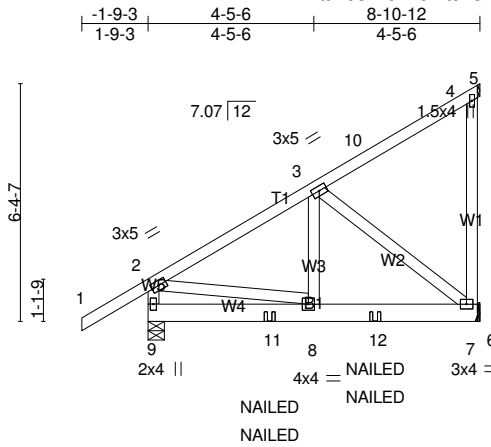


Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	CJ01	Diagonal Hip Girder	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Wed Jun 15 16:52:29 2022 Page 1
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Scale = 1:61.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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; 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 67 lb uplift at joint 9 and 180 lb uplift at joint 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.
 - 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

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-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. Wed Jun 15 16:52:29 2022 Page 2
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LOAD CASE(S) Standard

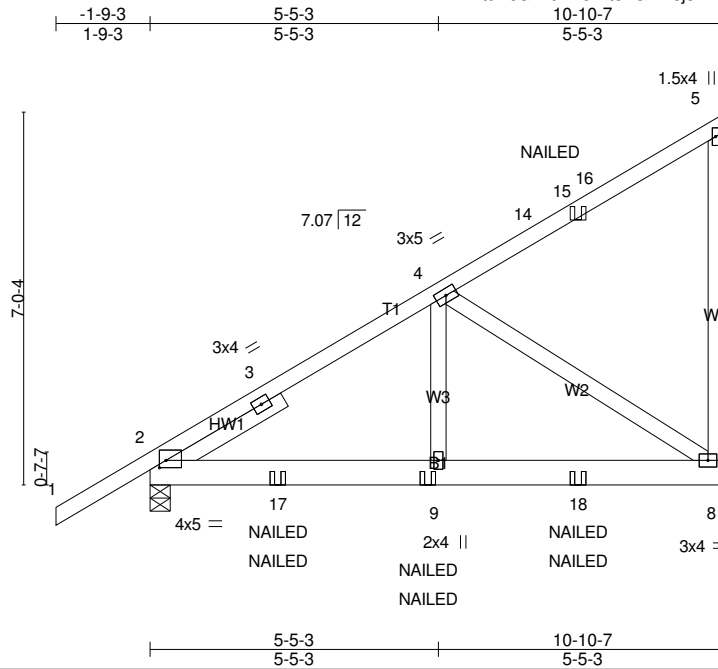
Concentrated Loads (lb)

Vert: 11=1(F=1, B=1) 12=-37(F=-19, B=-19)

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	CJ02	Diagonal Hip Girder	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:43.4

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.79	Vert(LL)	0.02	8-9	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.32	Vert(CT)	-0.03	8-9	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.53	Horz(CT)	0.01	8	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 74 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 - 2-6-0

BRACING-

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

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

REACTIONS. (lb/size) 2=695/0-4-9 (min. 0-1-8), 8=634/Mechanical
 Max Horz 2=264(LC 16)
 Max Uplift 2=-175(LC 16), 8=-257(LC 16)
 Max Grav 2=810(LC 2), 8=698(LC 2)

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

TOP CHORD 2-3=-389/211, 3-4=-615/128
 BOT CHORD 2-17=-278/610, 9-17=-278/610, 9-18=-278/610, 8-18=-278/610
 WEBS 4-9=-43/317, 4-8=-730/332

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) 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
- 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 175 lb uplift at joint 2 and 257 lb uplift at joint 8.
- 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: 1-6=-66, 7-10=-20

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	CJ02	Diagonal Hip Girder	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOAD CASE(S) Standard

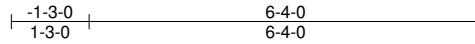
Concentrated Loads (lb)

Vert: 9=-45(F=-22, B=-22) 15=-88(B) 17=-41(F=-20, B=-20) 18=-107(F=-53, B=-53)

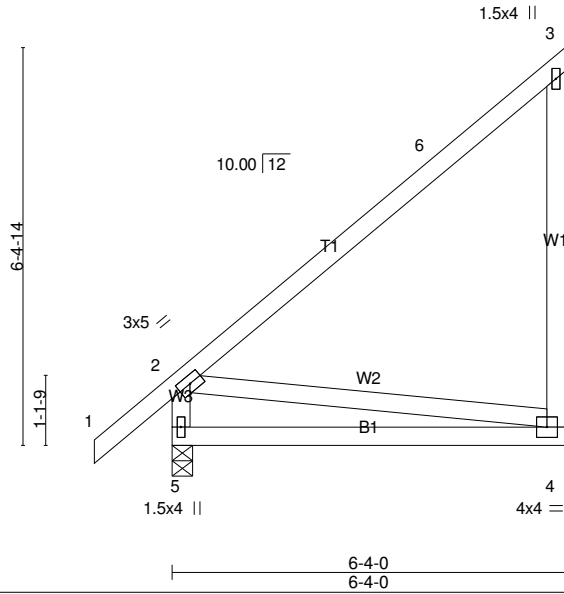
Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	J01	Jack-Closed	7	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Wed Jun 15 16:52:30 2022 Page 1
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Scale = 1:37.1



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 0.91	Vert(LL) -0.08 4-5 >907 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.16 4-5 >454 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.21	Horz(CT) -0.00 4 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MP			
BCDL 10.0				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

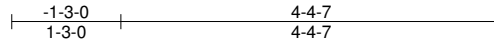
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 8 lb uplift at joint 5 and 110 lb uplift at joint 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

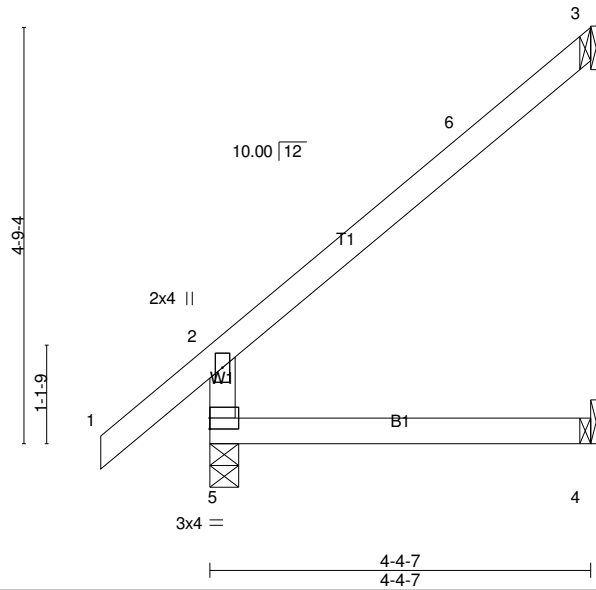
Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	J02	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:26.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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

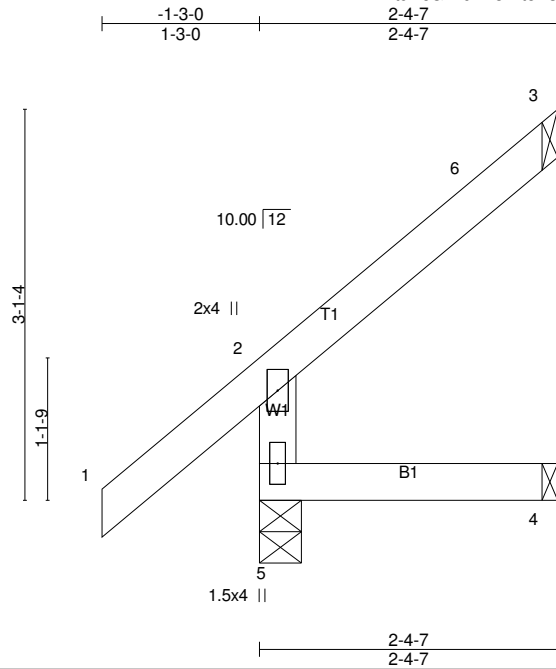
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 108 lb uplift at joint 3 and 4 lb uplift at joint 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 - MASON ROOF
22-2455-A	J03	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:18.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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.

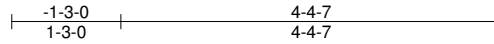
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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 58 lb uplift at joint 3 and 9 lb uplift at joint 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

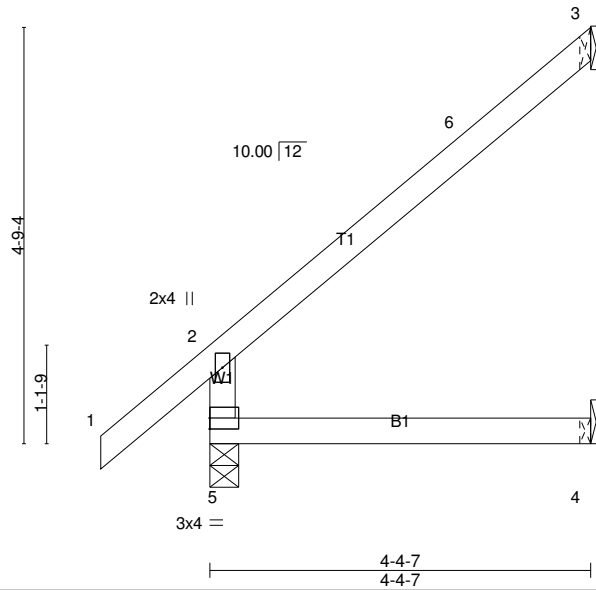
Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	J04	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:26.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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

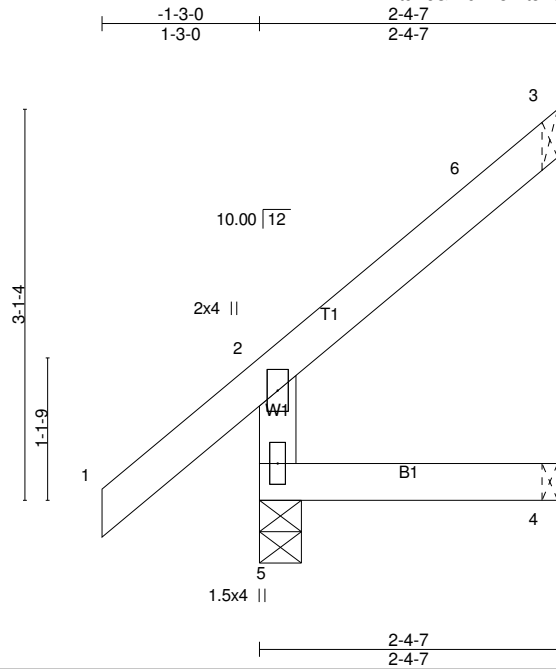
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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 108 lb uplift at joint 3 and 4 lb uplift at joint 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 - MASON ROOF
22-2455-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. Wed Jun 15 16:52:32 2022 Page 1
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Scale = 1:18.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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.

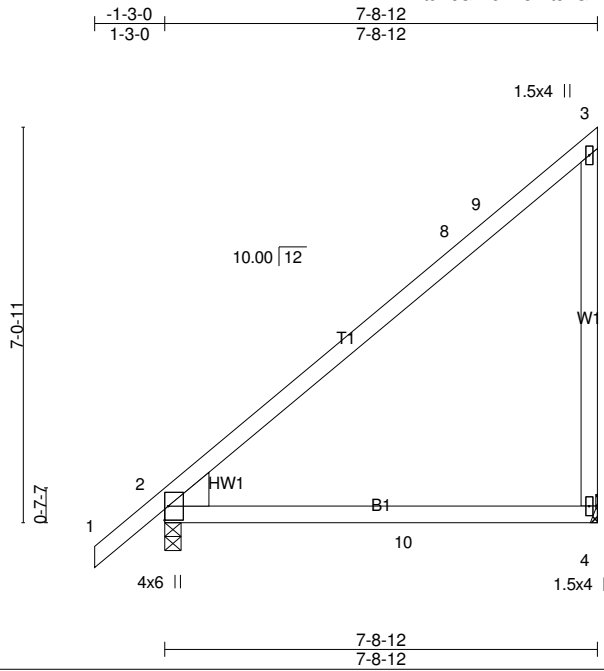
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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 58 lb uplift at joint 3 and 9 lb uplift at joint 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 - MASON ROOF
22-2455-A	J06	Jack-Closed	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. Wed Jun 15 16:52:32 2022 Page 1
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Scale = 1:41.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.82	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.42	Vert(LL) 0.22 4-7 >414 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.36 4-7 >250 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.05 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 41 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.3
WEDGE
Left: 2x8 SP DSS

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.

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=-265/228, 3-9=-225/261, 3-4=-315/238

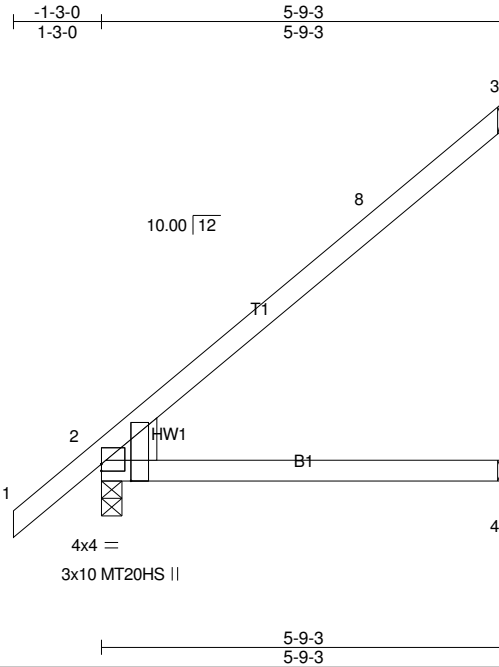
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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, 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 99 lb uplift at joint 4 and 26 lb uplift at joint 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 - MASON ROOF
22-2455-A	J07	Jack-Closed	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:32.8

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.59	Vert(LL)	0.10	4-7	>705	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.50	Vert(CT)	-0.14	4-7	>497	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.02	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEDGE
 Left: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-3 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) 3=157/Mechanical, 2=338/0-3-8 (min. 0-1-8), 4=80/Mechanical
 Max Horz 2=218(LC 16)
 Max Uplift 3=120(LC 16), 4=-3(LC 16)
 Max Grav 3=195(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.

