOAD CASE(S)** Standard



Job 21-3743-A	Truss V03	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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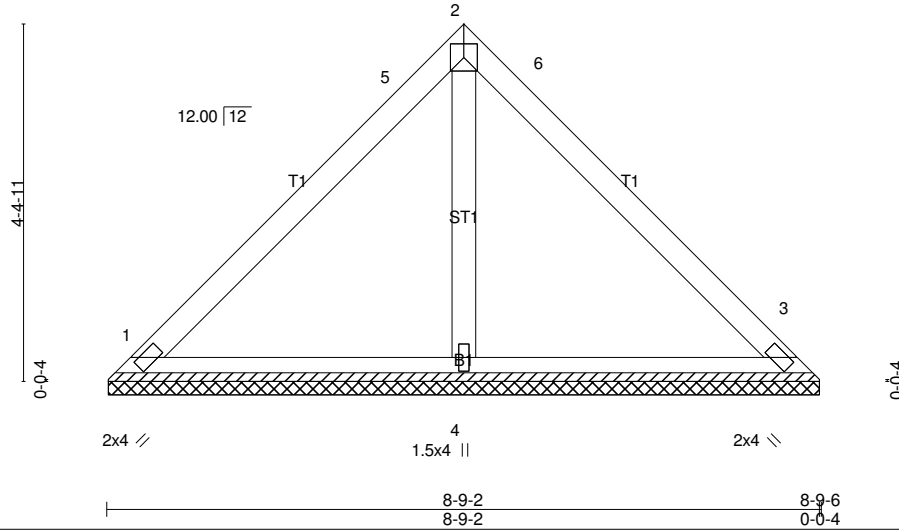
Riverside Roof Truss, LLC, Danville, VA. 24541

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4x4 =

Scale = 1:28.3



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 36 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

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

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

**REACTIONS.** (lb/size) 1=212/8-8-14 (min. 0-1-8), 3=212/8-8-14 (min. 0-1-8), 4=272/8-8-14 (min. 0-1-8)  
Max Horz 1=100(LC 13)  
Max Uplift1=-48(LC 17), 3=-48(LC 17)  
Max Grav 1=250(LC 2), 3=250(LC 2), 4=308(LC 2)

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

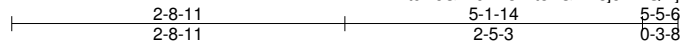
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
  - 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

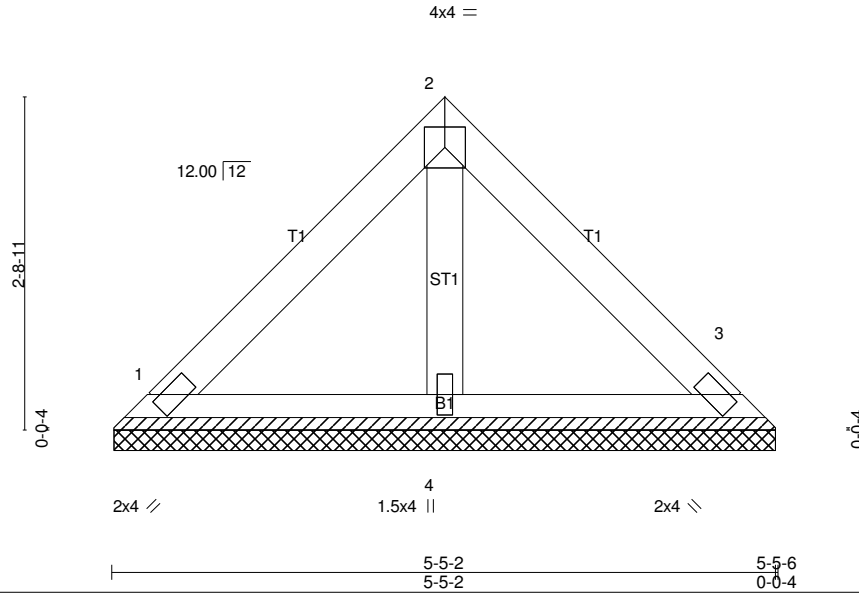
Job 21-3743-A	Truss V04	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:18.8



<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 (roof) 30.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) n/a - n/a 999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.06	Vert(CT) n/a - n/a 999		
TCDL 10.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 3 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-P			
BCDL 10.0				Weight: 21 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 5-5-6 oc purlins.  
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 1=125/5-4-14 (min. 0-1-8), 3=125/5-4-14 (min. 0-1-8), 4=160/5-4-14 (min. 0-1-8)  
Max Horz 1=-59(LC 12)  
Max Uplift1=-28(LC 17), 3=-28(LC 17)  
Max Grav 1=147(LC 2), 3=147(LC 2), 4=181(LC 2)