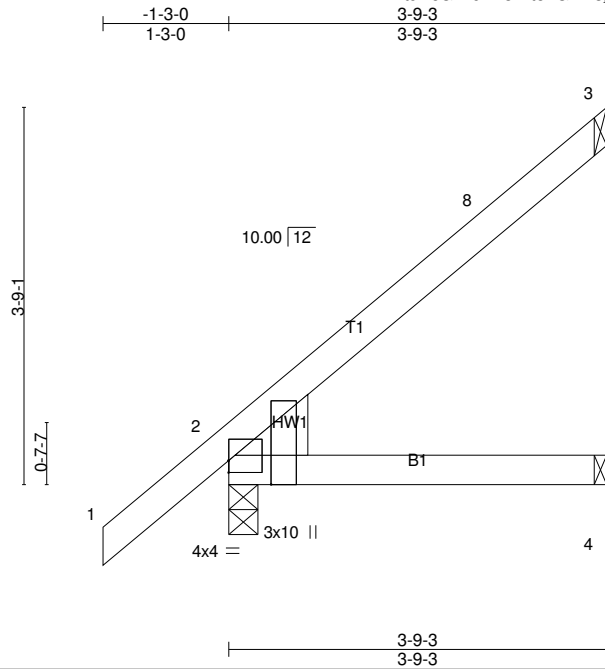
NOTES-

- 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 3 and 3 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 22-2455-A	Truss J08	Truss Type Jack-Closed	Qty 1	Ply 1	CAIN - MASON ROOF
Riverside Roof Truss, LLC, Danville, VA. 24541					Job Reference (optional)

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Scale = 1:22.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.20	Vert(LL)	0.02	4-7	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	-0.02	4-7	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.01	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP					Weight: 18 lb	FT = 20%
BCDL 10.0	Code IRC2015/TPI2014							

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x8 SP DSS

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-3 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) 3=96/Mechanical, 2=256/0-3-8 (min. 0-1-8), 4=50/Mechanical
Max Horz 2=154(LC 16)
Max Uplift 3=74(LC 16), 2=-1(LC 16), 4=-5(LC 16)
Max Grav 3=120(LC 30), 2=302(LC 2), 4=67(LC 7)

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

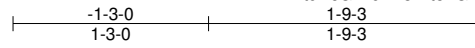
- NOTES-**
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 3, 1 lb uplift at joint 2 and 5 lb uplift at joint 4.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 22-2455-A	Truss J09	Truss Type Jack-Closed	Qty 2	Ply 1	CAIN - MASON ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

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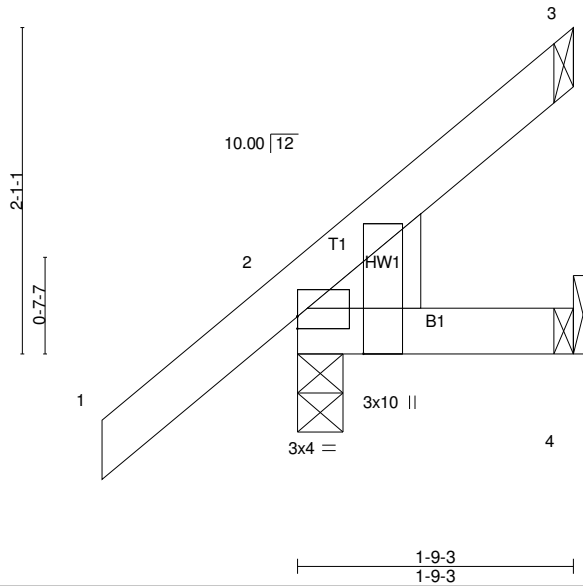


Plate Offsets (X,Y)-- [2:0-0-0,0-0-15], [2:0-2-14,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.15	Vert(LL)	0.00	7	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	-0.00	7	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	2	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x8 SP DSS

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-3 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=188/0-3-8 (min. 0-1-8), 4=47/Mechanical
Max Horz 2=87(LC 16)
Max Uplift 2=-22(LC 16), 4=-30(LC 13)
Max Grav 2=223(LC 2), 4=55(LC 30)

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

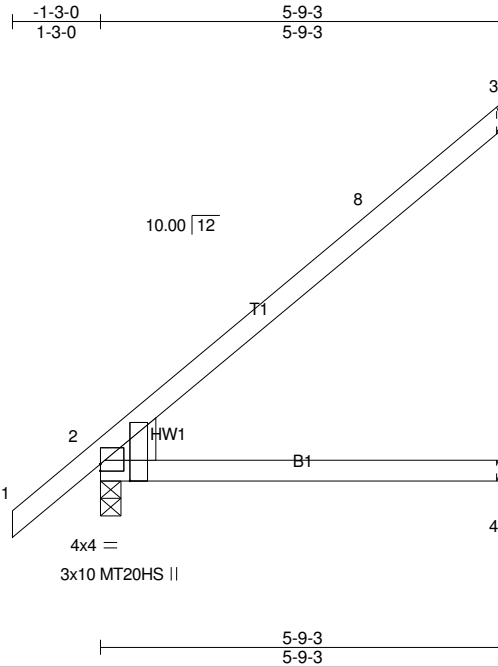
- NOTES-**
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 2 and 30 lb uplift at joint 4.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	J10	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:32.8

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.59	Vert(LL)	0.10	4-7	>705	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.50	Vert(CT)	-0.14	4-7	>497	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.02	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-3 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) 3=157/Mechanical, 2=338/0-3-8 (min. 0-1-8), 4=80/Mechanical
Max Horz 2=218(LC 16)
Max Uplift 3=120(LC 16), 4=-3(LC 16)
Max Grav 3=195(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-

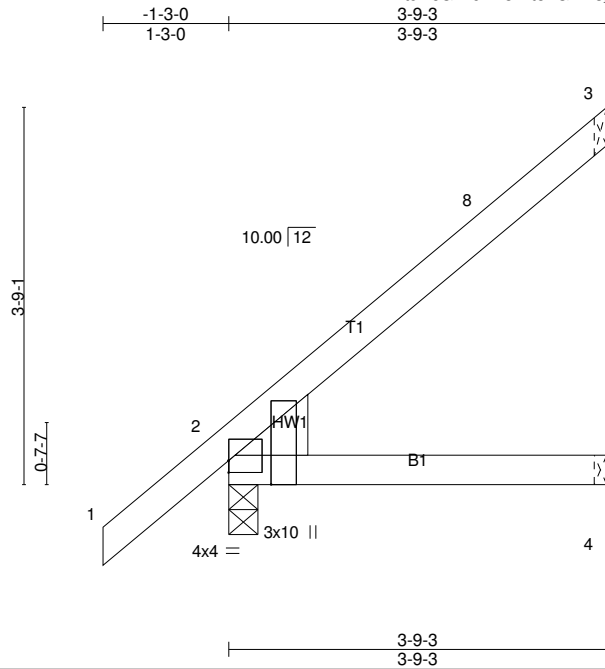
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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
- 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) 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.
- 8) Refer to girder(s) for truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 3 and 3 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 22-2455-A	Truss J11	Truss Type Jack-Closed	Qty 2	Ply 1	CAIN - MASON 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. Wed Jun 15 16:52:35 2022 Page 1
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Scale = 1:22.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.20	Vert(LL)	0.02	4-7	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	-0.02	4-7	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.01	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP					Weight: 18 lb	FT = 20%
BCDL 10.0	Code IRC2015/TPI2014							

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-3 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) 3=96/Mechanical, 2=256/0-3-8 (min. 0-1-8), 4=50/Mechanical
Max Horz 2=154(LC 16)
Max Uplift 3=74(LC 16), 2=-1(LC 16), 4=-5(LC 16)
Max Grav 3=120(LC 30), 2=302(LC 2), 4=67(LC 7)

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

NOTES-

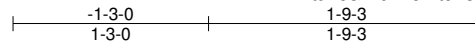
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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
- 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 74 lb uplift at joint 3, 1 lb uplift at joint 2 and 5 lb uplift at joint 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 22-2455-A	Truss J12	Truss Type Jack-Closed	Qty 2	Ply 1	CAIN - MASON 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. Wed Jun 15 16:52:35 2022 Page 1
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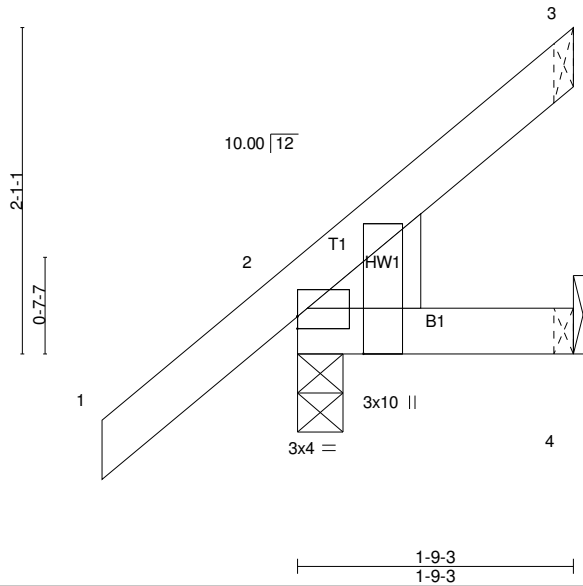


Plate Offsets (X,Y)-- [2:0-0-0,0-0-15], [2:0-2-14,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.15	Vert(LL)	0.00	7	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	-0.00	7	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	2	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x8 SP DSS

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-3 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=188/0-3-8 (min. 0-1-8), 4=47/Mechanical
Max Horz 2=87(LC 16)
Max Uplift 2=-22(LC 16), 4=-30(LC 13)
Max Grav 2=223(LC 2), 4=55(LC 30)

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

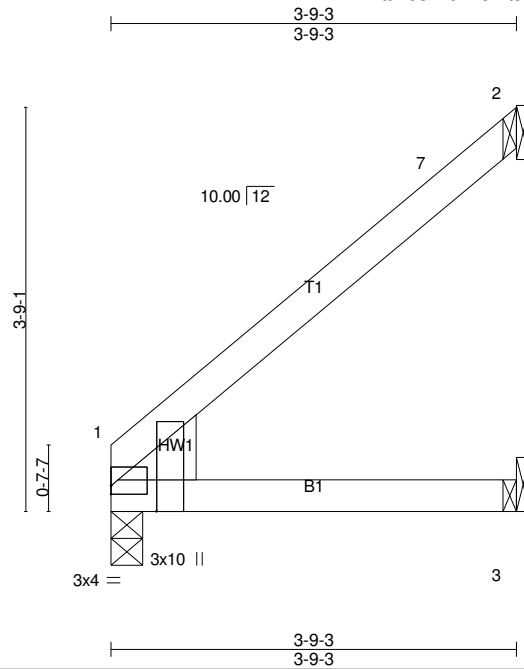
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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
 - 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 22 lb uplift at joint 2 and 30 lb uplift at joint 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 - MASON ROOF
22-2455-A	J14	Jack-Closed	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.23	Vert(LL)	-0.02	3-6	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.25	Vert(CT)	-0.03	3-6	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.01	1	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 15 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x8 SP DSS

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-3 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=102/Mechanical, 3=58/Mechanical, 1=160/0-3-8 (min. 0-1-8)
Max Horz 1=119(LC 16)
Max Uplift2=-77(LC 16), 3=-9(LC 16)
Max Grav2=127(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; 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
 - 2) 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
 - 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 77 lb uplift at joint 2 and 9 lb uplift at joint 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.

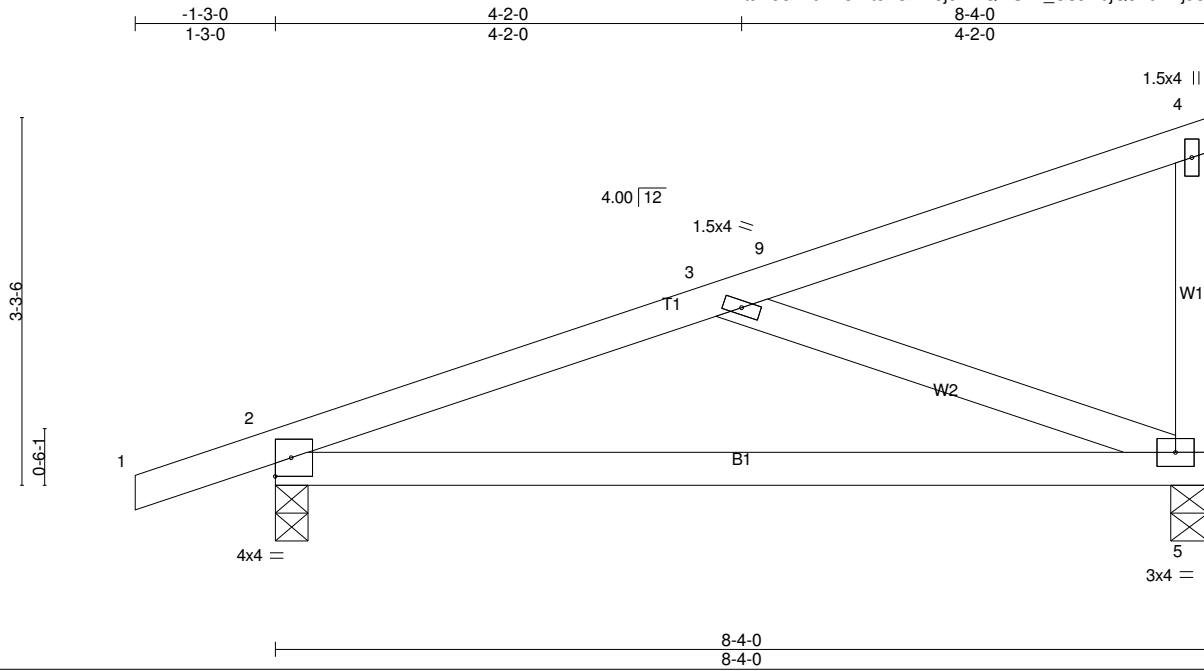
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-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. Wed Jun 15 16:52:36 2022 Page 1
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	PLATES	GRIP
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

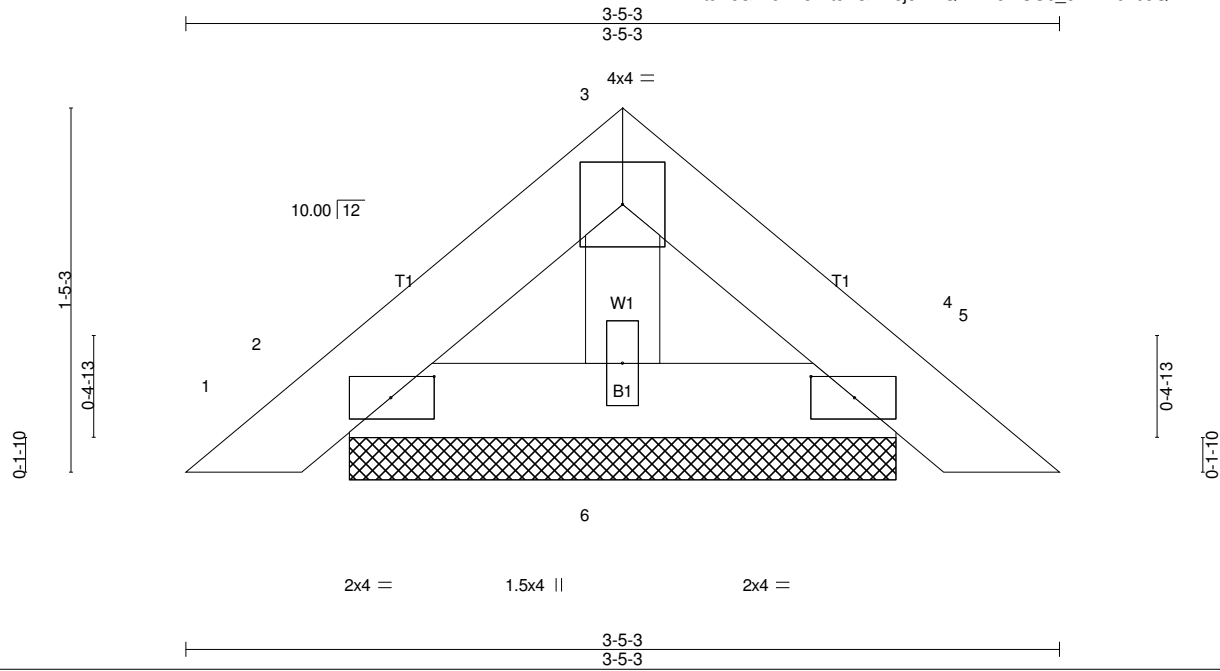
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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 104 lb uplift at joint 2 and 68 lb uplift at joint 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 - MASON ROOF
22-2455-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. Wed Jun 15 16:52:37 2022 Page 1
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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.

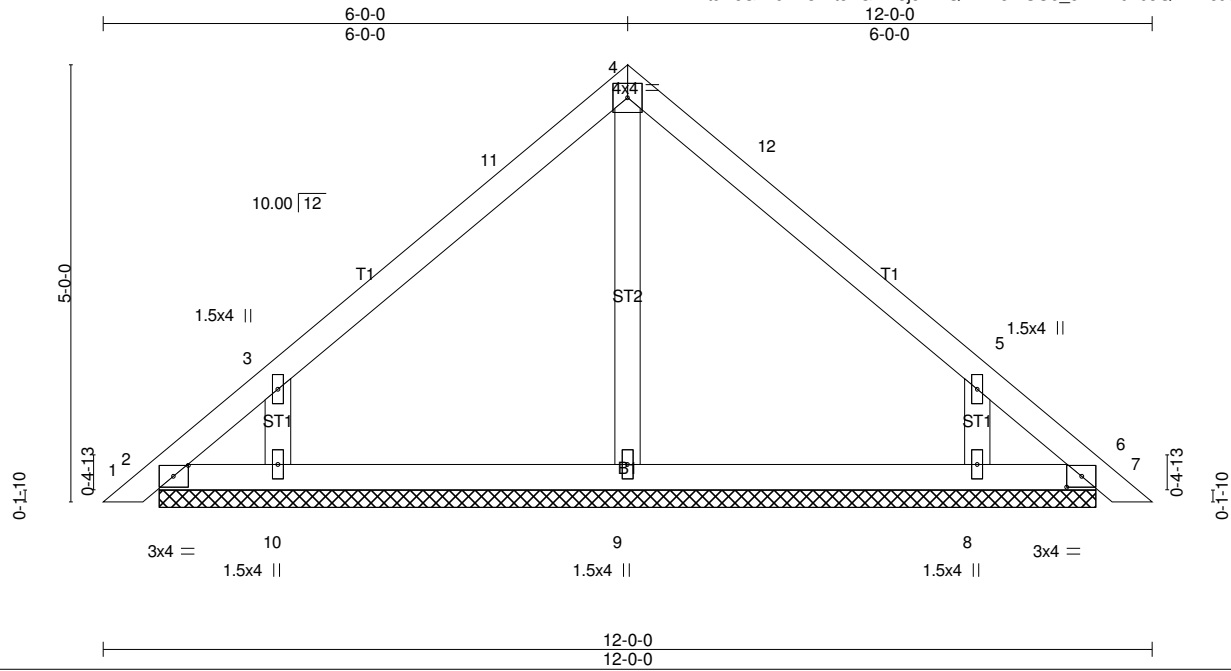
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right 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 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 22 lb uplift at joint 2 and 25 lb uplift at joint 4.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	PB03	Piggyback	16	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:26.4

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

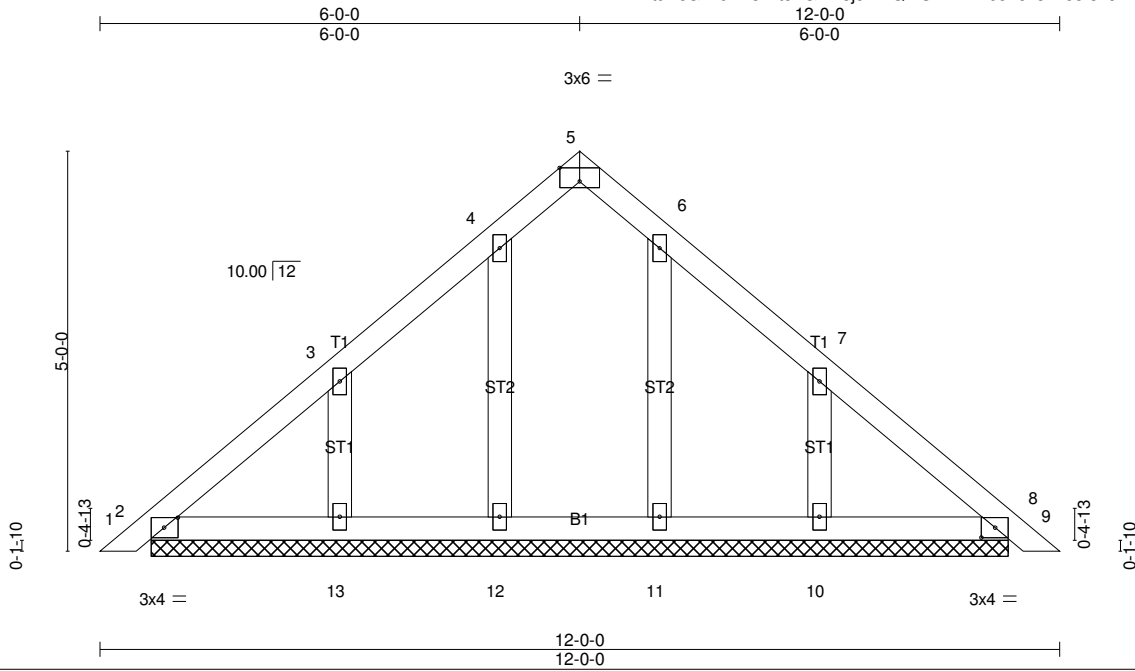
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right 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 - MASON ROOF
22-2455-A	PB04GE	GABLE	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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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-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOL 1.15		TC 0.08	Vert(LL) 0.00	8	n/r	180	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15		BC 0.04	Vert(CT) 0.00	9	n/r	120		
TCDL 10.0	Rep Stress Incr YES		WB 0.04	Horz(CT) 0.00	8	n/a	n/a		
BCLL 0.0 *	Code IRC2015/TPI2014		Matrix-S						
BCDL 10.0								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.

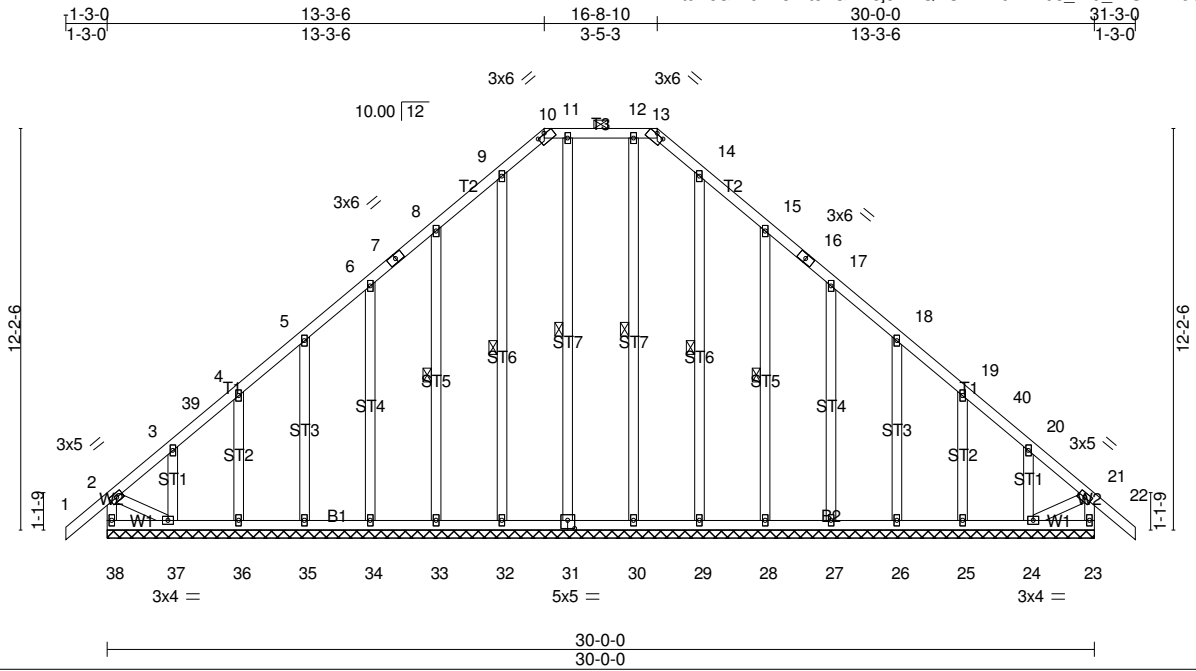
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right 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 - MASON ROOF
22-2455-A	T01	Piggyback Base Supported Gable	1	1	

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Wed Jun 15 16:52:39 2022 Page 1
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Scale = 1:70.0

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=322(LC 33), 32=269(LC 39), 33=293(LC 39), 34=286(LC 39), 35=289(LC 39), 36=281(LC 39), 29=269(LC 39), 28=293(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=-336/145, 2-3=-318/221, 20-21=-274/208, 21-23=-305/170
 BOT CHORD 37-38=-309/302, 36-37=-202/264, 35-36=-202/264, 34-35=-202/264, 33-34=-202/264, 32-33=-202/264, 31-32=-202/264, 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.
 - 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 - MASON ROOF
22-2455-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. Wed Jun 15 16:52:40 2022 Page 2
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NOTES-

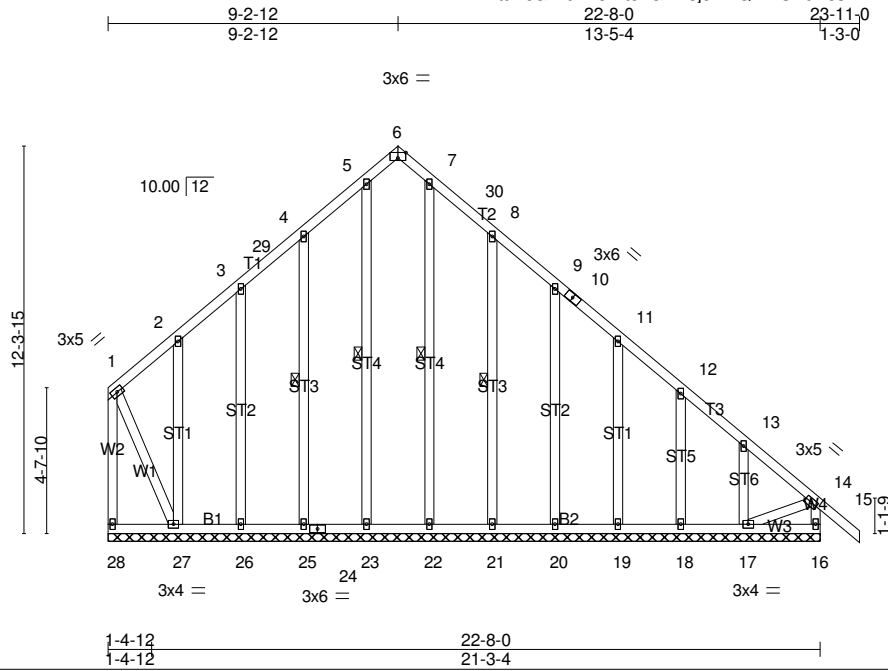
- 13) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T01GE	GABLE	1	1	

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Wed Jun 15 16:52:40 2022 Page 1
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Scale = 1:73.3

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

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) -0.01	15	n/r	180	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT) -0.01	15	n/r	120		
TCDL 10.0	Lumber DOL 1.15	WB 0.19	Horz(CT) 0.01	16	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 209 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, Except: 6-0-0 oc bracing: 16-17.
 WEBS 1 Row at midpt 5-23, 4-25, 7-22, 8-21

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, 13-14=-329/229, 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T01GE	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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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 22-2455-A	Truss T02	Truss Type Piggyback Base	Qty 5	Ply 1	CAIN - MASON 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. Wed Jun 15 16:52:41 2022 Page 1
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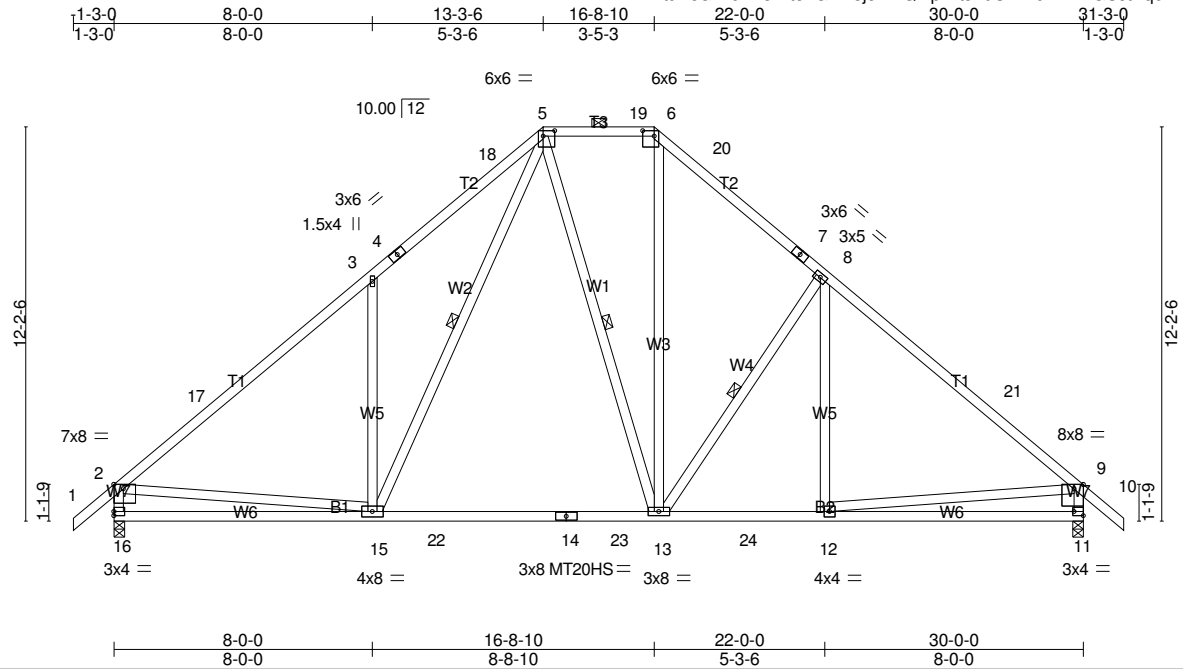


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [5:0-4-4,0-2-0], [6:0-4-4,0-2-0], [9:0-3-8,Edge], [11:Edge,0-1-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 0.99	Vert(LL) -0.28 13-15 >999 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.88	Vert(CT) -0.42 13-15 >847 240	MT20HS	187/143
TCDL 10.0	Rep Stress Incr YES	WB 0.93	Horz(CT) 0.04 11 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MS			
BCDL 10.0				Weight: 220 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* T3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-4-11 max.): 5-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-6-8 oc bracing.
WEBS 2x4 SP No.3 *Except* W7: 2x4 SP No.2	WEBS 1 Row at midpt 5-15, 5-13, 8-13
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-2219/229, 3-17=-1996/267, 3-4=-2253/501, 4-18=-2194/503, 5-18=-1935/538,
5-19=-1131/334, 6-19=-1131/334, 6-20=-1433/377, 7-20=-1692/342, 7-8=-1751/339,
8-21=-1987/273, 9-21=-2209/235, 2-16=-1834/292, 9-11=-1826/297
BOT CHORD 15-16=-368/724, 15-22=-38/1137, 14-22=-38/1137, 14-23=-38/1137, 13-23=-38/1137,
13-24=-16/1526, 12-24=-16/1526, 11-12=-189/540
WEBS 3-15=-870/390, 6-13=-139/691, 2-15=0/1063, 9-12=-17/1016, 5-15=-335/1080,
8-13=-683/263

- 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 = 12%, joint 9 = 16%
 - 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) 16=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.

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T02	Piggyback Base	5	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOAD CASE(S) Standard

Job 22-2455-A	Truss T03	Truss Type Piggyback Base	Qty 2	Ply 1	CAIN - MASON 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. Wed Jun 15 16:52:42 2022 Page 1
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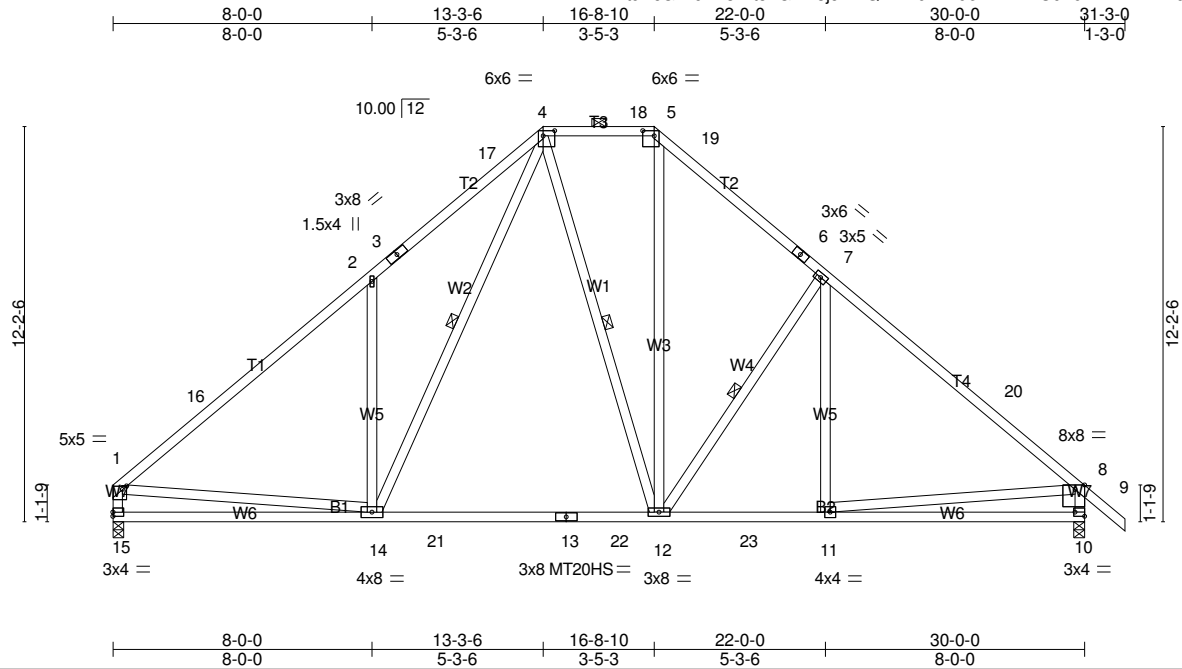


Plate Offsets (X,Y)-- [1:0-1-8,Edge], [4:0-4-4,0-2-0], [5:0-4-4,0-2-0], [8:0-3-8,Edge], [10:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.98	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.88	Vert(LL) -0.28 12-14 >999 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.98	Vert(CT) -0.42 12-14 >854 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 217 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP DSS *Except*
T3: 2x4 SP No.2, T4: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W7: 2x4 SP No.2