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

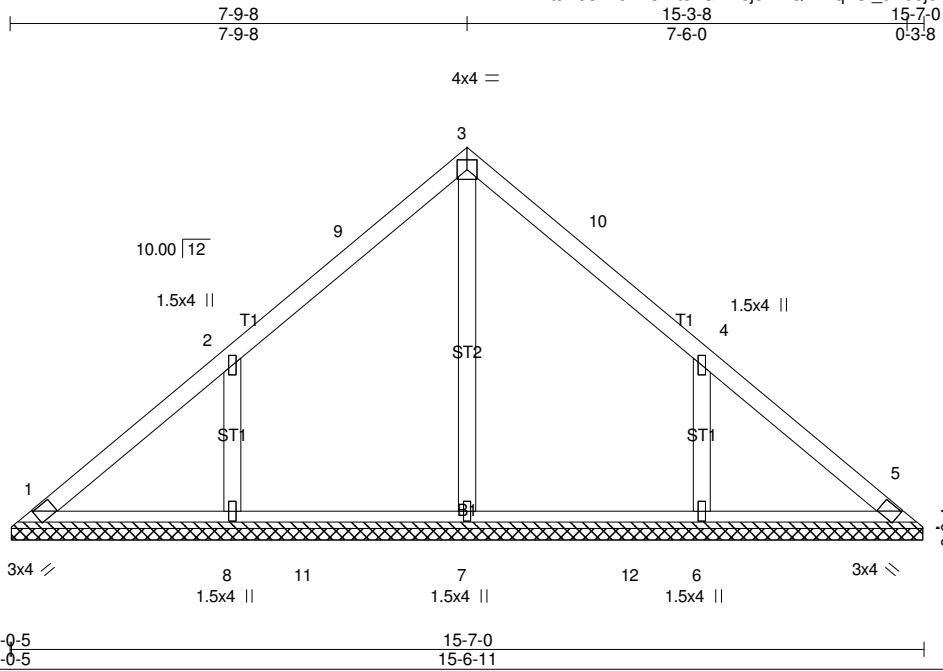
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	V05	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:46 2021 Page 1  
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Scale = 1:39.3

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.15	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 68 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 OTHERS 2x4 SP No.3

**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 15-6-6.  
 (lb) - Max Horz 1=152(LC 13)  
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-187(LC 16), 6=-187(LC 17)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=390(LC 32), 8=473(LC 29), 6=472(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-8=-357/230, 4-6=-357/230

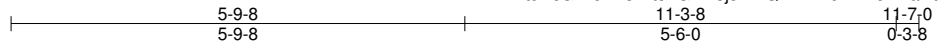
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=187, 6=187.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

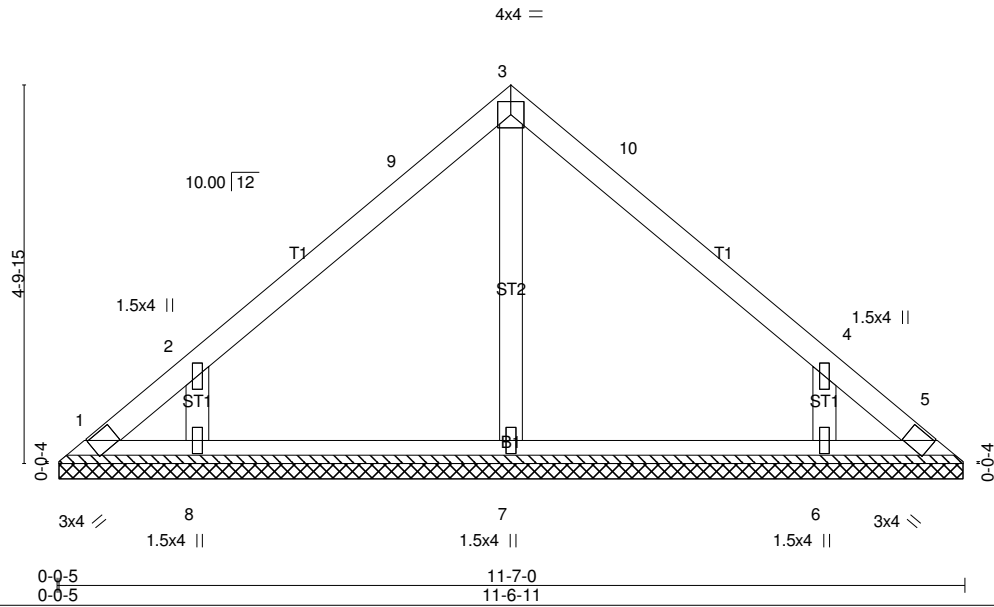
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	V06	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:29.4



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 47 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**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 11-6-6.  
(lb) - Max Horz 1=111(LC 13)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-165(LC 16), 6=-165(LC 17)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=297(LC 2), 8=380(LC 29), 6=379(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-8=-322/210, 4-6=-322/210