BRACING-

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

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

REACTIONS. (lb/size) 15=1278/0-4-0 (min. 0-2-2), 10=1375/0-4-0 (min. 0-2-4)
Max Horz 15=-324(LC 12)
Max Uplift15=-116(LC 16), 10=-146(LC 17)
Max Grav 15=1812(LC 39), 10=1908(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-2216/225, 2-16=-2015/263, 2-3=-2281/511, 3-17=-2222/513, 4-17=-1963/548,
4-18=-1134/335, 5-18=-1134/335, 5-19=-1408/378, 6-19=-1695/343, 6-7=-1754/340,
7-20=-1990/274, 8-20=-2211/236, 1-15=-1739/230, 8-10=-1828/297
BOT CHORD 14-15=-313/566, 14-21=-38/1138, 13-21=-38/1138, 13-22=-38/1138, 12-22=-38/1138,
12-23=-16/1528, 11-23=-16/1528, 10-11=-189/541
WEBS 2-14=-919/415, 5-12=-138/689, 7-12=-682/263, 1-14=0/1181, 8-11=-17/1017,
4-14=-348/1110

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 8 = 16%
- 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=116, 10=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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T03	Piggyback Base	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

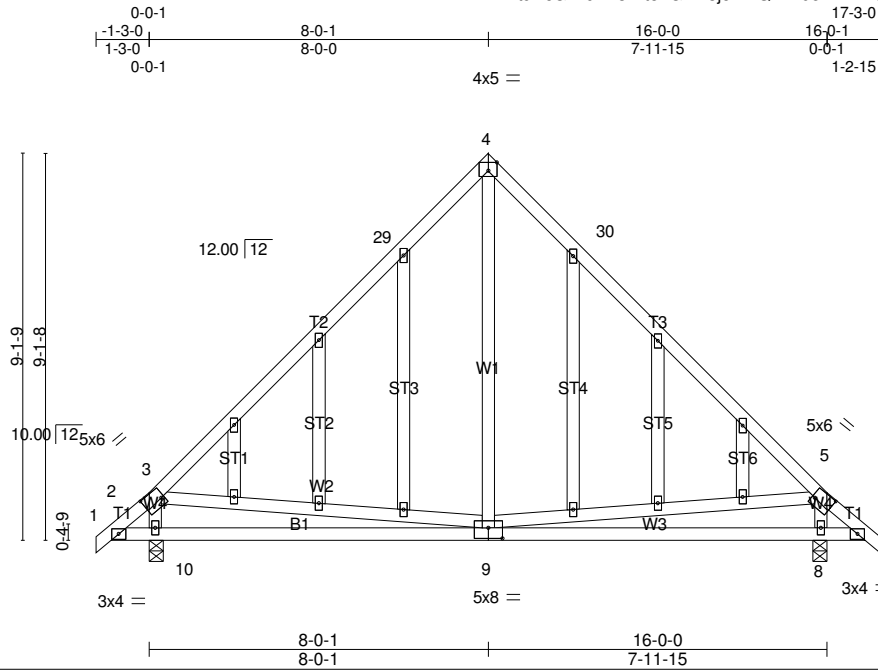
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LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T04	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. Wed Jun 15 16:52:43 2022 Page 1
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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: 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 - MASON ROOF
22-2455-A	T05	Roof Special	4	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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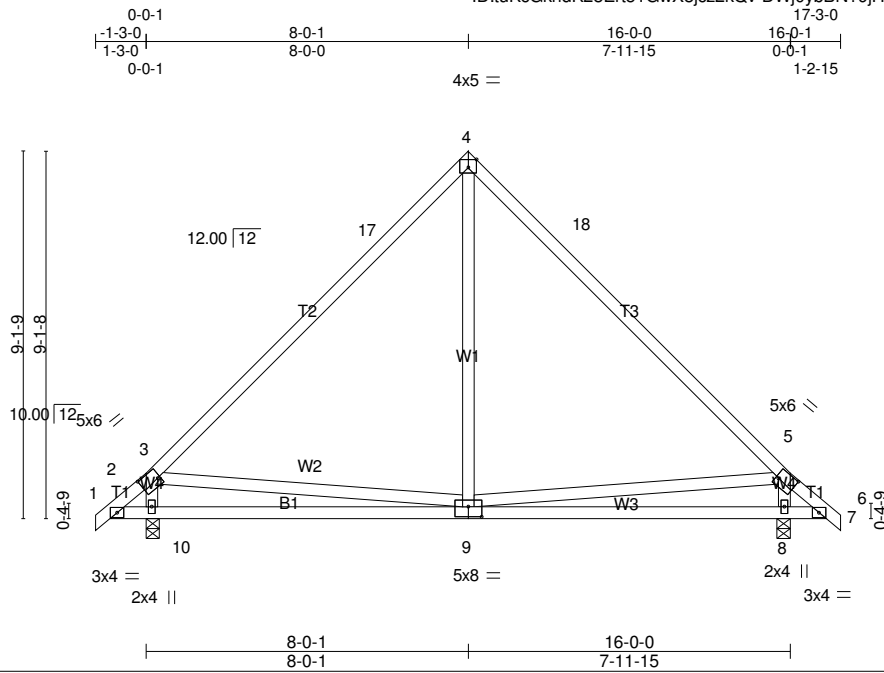


Plate Offsets (X,Y)-- [3:0-5-4,0-3-0], [4:0-2-7,Edge], [5:0-5-4,0-3-0], [9:0-4-0,0-3-0]

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	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: 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-

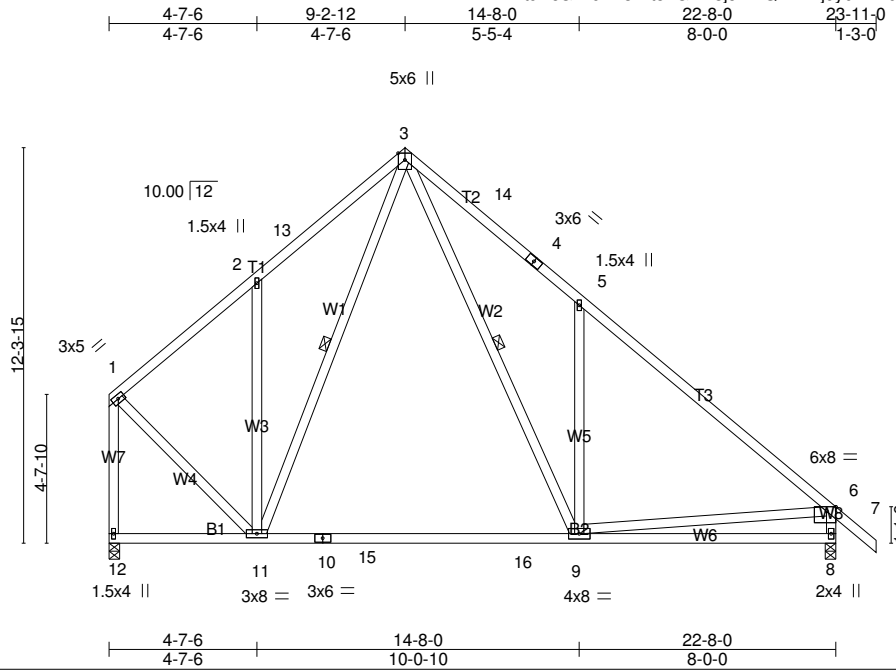
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; 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 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	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T06	Common	4	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:71.8

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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=-1123/441,
 4-5=-1258/421, 5-6=-1277/192, 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, 5-9=-590/388, 1-11=-81/806, 6-9=-24/615

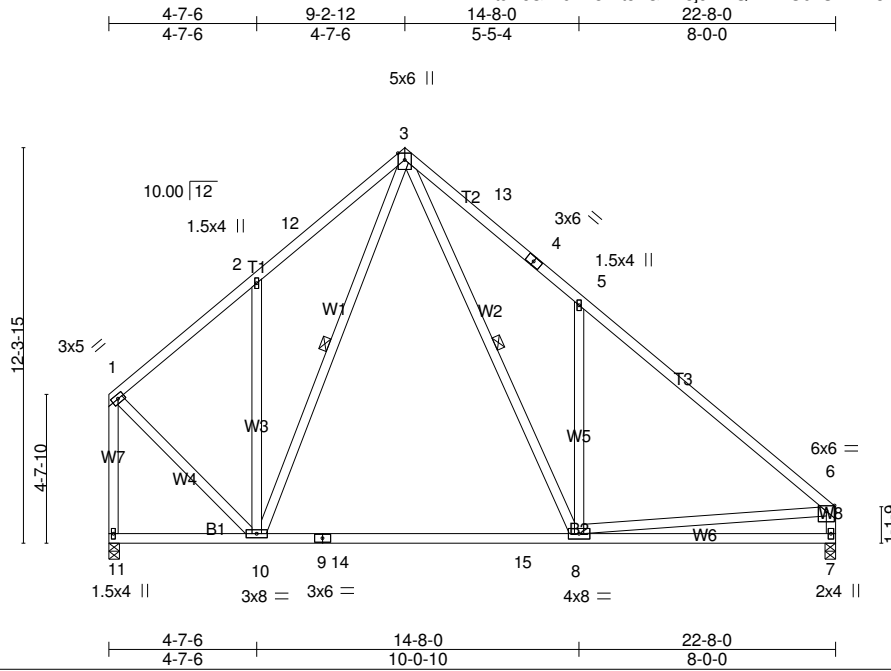
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left 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	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T07	COMMON	8	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:71.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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		
TCDL 10.0	Lumber DOL 1.15	WB 0.67	Vert(CT) -0.48 8-10 >556 240		
BCDL 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=-1148/440,
4-5=-1282/433, 5-6=-1277/188, 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, 5-8=-632/413, 1-10=-82/809, 6-8=0/692

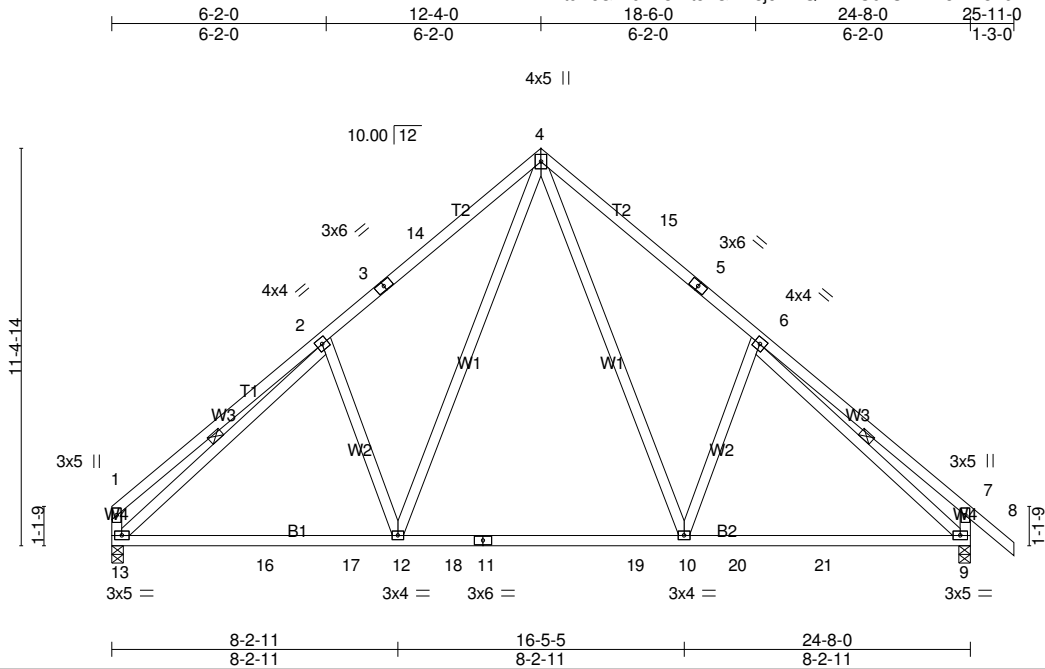
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 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	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T08	Common	4	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:66.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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		
BCDL 10.0	Lumber DOL 1.15	WB 0.53	Vert(CT) -0.23 10-12 >999 240		
TCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 9 n/a n/a		
BCLL 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 3-10-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-13, 6-9

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=-429/179, 2-3=-1332/322, 3-14=-1200/342, 4-14=-1186/366, 4-15=-1179/365,
 5-15=-1180/343, 5-6=-1324/321, 6-7=-473/233, 1-13=-398/158, 7-9=-537/238
 BOT CHORD 13-16=-137/1170, 16-17=-137/1170, 12-17=-137/1170, 12-18=0/796, 11-18=0/796,
 11-19=0/796, 10-19=0/796, 10-20=-25/1021, 20-21=-25/1021, 9-21=-25/1021
 WEBS 4-10=-193/683, 6-10=-360/303, 4-12=-196/696, 2-12=-376/307, 2-13=-1156/78,
 6-9=-1130/29

- 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
 - 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

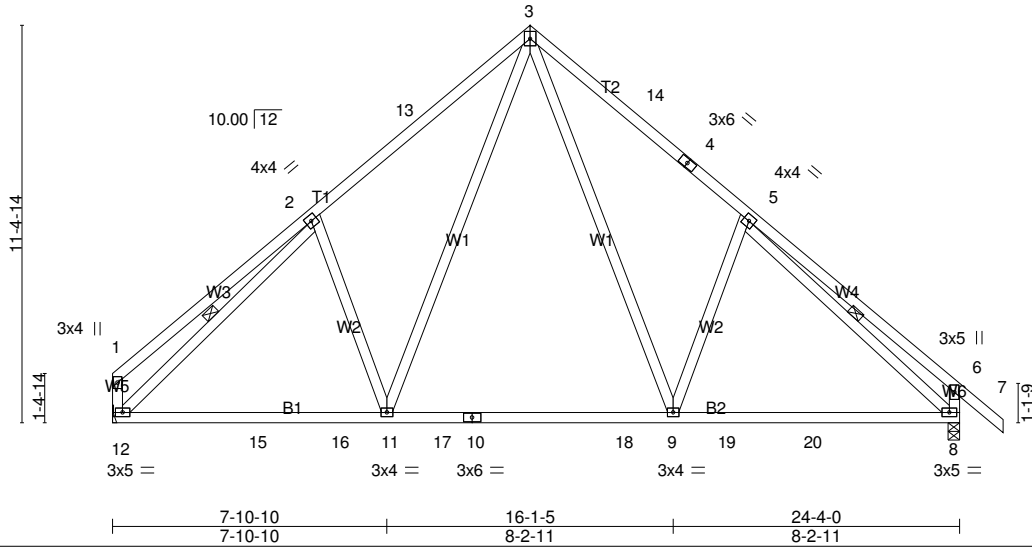
Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T09	Common	1	1	

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:66.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.73	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 9-11 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.52	Vert(CT) -0.24 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/TPI2014			Weight: 164 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 3-5-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-12, 5-8

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=-321/161, 2-13=-1281/335, 3-13=-1136/359, 3-14=-1154/361, 4-14=-1156/339,
 4-5=-1301/317, 5-6=-471/233, 1-12=-319/142, 6-8=-535/238
 BOT CHORD 12-15=-129/1114, 15-16=-129/1114, 11-16=-129/1114, 11-17=0/777, 10-17=0/777,
 10-18=0/777, 9-18=0/777, 9-19=-22/1004, 19-20=-22/1004, 8-20=-22/1004
 WEBS 3-11=-189/640, 2-11=-333/298, 3-9=-192/686, 5-9=-361/303, 2-12=-1206/101,
 5-8=-1108/26

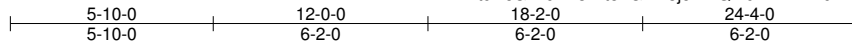
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left 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
 - 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) Refer to girder(s) for truss to truss connections.
 - 9) 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.
 - 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