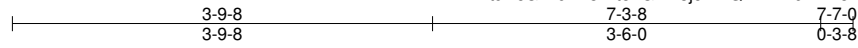
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (j=lb) 8=165, 6=165.
  - 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 21-3743-A	Truss V07	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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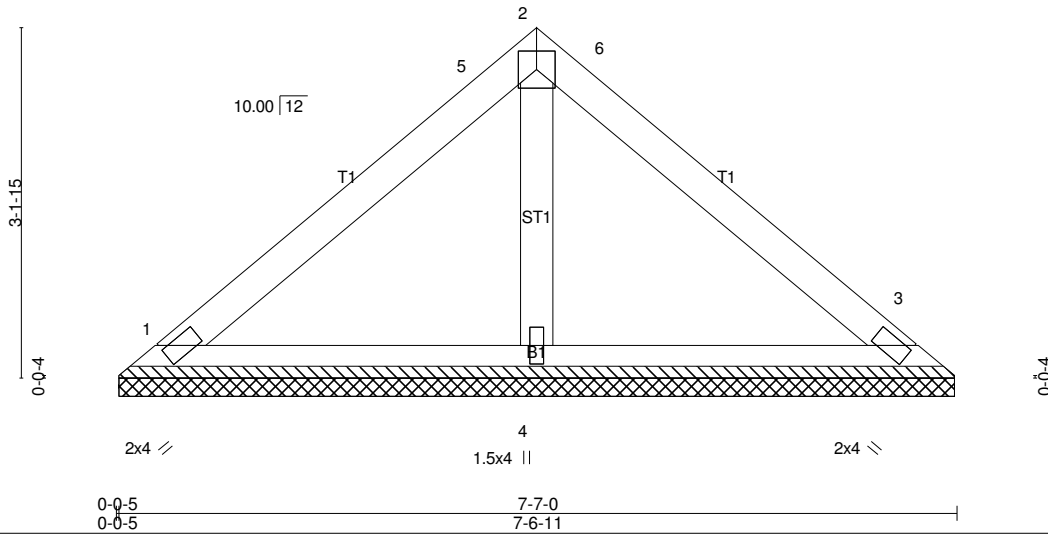
Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:47 2021 Page 1  
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4x4 =

Scale = 1:20.8



<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 (roof) 30.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) n/a - n/a 999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.12	Vert(CT) n/a - n/a 999		
TCDL 10.0	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 3 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-P			
BCDL 10.0				Weight: 28 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

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

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

**REACTIONS.** (lb/size) 1=169/7-6-6 (min. 0-1-8), 3=169/7-6-6 (min. 0-1-8), 4=246/7-6-6 (min. 0-1-8)  
Max Horz 1=-70(LC 12)  
Max Uplift 1=-33(LC 17), 3=-41(LC 17)  
Max Grav 1=199(LC 2), 3=199(LC 2), 4=280(LC 2)

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

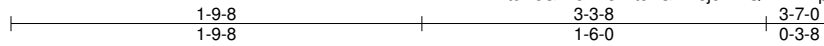
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
  - 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

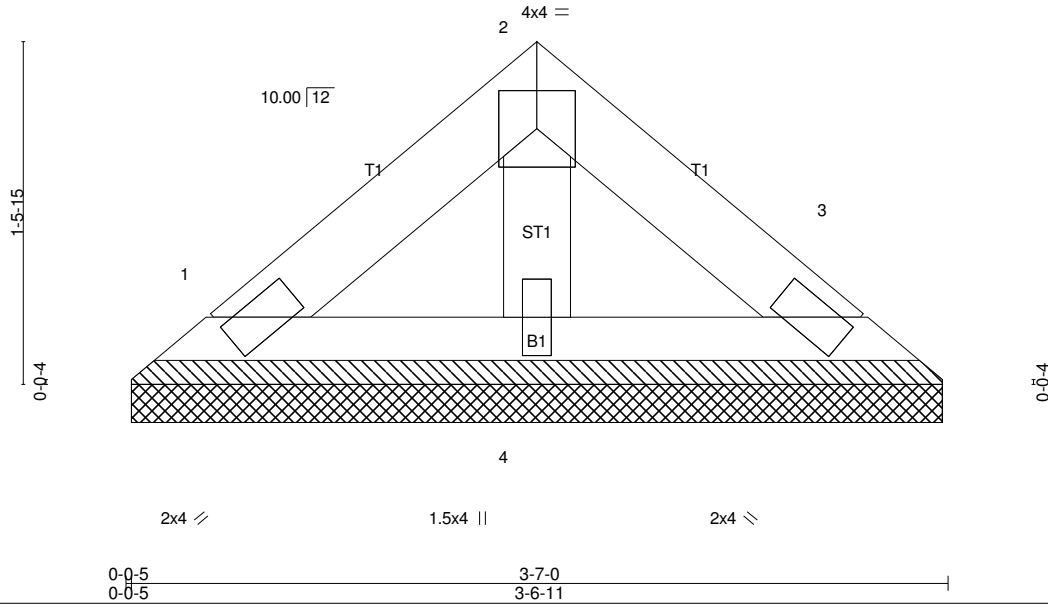
Job 21-3743-A	Truss V08	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:10.0



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 12 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

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

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

**REACTIONS.** (lb/size) 1=69/3-6-6 (min. 0-1-8), 3=69/3-6-6 (min. 0-1-8), 4=101/3-6-6 (min. 0-1-8)  
Max Horz 1=-29(LC 12)  
Max Uplift1=-13(LC 17), 3=-17(LC 17)  
Max Grav 1=82(LC 2), 3=82(LC 2), 4=115(LC 2)

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

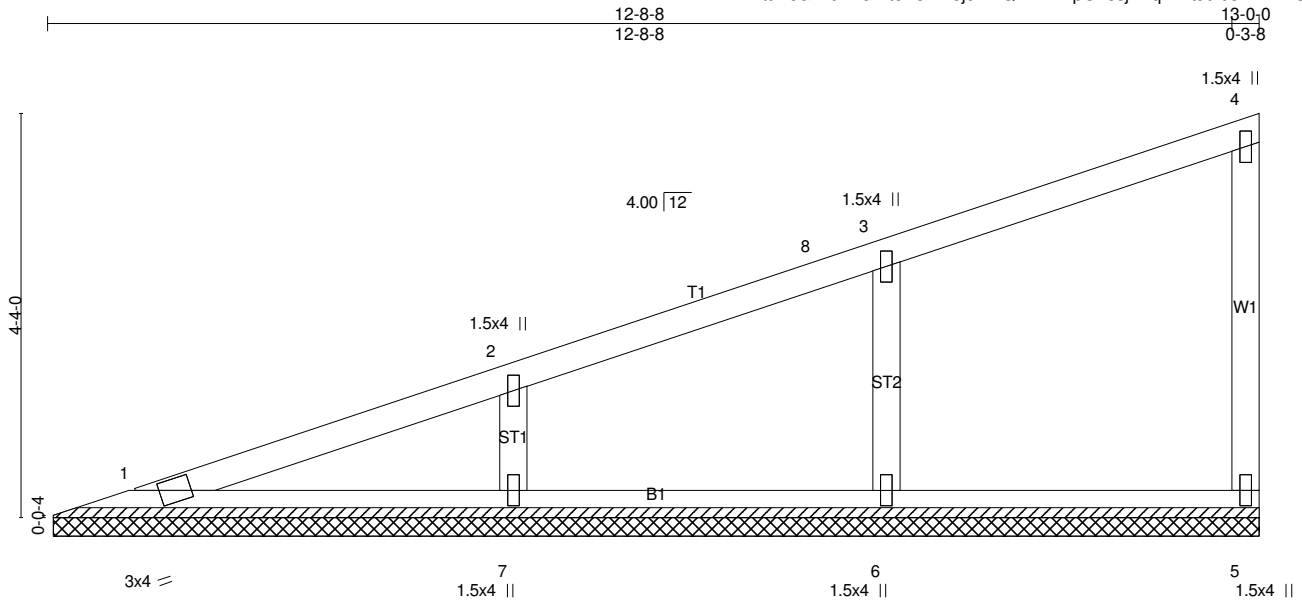
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	V09	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:48 2021 Page 1  
ID:tuKcGkndK28Ert51GwX8jcz2kQv-71xmpO?8sj2Rq1L1tJbfb8XPDLkUXQcRCZx5kz2if



Scale = 1:24.7

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 49 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 12-11-4.  
(lb) - Max Horz 1=168(LC 13)  
Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=414(LC 22), 7=451(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 3-6=-334/171, 2-7=-351/174

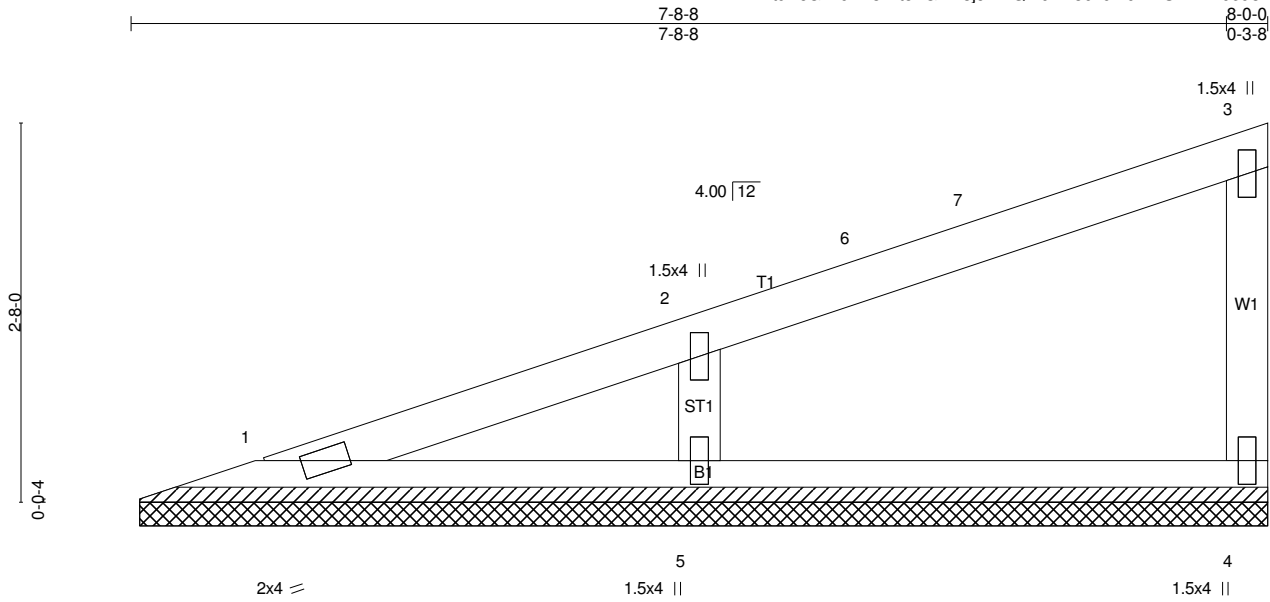
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 7.
  - 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 21-3743-A	Truss V10	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:49 2021 Page 1  
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Scale = 1:16.2