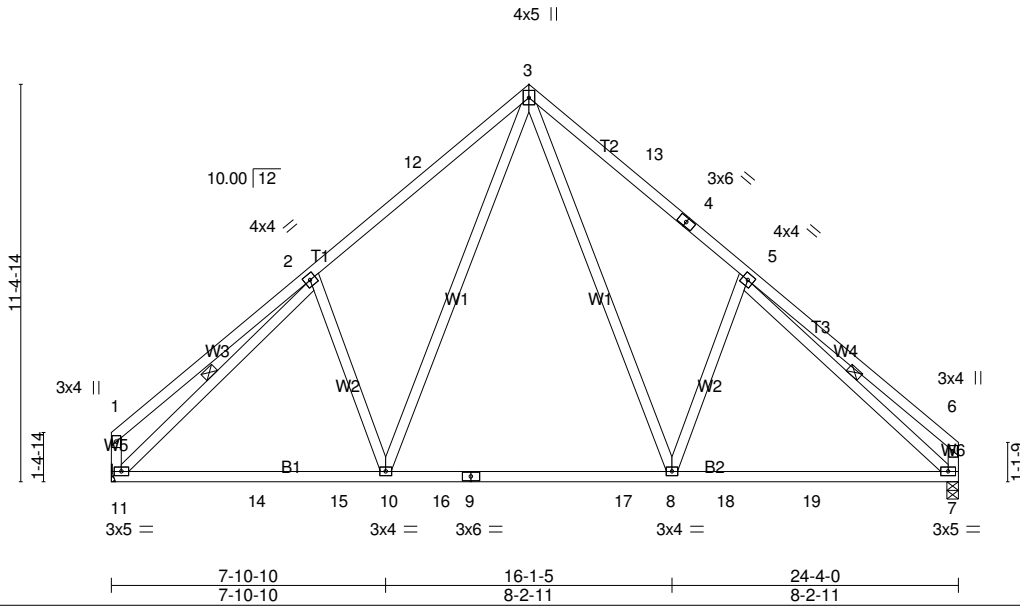
Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T10	Common	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Wed Jun 15 16:52:46 2022 Page 1
ID:tuKcGkndK28Ert51GwX8jcz2kQv-9vrmNHdDxmz???wK7p4UacX2NElmtke8slkw2pz6_nv



Scale = 1:66.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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 0.73	Vert(LL) -0.16 8-10 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.53	Vert(CT) -0.24 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 3-8-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-11, 5-7

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 12)
 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=-321/160, 2-12=-1285/338, 3-12=-1139/360, 3-13=-1166/364, 4-13=-1167/342,
 4-5=-1313/320, 5-6=-427/179, 1-11=-318/142, 6-7=-396/158
 BOT CHORD 11-14=-149/1102, 14-15=-149/1102, 10-15=-149/1102, 10-16=-5/765, 9-16=-5/765,
 9-17=-5/765, 8-17=-5/765, 8-18=-92/1000, 18-19=-92/1000, 7-19=-92/1000
 WEBS 3-10=-189/641, 2-10=-333/299, 3-8=-195/700, 5-8=-377/308, 2-11=-1211/102,
 5-7=-1138/75

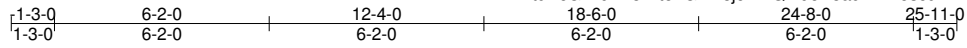
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left 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
 - 4) Unbalanced snow loads have been considered for this design.
 - 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) 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

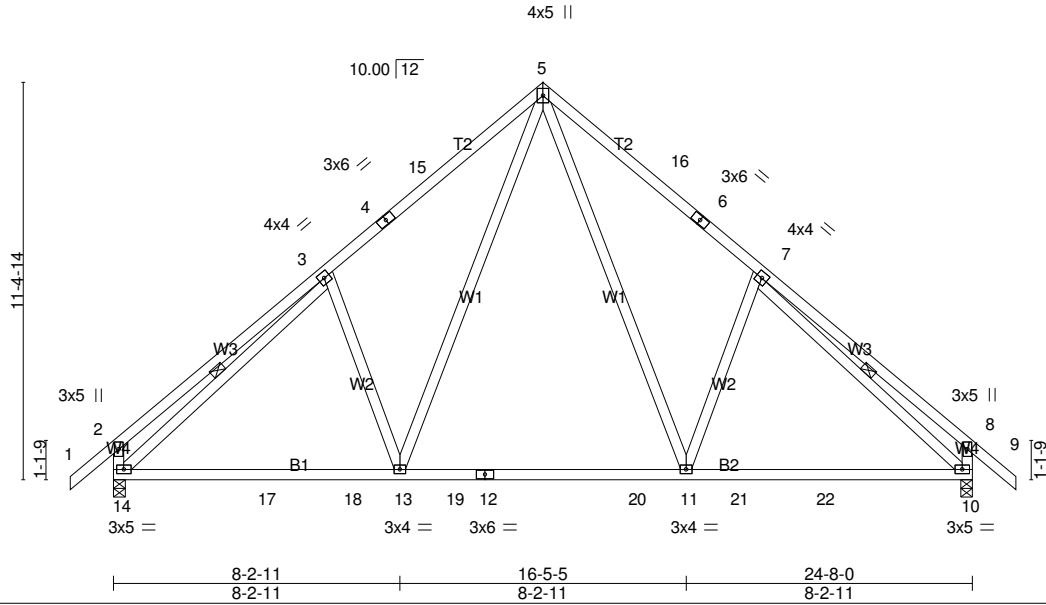
Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T11	Common	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Wed Jun 15 16:52:47 2022 Page 1
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Scale = 1:66.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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 10.0	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 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 3-14, 7-10

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=-474/233, 3-4=-1320/320, 4-15=-1188/339, 5-15=-1175/363, 5-16=-1176/363,
 6-16=-1188/339, 6-7=-1320/320, 7-8=-474/233, 2-14=-537/238, 8-10=-537/238
 BOT CHORD 14-17=-134/1157, 17-18=-134/1157, 13-18=-134/1157, 13-19=0/793, 12-19=0/793,
 12-20=0/793, 11-20=0/793, 11-21=-24/1018, 21-22=-24/1018, 10-22=-24/1018
 WEBS 5-11=-192/683, 7-11=-360/303, 5-13=-192/682, 3-13=-360/303, 3-14=-1126/28,
 7-10=-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 - MASON ROOF
22-2455-A	T13	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. Wed Jun 15 16:52:48 2022 Page 1
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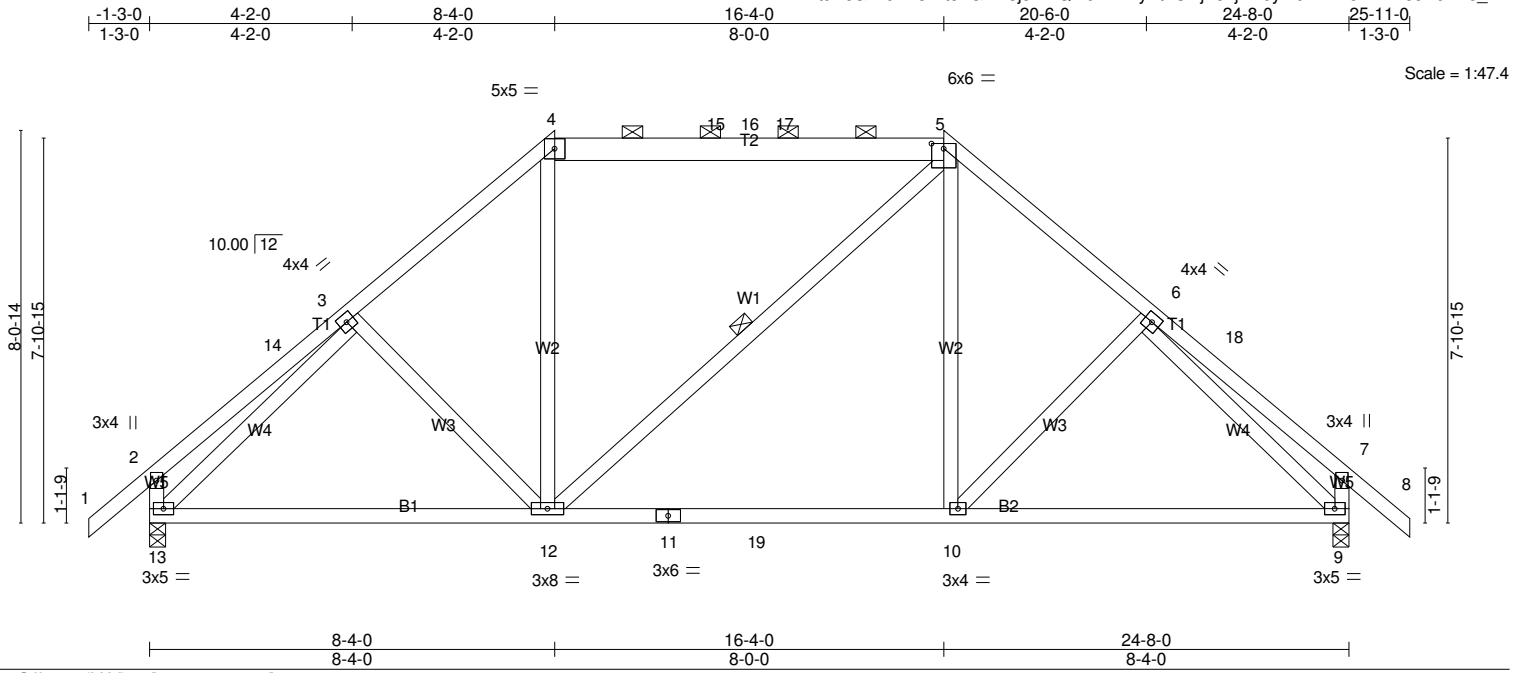


Plate Offsets (X,Y)-- [5:0-3-0,0-1-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.45	Vert(LL)	-0.14 10-12	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.61	Vert(CT)	-0.21 10-12	>999	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.84	Horz(CT)	0.04 9	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						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 14)
 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 22-2455-A	Truss T14	Truss Type Hip Girder	Qty 1	Ply 2	CAIN - MASON ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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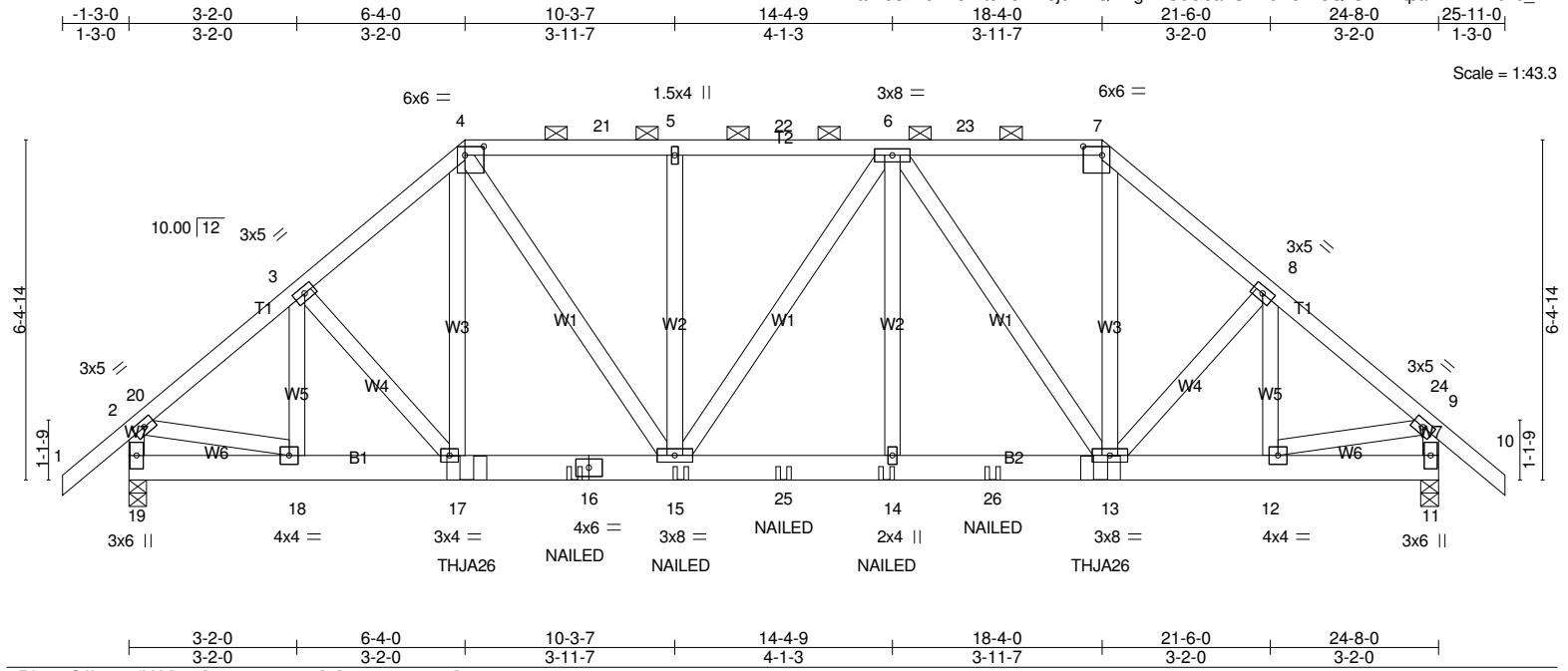


Plate Offsets (X,Y)-- [4:0-4-4,0-2-0], [7:0-4-4,0-2-0]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 0.25	Vert(LL) -0.06 14-15 >999 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.09 14-15 >999 240		
TCDL 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%

LUMBER-	BRACING-
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 - MASON ROOF
22-2455-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) 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) 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)

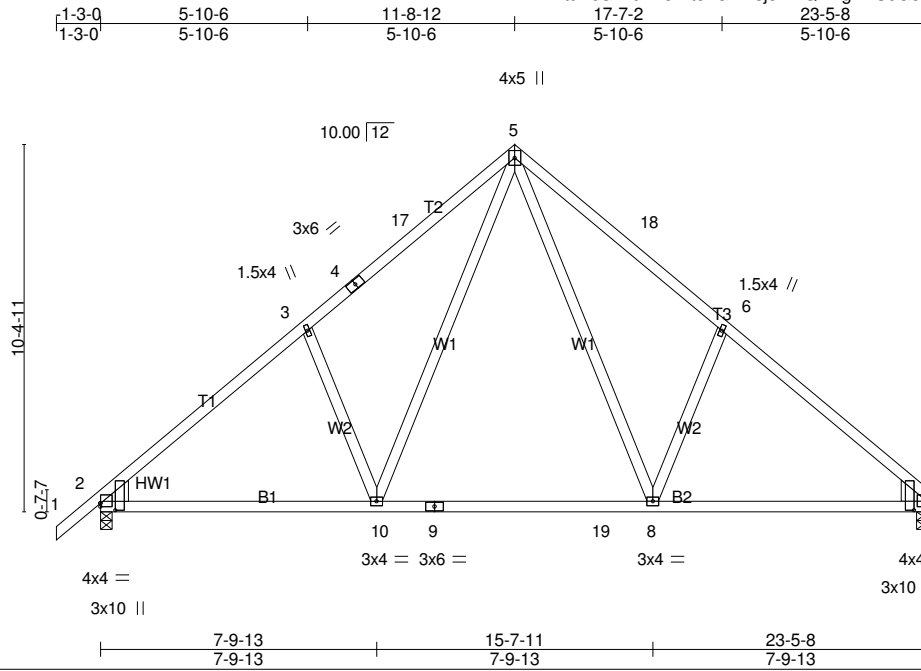
Vert: 1-2=-66, 2-4=-66, 4-7=-66, 7-9=-66, 9-10=-66, 11-19=-20

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 22-2455-A	Truss T15	Truss Type Common	Qty 1	Ply 1	CAIN - MASON 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. Wed Jun 15 16:52:50 2022 Page 1
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Scale = 1:65.2

Plate Offsets (X,Y)-- [2:0-0-0,0-1-3], [2:0-2-6,0-5-1], [7:Edge,0-1-3], [7:0-2-6,0-5-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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 0.63	Vert(LL) -0.20 8-10 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.43	Vert(CT) -0.27 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: 135 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x8 SP DSS , Right: 2x8 SP DSS

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-1-10 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=-1456/226, 3-4=-1323/309, 4-17=-1163/329, 5-17=-1160/350, 5-18=-1167/353,
 6-18=-1331/329, 6-7=-1462/228
 BOT CHORD 2-10=-157/1130, 9-10=0/739, 9-19=0/739, 8-19=0/739, 7-8=-72/1042
 WEBS 5-8=-190/682, 6-8=-417/277, 5-10=-185/667, 3-10=-410/274

- 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 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 - MASON ROOF
22-2455-A	T16	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. Wed Jun 15 16:52:51 2022 Page 1
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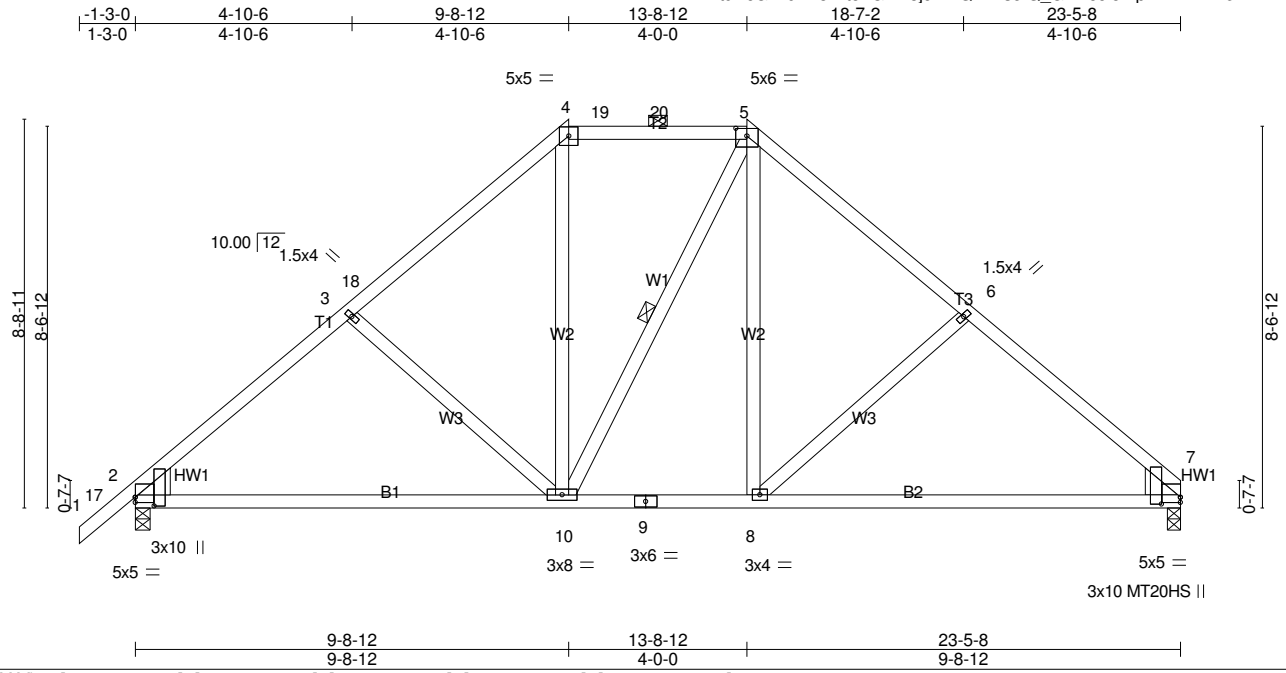


Plate Offsets (X,Y)-- [2:0-2-6,0-5-1], [2:0-0-0,0-1-7], [5:0-3-0,0-2-1], [7:0-0-0,0-1-7], [7:0-1-14,0-5-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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 0.65	Vert(LL) -0.16 8-16 >999 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.40	Vert(CT) -0.32 8-16 >877 240		
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: 141 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x8 SP DSS , Right: 2x8 SP DSS

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-8-11 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 Horz2=216(LC 13)
 Max Uplift2=-126(LC 16), 7=-98(LC 17)
 Max Grav2=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=-1860/252, 3-18=-1469/223, 4-18=-1431/261, 4-19=-961/256, 19-20=-961/256,
 5-20=-961/256, 5-6=-1472/263, 6-7=-1834/254
 BOT CHORD 2-10=-165/1336, 9-10=0/962, 8-9=0/962, 7-8=-103/1345
 WEBS 3-10=-488/201, 4-10=-46/453, 5-8=-63/504, 6-8=-499/205

- 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) 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	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T17	Hip Girder	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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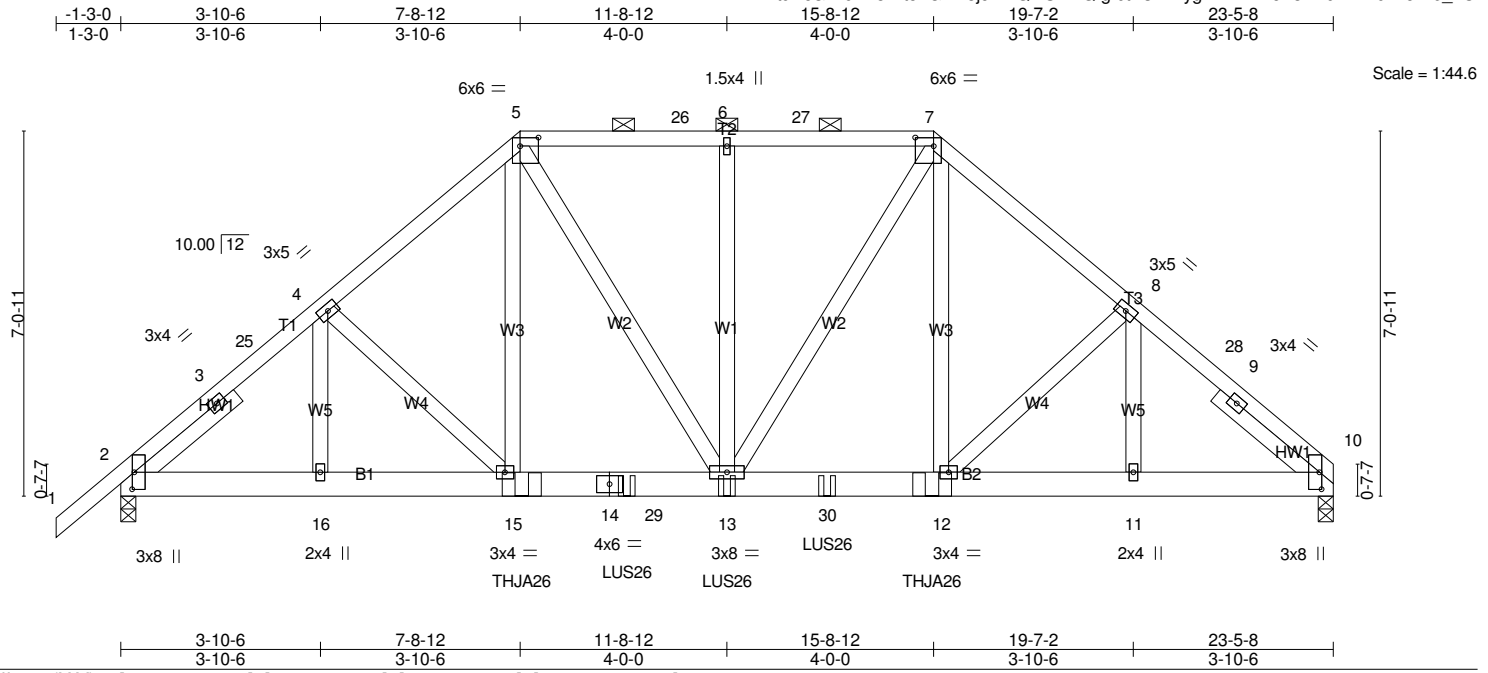


Plate Offsets (X,Y)-- [2:0-3-15,0-0-8], [5:0-4-4,0-2-0], [7:0-4-4,0-2-0], [10:0-3-15,0-0-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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 0.41	Vert(LL) -0.05 12-13 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.29	Vert(CT) -0.09 12-13 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.03 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 360 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.2 -p 2-6-0, Right 2x4 SP No.2 -p 2-6-0	

REACTIONS. (lb/size) 10=2522/0-3-8 (min. 0-1-11), 2=2620/0-3-8 (min. 0-1-12)
 Max Horz 2=176(LC 63)
 Max Uplift 10=-631(LC 17), 2=-662(LC 16)
 Max Grav 10=2826(LC 39), 2=3009(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2209/557, 3-25=-3621/943, 4-25=-3503/958, 4-5=-3571/1046, 5-26=-3035/933,
 6-26=-3035/933, 6-27=-3035/933, 7-27=-3035/933, 7-8=-3580/1048, 8-28=-3620/966,
 9-28=-3657/952, 9-10=-2335/586
 BOT CHORD 2-16=-697/2714, 15-16=-697/2714, 14-15=-678/2629, 14-29=-678/2629, 13-29=-678/2629,
 13-30=-612/2632, 12-30=-612/2632, 11-12=-659/2746, 10-11=-659/2746
 WEBS 4-15=-382/275, 5-15=-414/1385, 5-13=-253/822, 6-13=-551/137, 7-13=-253/819,
 7-12=-418/1401, 8-12=-413/285

- 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) 10=631 , 2=662.

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T17	Hip Girder	1	2	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. Wed Jun 15 16:52:53 2022 Page 2
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NOTES-

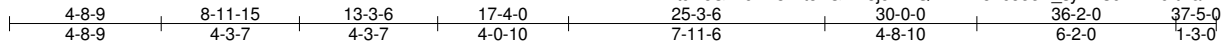
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 7-9-2 from the left end to connect truss(es) 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) 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) 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: 1-5=-66, 5-7=-66, 7-10=-66, 17-21=-20
 - Concentrated Loads (lb)
 - Vert: 15=-1010(B) 13=-344(B) 12=-1010(B) 29=-344(B) 30=-344(B)

Job 22-2455-A	Truss T18	Truss Type Piggyback Base	Qty 1	Ply 1	CAIN - MASON 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. Wed Jun 15 16:52:54 2022 Page 1
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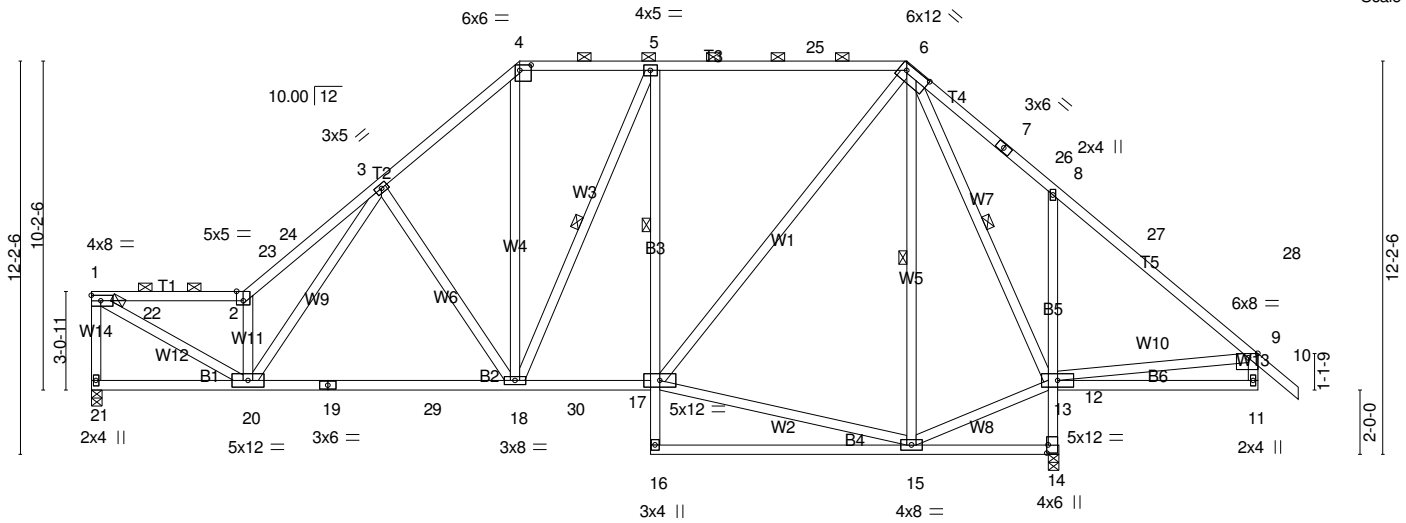


Plate Offsets (X,Y)-- [2:0-2-8,Edge], [4:0-4-4-0-2-0], [6:0-9-4-0-2-4], [9:0-3-8,Edge], [14:0-3-0-0-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOL 1.15		TC 1.00	Vert(LL) -0.21	18-20	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15		BC 0.81	Vert(CT) -0.38	18-20	>940	240		
TCDL 10.0	Rep Stress Incr YES		WB 0.98	Horz(CT) 0.05	14	n/a	n/a		
BCLL 0.0 *	Code IRC2015/TPI2014		Matrix-MS						
BCDL 10.0								Weight: 293 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* T3: 2x4 SP DSS	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-4-4 max.): 1-2, 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: 14-15.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-17 3-8-0 oc bracing: 12-14 1 Row at midpt 5-18, 6-15, 6-12
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 21=1201/0-4-0 (min. 0-1-13), 14=1987/0-4-0 (min. 0-2-15)
Max Horz 21=-299(LC 12)
Max Uplift 21=-120(LC 16), 14=-146(LC 17)
Max Grav 21=1513(LC 40), 14=2474(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-1469/194, 1-22=-2080/255, 2-22=-2080/255, 2-23=-2652/373, 23-24=-2560/377,
3-24=-2557/396, 3-4=-1504/302, 4-5=-1098/274, 5-25=-1197/279, 6-25=-1197/279,
6-7=-9/765, 7-26=-25/445, 8-26=-29/435, 8-27=-216/840, 27-28=-242/591, 9-28=-246/374
BOT CHORD 20-21=-241/268, 19-20=-199/1401, 19-29=-199/1401, 18-29=-199/1401, 18-30=-161/1188,
17-30=-161/1189, 5-17=-728/207, 11-12=-129/302, 12-14=-2448/626, 8-12=-712/311
WEBS 1-20=-265/2365, 2-20=-1948/348, 3-20=-163/1073, 3-18=-793/243, 4-18=-107/748,
5-18=-226/448, 15-17=-80/474, 6-17=-167/1187, 12-15=-68/558, 6-12=-1704/317,
9-12=-764/431

- 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) 21=120, 14=146.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T18	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

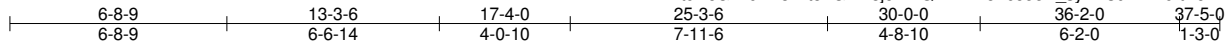
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T19	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. Wed Jun 15 16:52:54 2022 Page 1
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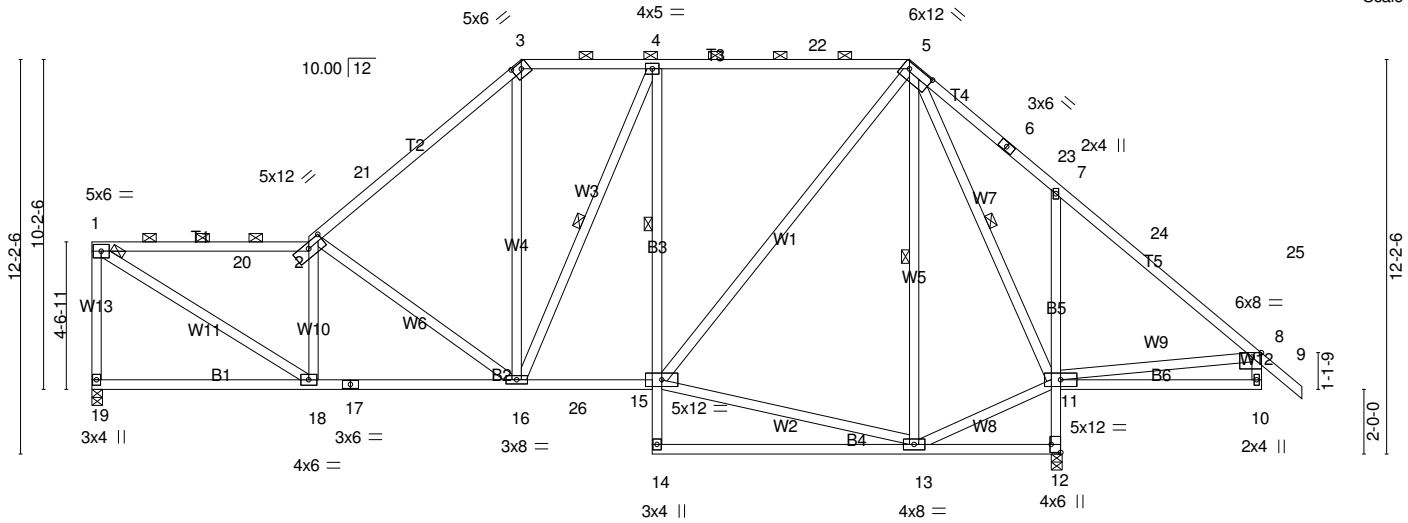