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 27 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

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

**REACTIONS.** (lb/size) 1=88/7-11-4 (min. 0-1-8), 4=131/7-11-4 (min. 0-1-8), 5=376/7-11-4 (min. 0-1-8)  
Max Horz 1=98(LC 13)  
Max Uplift 4=-21(LC 12), 5=-83(LC 12)  
Max Grav 1=102(LC 2), 4=153(LC 2), 5=436(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-5=-349/206

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

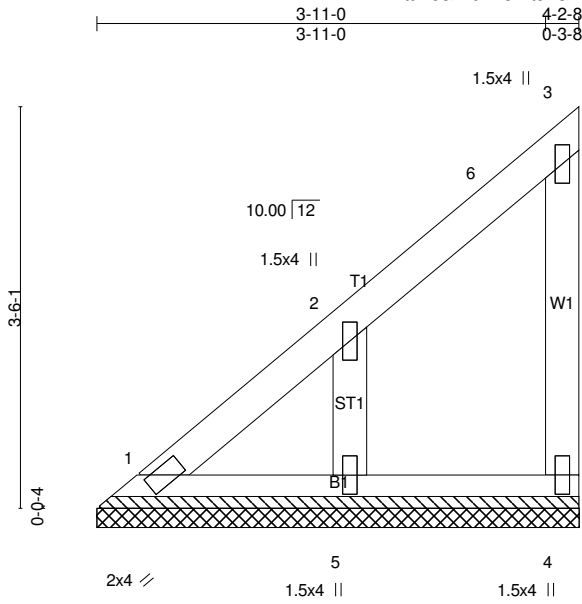
**LOAD CASE(S)** Standard



Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	V11GE	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:49 2021 Page 1  
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Scale = 1:20.1

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 20 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-2-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=58/4-2-8 (min. 0-1-8), 4=61/4-2-8 (min. 0-1-8), 5=196/4-2-8 (min. 0-1-8)  
Max Horz 1=115(LC 13)  
Max Uplift 1=-14(LC 12), 4=-29(LC 13), 5=-94(LC 16)  
Max Grav 1=95(LC 30), 4=81(LC 29), 5=234(LC 29)

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

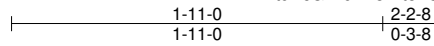
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 5.
  - 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

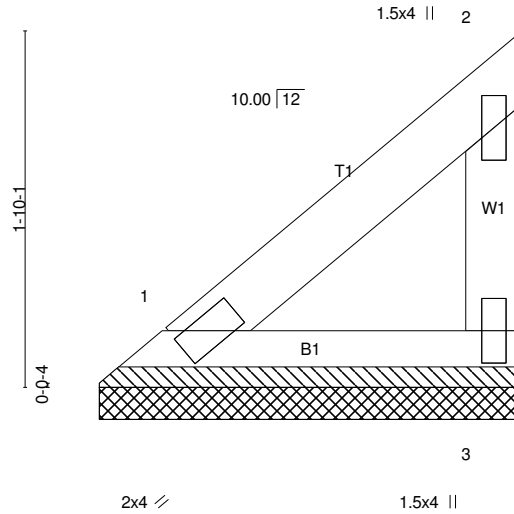
Job 21-3743-A	Truss V12	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale: 1"=1'



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 9 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

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

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

**REACTIONS.** (lb/size) 1=72/2-2-3 (min. 0-1-8), 3=72/2-2-3 (min. 0-1-8)  
Max Horz 1=52(LC 13)  
Max Uplift 1=-1(LC 16), 3=-24(LC 16)  
Max Grav 1=83(LC 2), 3=89(LC 29)

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

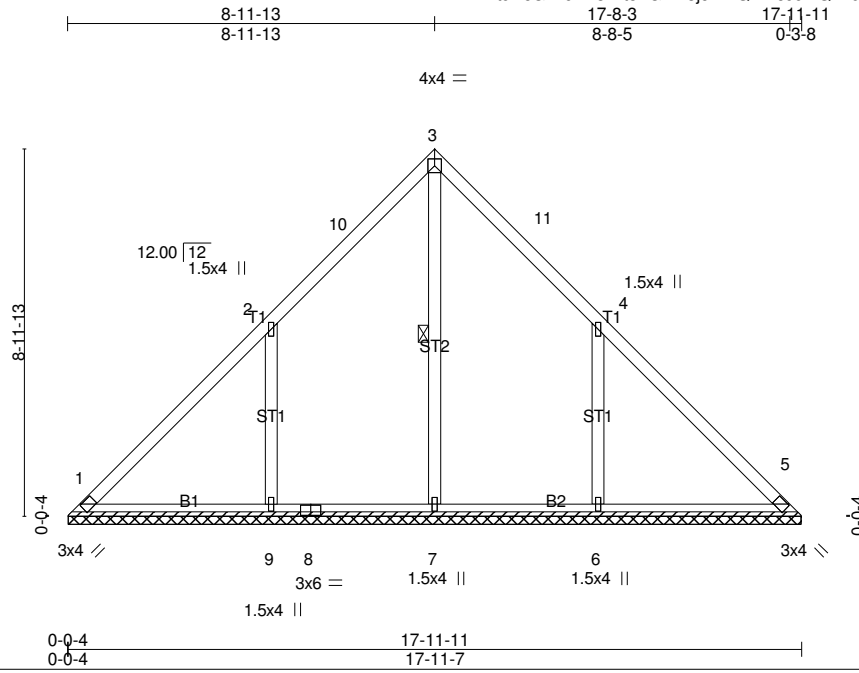
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
  - 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 21-3743-A	Truss V13	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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ID:tuKcGkndK28Ert51GwX8jcz2kQv-YoduRQ219eQ0hV3cYR9MDn9vxYmVkm058Aobi3z2izc



Scale = 1:56.4

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.18	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 89 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**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 3-7

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

**REACTIONS.** All bearings 17-11-3.  
(lb) - Max Horz 1=-214(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-283(LC 16), 6=-283(LC 17)  
Max Grav All reactions 250 lb or less at joint(s) 5 except 1=250(LC 30), 7=395(LC 32), 9=609(LC 29), 6=609(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-9=-437/328, 4-6=-437/328

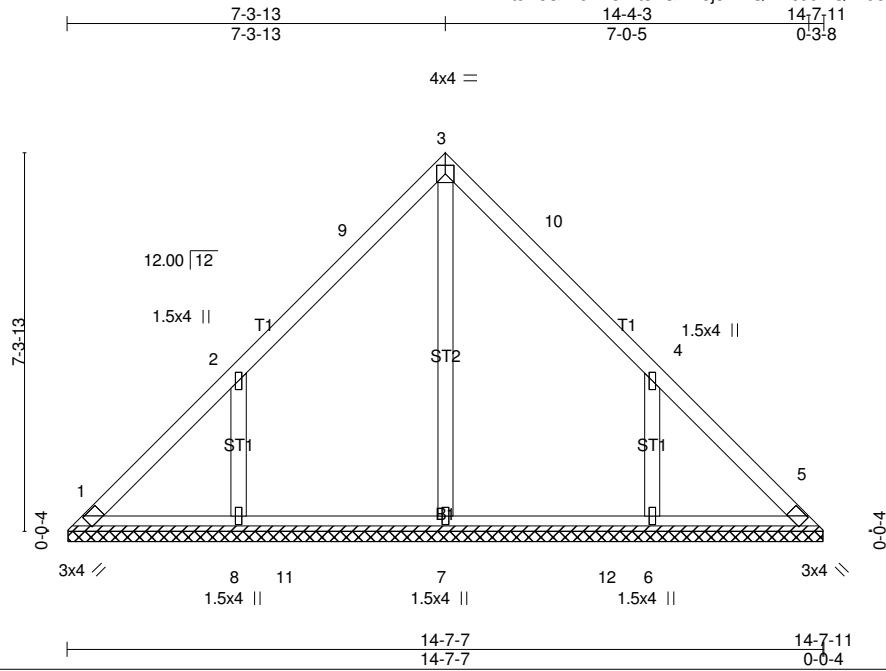
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) Gable requires continuous bottom chord bearing.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=283, 6=283.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	V14	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:44.6

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.17	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 69 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

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

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

**REACTIONS.** All bearings 14-7-3.  
(lb) - Max Horz 1=172(LC 13)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-227(LC 16), 6=-227(LC 17)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=389(LC 32), 8=471(LC 29), 6=470(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-8=-353/267, 4-6=-353/267

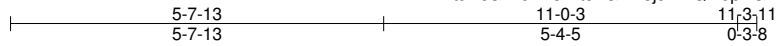
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (j=lb) 8=227, 6=227.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	V15	Valley	1	1	Job Reference (optional)