Plate Offsets (X,Y)--	[2:0-6-0-0-2-0], [3:0-3-2-0-2-2], [5:0-9-4-0-2-4], [8:0-3-8,Edge], [12:Edge,0-3-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.58	Vert(LL) -0.13 13-14 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.97	Vert(CT) -0.28 13-14 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 291 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP DSS *Except* T4, T5: 2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* B3: 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 3-8-2 oc bracing: 11-12.
WEBS	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=1201/0-4-0 (min. 0-1-15), 12=1984/0-4-0 (min. 0-2-14)
 Max Horz 19=-317(LC 12)
 Max Uplift 19=-129(LC 16), 12=-148(LC 17)
 Max Grav 19=1659(LC 40), 12=2436(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-19=-1592/228, 1-20=-1906/269, 2-20=-1903/269, 2-21=-1613/230, 3-21=-1527/264,
 3-4=-1151/282, 4-22=-1239/270, 5-22=-1239/270, 5-6=-9/766, 6-23=-25/446, 7-23=-29/435,
 7-24=-216/840, 24-25=-242/591, 8-25=-246/374
 BOT CHORD 18-19=-229/275, 17-18=-200/1868, 16-17=-200/1868, 16-26=-160/1232, 15-26=-159/1232,
 4-15=-745/213, 10-11=-129/302, 11-12=-2419/623, 7-11=-711/310
 WEBS 1-18=-278/2187, 2-18=-1044/240, 2-16=-850/222, 3-16=-71/771, 4-16=-227/389,
 13-15=-79/484, 5-15=-164/1234, 8-11=-765/431, 11-13=-66/561, 5-11=-1702/319

- 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.
 - 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	CAIN - MASON ROOF
22-2455-A	T19	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. Wed Jun 15 16:52:55 2022 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 - MASON ROOF
22-2455-A	T20	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. Wed Jun 15 16:52:55 2022 Page 2
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NOTES-

- 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 - MASON ROOF
22-2455-A	T21	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T22	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. Wed Jun 15 16:52:57 2022 Page 1
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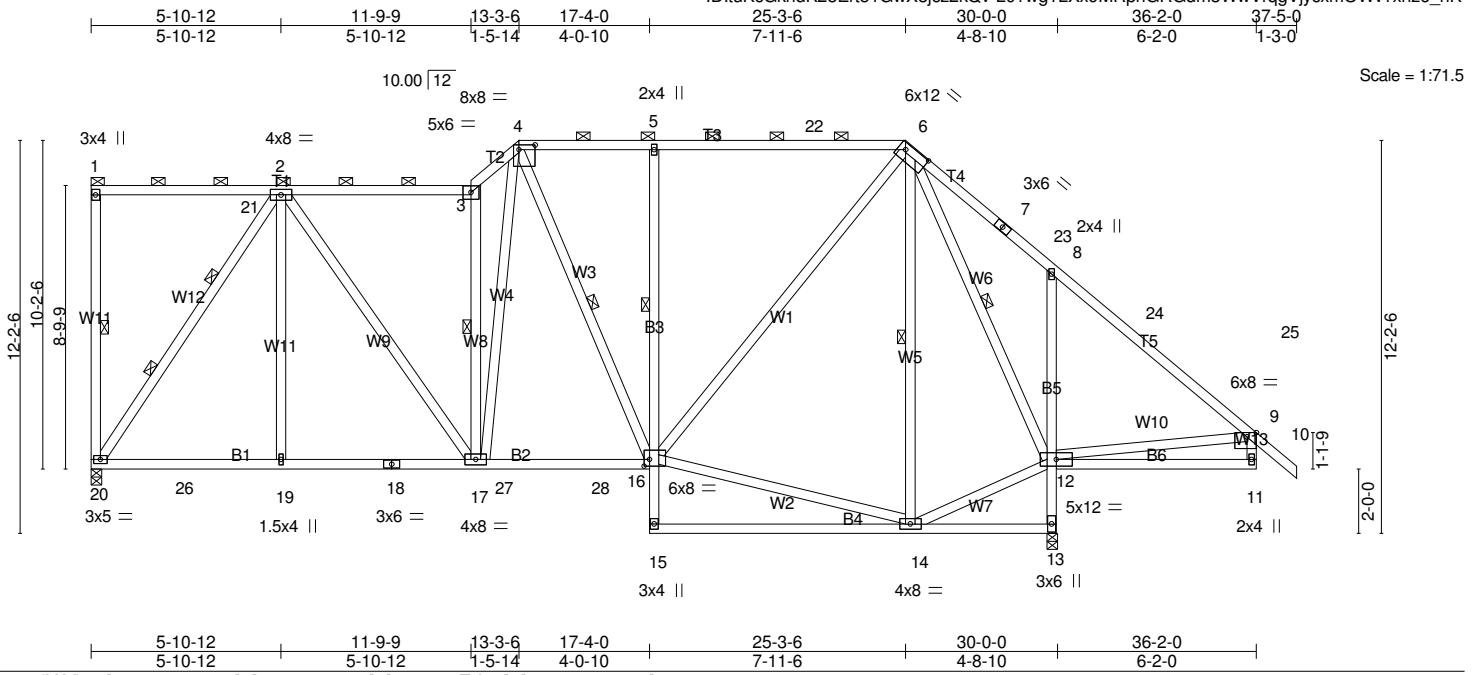


Plate Offsets (X,Y)-- [4:0-6-0,0-1-12], [6:0-9-4,0-2-4], [9:0-3-8,Edge], [16:0-2-0,0-2-8]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.71	Vert(LL) -0.13 14-15 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 1.00	Vert(CT) -0.27 14-15 >999 240		
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: 320 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* T1: 2x4 SP No.1, T3: 2x4 SP DSS	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 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 3-9-7 oc bracing: 12-13.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-16 1 Row at midpt 1-20, 3-17, 4-16, 6-14, 6-12 2 Rows at 1/3 pts 2-20
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 20=1201/0-4-0 (min. 0-2-5), 13=1984/0-4-0 (min. 0-2-12)
 Max Horz 20=-372(LC 12)
 Max Uplift 20=-232(LC 12), 13=-145(LC 17)
 Max Grav 20=1975(LC 41), 13=2307(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=-1580/263, 3-4=-2127/395, 4-5=-1404/268, 5-22=-1411/271,
 6-22=-1411/271, 6-7=-9/766, 7-23=-25/445, 8-23=-29/435, 8-24=-216/840, 24-25=-242/591,
 9-25=-246/374
 BOT CHORD 20-26=-148/1138, 19-26=-148/1138, 18-19=-148/1138, 17-18=-148/1138, 17-27=-148/1381,
 27-28=-148/1381, 16-28=-148/1381, 5-16=-927/204, 11-12=-129/302, 12-13=-2289/622,
 8-12=-712/311
 WEBS 2-20=-1983/267, 2-19=0/333, 2-17=-128/786, 3-17=-1743/354, 14-16=-75/551,
 6-16=-162/1427, 4-17=-238/1234, 12-14=-65/623, 6-12=-1754/318, 9-12=-765/431

- 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) 20=232, 13=145.

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T22	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

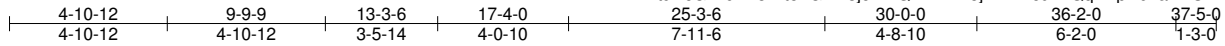
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T23	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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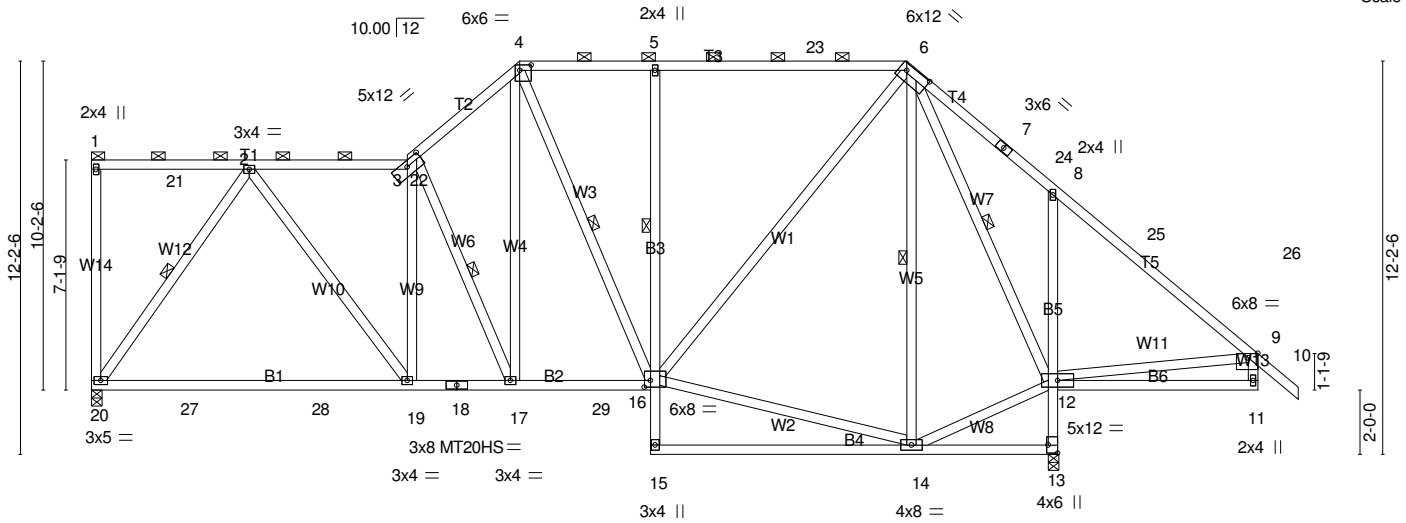


Plate Offsets (X,Y)--	[3:0-6-0,0-2-0], [4:0-4-4,0-2-0], [6:0-9-4,0-2-4], [9:0-3-8,Edge], [13:Edge,0-3-8], [16:0-2-4,0-2-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 1.00	Vert(LL) -0.26	19-20	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.71	Vert(CT) -0.48	19-20	>748	240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.97	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-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* T3: 2x4 SP DSS	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-8-13 max.): 1-3, 4-6.
BOT CHORD 2x4 SP No.2 *Except* B1: 2x4 SP DSS, 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 3-8-15 oc bracing: 12-13.
WEBS 2x4 SP No.3	WEBS 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=1201/0-4-0 (min. 0-1-14), 13=1984/0-4-0 (min. 0-2-13)
Max Horz 20=-350(LC 12)
Max Uplift 20=-173(LC 12), 13=-146(LC 17)
Max Grav 20=1860(LC 41), 13=2360(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-1687/250, 3-22=-1683/250, 3-4=-1748/313, 4-5=-1324/268, 5-23=-1331/271,
6-23=-1331/271, 6-7=-9/765, 7-24=-25/445, 8-24=-29/435, 8-25=-216/840, 25-26=-242/591,
9-26=-246/374
BOT CHORD 20-27=-180/1083, 27-28=-180/1083, 19-28=-180/1083, 18-19=-164/1671, 17-18=-164/1671,
17-29=-150/1272, 16-29=-150/1272, 5-16=-937/204, 11-12=-129/302, 12-13=-2343/623,
8-12=-712/310
WEBS 2-20=-1870/282, 2-19=-82/1012, 3-19=-627/190, 3-17=-885/180, 4-17=-143/823,
4-16=-286/144, 14-16=-75/518, 6-16=-162/1337, 9-12=-765/431, 12-14=-66/591,
6-12=-1702/318

- 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	CAIN - MASON ROOF
22-2455-A	T23	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

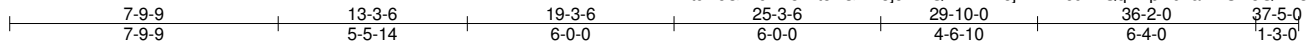
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=173, 13=146.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 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 - MASON ROOF
22-2455-A	T24	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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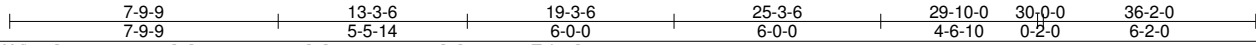
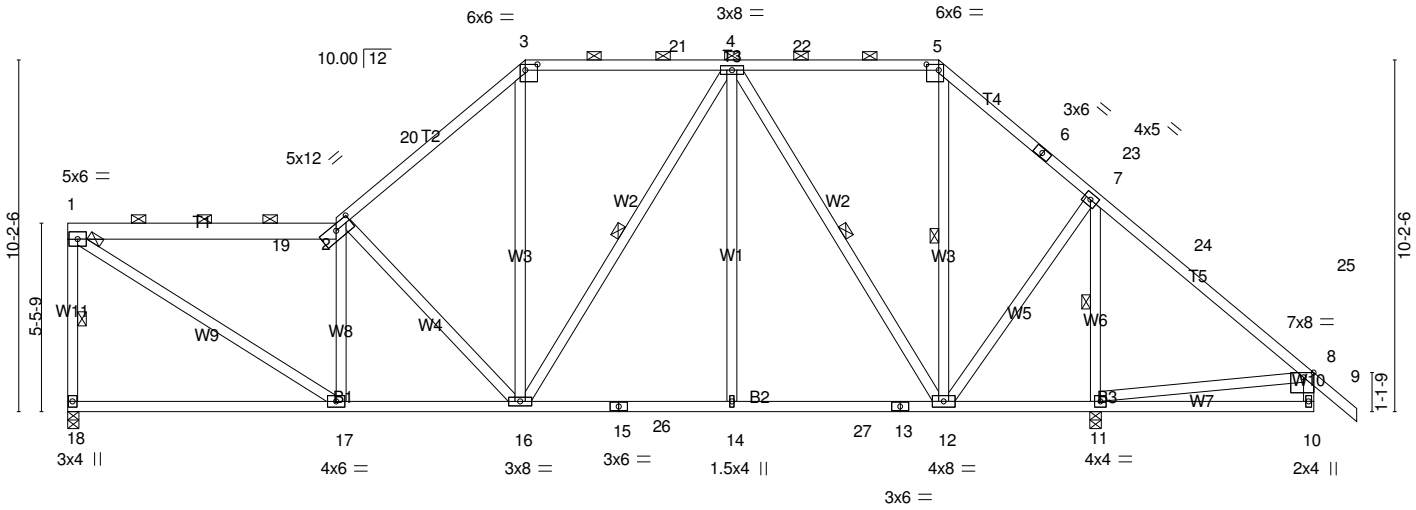


Plate Offsets (X,Y)-- [2:0-6-0,0-2-0], [3:0-4-4,0-2-0], [5:0-4-4,0-2-0], [8:0-3-8,Edge]

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)	-0.12	17-18	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.58	Vert(CT)	-0.25	17-18	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.87	Horz(CT)	0.04	11	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						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 (4-7-12 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, 7-11

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, 5-6=-682/149,
6-23=-760/117, 7-23=-771/117, 7-24=-215/842, 24-25=-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,
14-27=-144/1188, 13-27=-144/1188, 12-13=-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=-28/635, 4-16=-101/378,
4-14=0/367, 4-12=-1206/191, 7-12=-140/1277, 7-11=-2170/475, 8-11=-781/437

- 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) 18=135, 11=147.
 - 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 - MASON ROOF
22-2455-A	T25	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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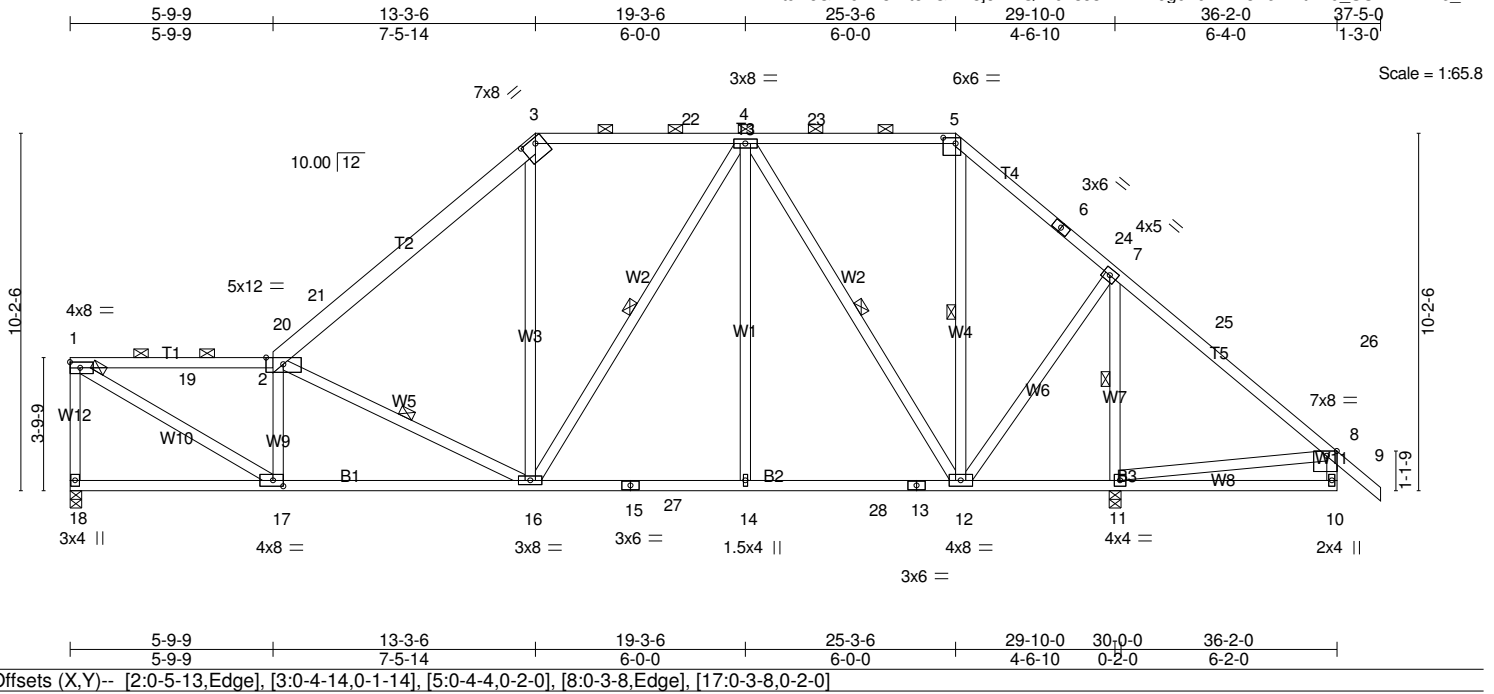