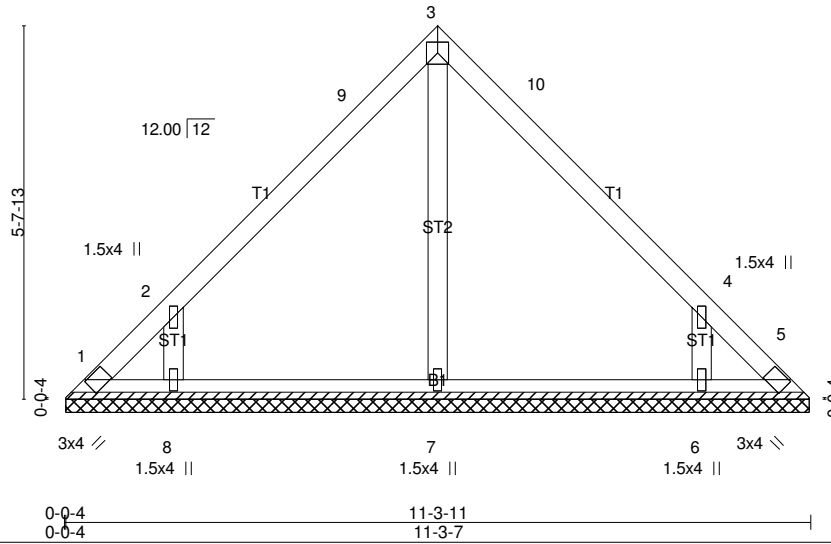
Riverside Roof Truss, LLC, Danville, VA. 24541

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4x4 =

Scale = 1:34.9



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 50 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD  
 BOT CHORD

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

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

**REACTIONS.** All bearings 11-3-3.  
 (lb) - Max Horz 1=-131(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-211(LC 16), 6=-211(LC 17)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=272(LC 2), 8=395(LC 29), 6=395(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-8=-339/259, 4-6=-339/259

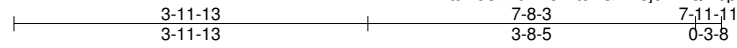
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (j=l=b) 8=211, 6=211.
  - 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 21-3743-A	Truss V16	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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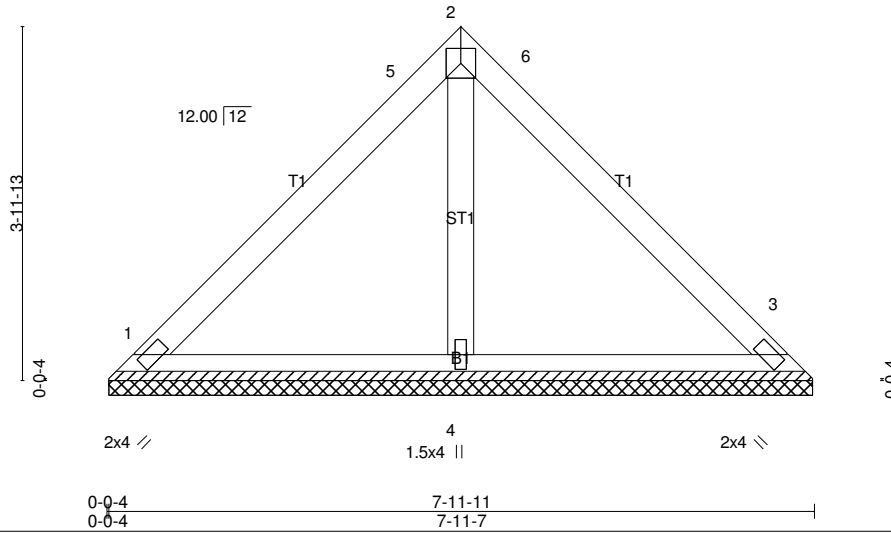
Riverside Roof Truss, LLC, Danville, VA. 24541

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4x4 =

Scale = 1:26.0



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 32 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

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

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

**REACTIONS.** (lb/size) 1=191/7-11-3 (min. 0-1-8), 3=191/7-11-3 (min. 0-1-8), 4=245/7-11-3 (min. 0-1-8)  
Max Horz 1=90(LC 15)  
Max Uplift 1=-43(LC 17), 3=-43(LC 17)  
Max Grav 1=225(LC 2), 3=225(LC 2), 4=277(LC 2)

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

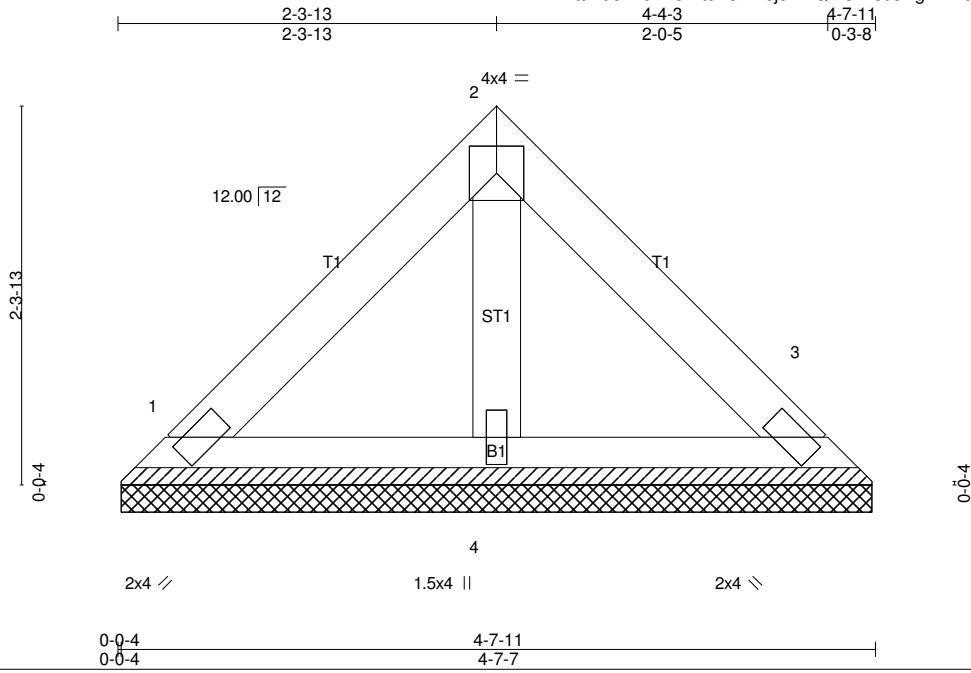
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
  - 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 21-3743-A	Truss V17	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:14.1

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 18 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 4-7-11 oc purlins.  
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 1=103/4-7-3 (min. 0-1-8), 3=103/4-7-3 (min. 0-1-8), 4=133/4-7-3 (min. 0-1-8)  
Max Horz 1=49(LC 13)  
Max Uplift1=-23(LC 17), 3=-23(LC 17)  
Max Grav 1=122(LC 2), 3=122(LC 2), 4=150(LC 2)

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

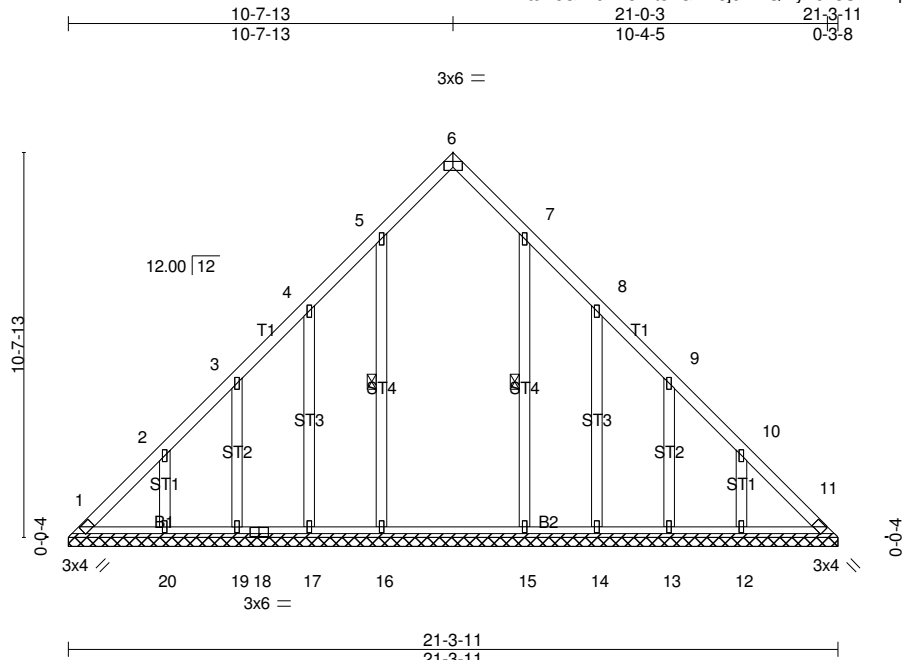
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
  - 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 21-3743-A	Truss V18GE	Truss Type GABLE	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:54 2021 Page 1  
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Scale: 3/16"=1'

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

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 30.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.14	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.13	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 136 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**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 5-16, 7-15

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

**REACTIONS.** All bearings 21-3-11.  
(lb) - Max Horz 1=-255(LC 14)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 16, 19, 15, 13 except 17=-125(LC 16), 20=-134(LC 16), 14=-128(LC 17), 12=-134(LC 17)  
Max Grav All reactions 250 lb or less at joint(s) 17, 19, 14, 13 except 1=289(LC 16), 11=285(LC 17), 16=335(LC 29), 20=262(LC 29), 15=328(LC 30), 12=263(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-431/291, 2-3=-303/182, 9-10=-296/182, 10-11=-425/291  
BOT CHORD 1-20=-223/335, 19-20=-223/335, 18-19=-223/335, 17-18=-223/335, 16-17=-223/335, 15-16=-223/335, 14-15=-223/335, 13-14=-223/335, 12-13=-223/335, 11-12=-223/335

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - All plates are 1.5x4 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 16, 19, 15, 13 except (jt=lb) 17=125, 20=134, 14=128, 12=134.
  - 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