Plate Offsets (X,Y)-- [2:0-5-13,Edge], [3:0-4-14,0-1-14], [5:0-4-4,0-2-0], [8:0-3-8,Edge], [17:0-3-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 1.00	Vert(LL)	-0.10 16-17	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.64	Vert(CT)	-0.21 16-17	>999	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.95	Horz(CT)	0.05 11	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
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, 7-11

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 12)
 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,
 5-6=-659/155, 6-24=-737/123, 7-24=-748/123, 7-25=-215/842, 25-26=-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,
 14-28=-145/1153, 13-28=-145/1153, 12-13=-145/1153, 11-12=-456/314, 10-11=-135/317
 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, 7-12=-140/1254, 7-11=-2211/474, 8-11=-781/437

- 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) 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.
 - 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 - MASON ROOF
22-2455-A	T25	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

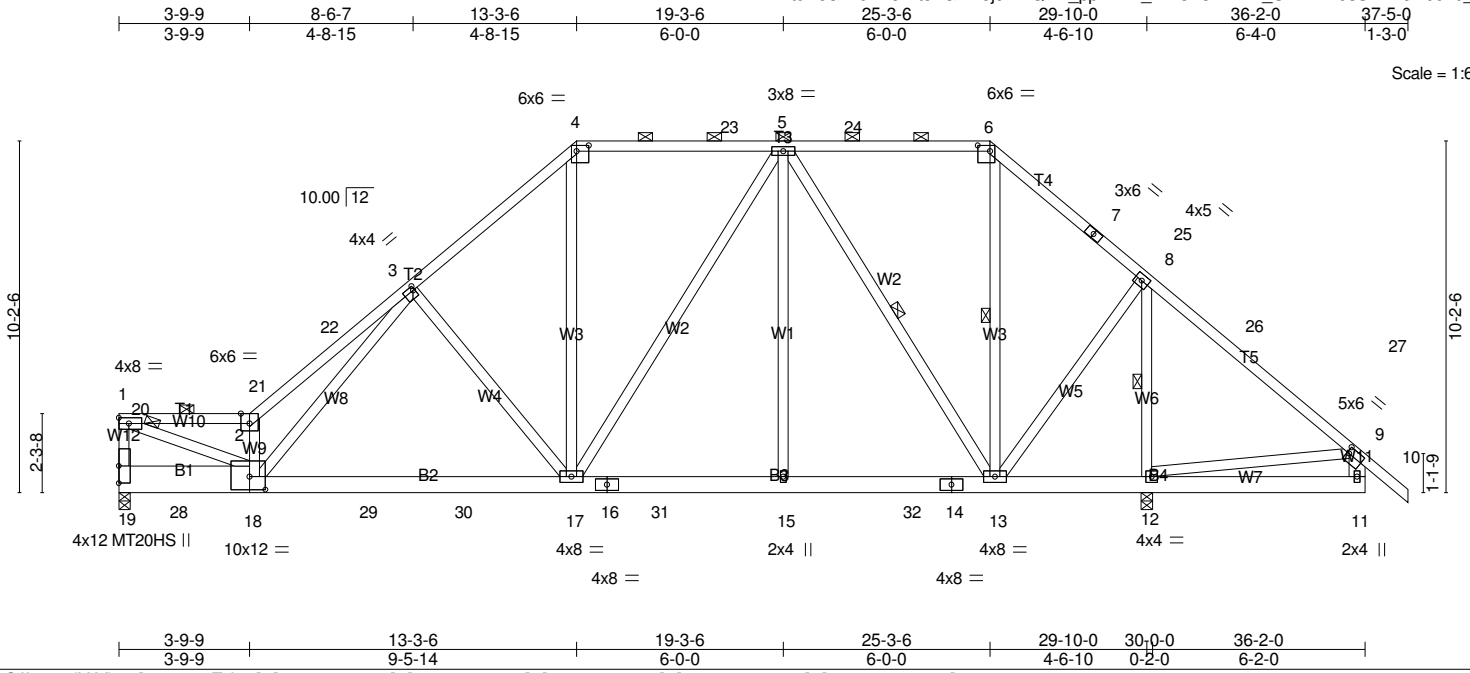
Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Wed Jun 15 16:53:01 2022 Page 2
ID:tuKcGkndK28Ert51GwX8jcz2kQv-DnFRWPO1_NstJaDVTr?gmfXwHvkuRiMJ7iC4Sz6_nG

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-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. Wed Jun 15 16:53:02 2022 Page 1
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Scale = 1:66.9

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], [9:0-0-12,0-2-4], [18:0-5-8,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.88	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-
TOP CHORD 2x4 SP No.1 *Except*
T1: 2x4 SP No.2, T2: 2x4 SP DSS
BOT CHORD 2x6 SP No.2 *Except*
B1: 2x10 SP No.2
WEBS 2x4 SP No.3 *Except*
W10,W8,W4: 2x4 SP No.2, W11: 2x6 SP No.2

BRACING-
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 Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
WEBS 1 Row at midpt 5-13, 6-13, 8-12

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

REACTIONS. (lb/size) 19=2627/0-4-0 (min. 0-3-6), 12=2056/0-4-0 (min. 0-3-0)
Max Horz 19=-284(LC 12)
Max Uplift 12=-75(LC 17)
Max Grav 19=2868(LC 40), 12=2553(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=-3294/0, 2-20=-3294/0, 2-21=-4341/0, 21-22=-4268/0, 3-22=-4141/0, 3-4=-1719/128, 4-23=-1243/151, 5-23=-1243/151, 5-24=-561/132, 6-24=-561/132, 6-7=-692/111, 7-25=-770/80, 8-25=-781/79, 8-26=-216/827, 26-27=-241/587, 9-27=-244/358
BOT CHORD 19-28=-136/365, 18-28=-202/299, 18-29=0/1755, 29-30=0/1755, 17-30=0/1755, 16-17=-63/1239, 16-31=-63/1239, 15-31=-63/1239, 15-32=-63/1239, 14-32=-63/1239, 13-14=-63/1239, 12-13=-451/317, 11-12=-118/293
WEBS 1-18=0/3566, 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=-1205/108, 8-13=-79/1295, 8-12=-2275/390, 9-12=-751/412

- 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) 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 - MASON ROOF
22-2455-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. Wed Jun 15 16:53:02 2022 Page 2
ID:tuKcGkndK28Er51GwX8jcz2kQv-h_ppkIPflh_kvT8P3AMED_CkPhDndsSVXncmduz6_nF

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 - MASON ROOF
22-2455-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. Wed Jun 15 16:53:02 2022 Page 3
ID:tuKcGkndK28Ert51GwX8jcz2kQv-h_ppkIPflh_kvT8P3AMED_CkPhDndsSVXncmduz6_nF

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=-1, 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 - MASON ROOF
22-2455-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. Wed Jun 15 16:53:02 2022 Page 4
ID:tuKcGkndK28Ert51GwX8jcz2kQv-h_ppkIPflh_kvT8P3AMED_CkPhDndsSVXncmduz6_nF

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 - MASON ROOF
22-2455-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. Wed Jun 15 16:53:02 2022 Page 5
ID:tuKcGkndK28Ert51GwX8jcz2kQv-h_ppklPflh_kvT8P3AMED_CkPhDndsSVXncmduz6_nF

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 - MASON ROOF
22-2455-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. Wed Jun 15 16:53:02 2022 Page 6
ID:tuKcGkndK28Ert51GwX8jcz2kQv-h_ppkIPflh_kvT8P3AMED_CkPhDndsSVXncmduz6_nF

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.Death + 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.Death + 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.Death + 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 - MASON ROOF
22-2455-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. Wed Jun 15 16:53:02 2022 Page 7
ID:tuKcGkndK28Ert51GwX8jcz2kQv-h_ppkIPflh_kvT8P3AMED_CkPhDndsSVXncmduz6_nF

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=-1, 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)

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Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-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. Wed Jun 15 16:53:02 2022 Page 8
ID:tuKcGkndK28Ert51GwX8jcz2kQv-h_ppkIPflh_kvT8P3AMED_CkPhDndsSVXncmduz6_nF

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 - MASON ROOF
22-2455-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. Wed Jun 15 16:53:02 2022 Page 9
 ID:tuKcGkndK28Ert51GwX8jcz2kQv-h_ppkIPflh_kvT8P3AMED_CkPhDndsSVXncmduz6_nF

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

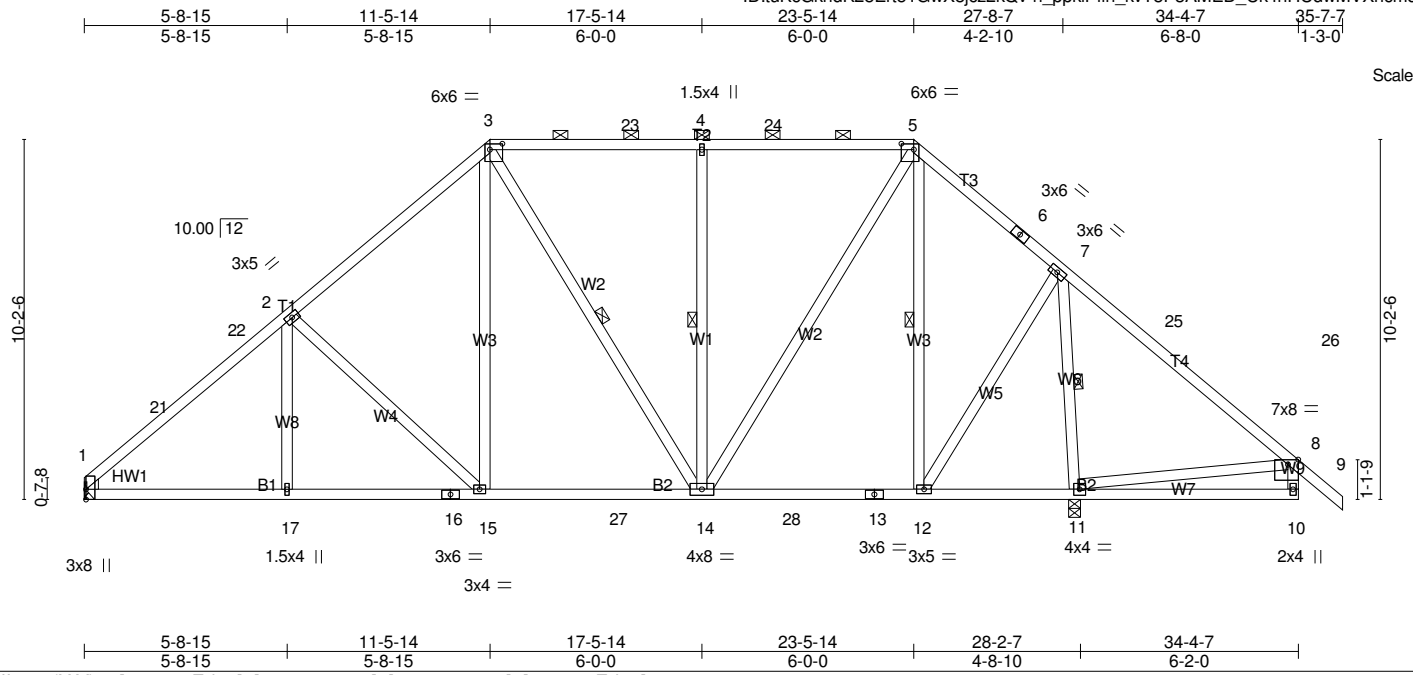
Concentrated Loads (lb)

Vert: 28=-1500(F)

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-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. Wed Jun 15 16:53:02 2022 Page 1
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Scale = 1:65.2

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]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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 14-15 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.74	Vert(CT) -0.13 14-15 >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, 7-11

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=-597/175, 6-7=-680/145, 7-25=-220/877, 25-26=-248/618, 8-26=-252/378
 BOT CHORD 1-17=-75/1298, 16-17=-75/1298, 15-16=-75/1298, 15-27=-32/948, 14-27=-32/948, 14-28=-136/570, 13-28=-136/570, 12-13=-136/570, 11-12=-413/272, 10-11=-156/365
 WEBS 2-15=-674/225, 3-15=-76/626, 3-14=-391/185, 4-14=-869/192, 5-14=-181/1015, 5-12=-854/186, 7-12=-115/1123, 7-11=-2162/465, 8-11=-849/470

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; 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) 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 BCCL = 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)
22-2455-A	T27	Piggyback Base	1	1	CAIN - MASON ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

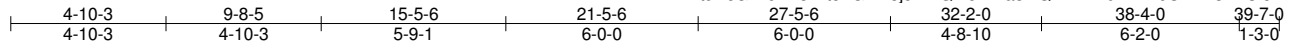
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LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-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. Wed Jun 15 16:53:04 2022 Page 1
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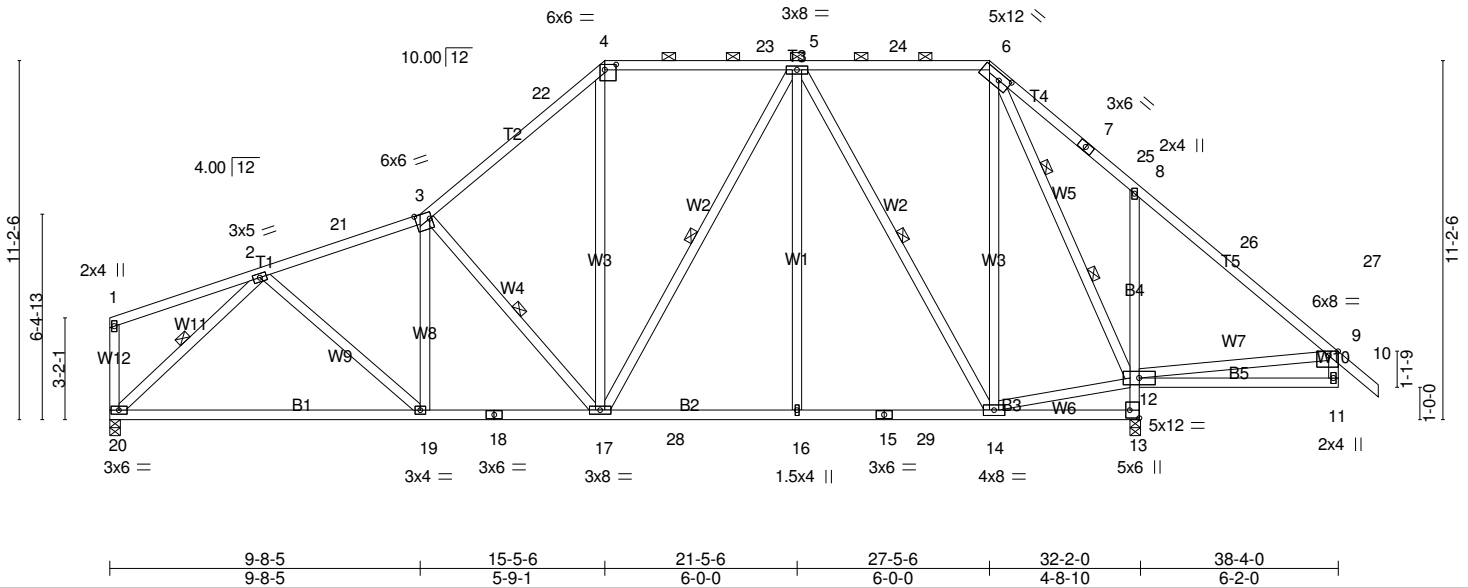


Plate Offsets (X,Y)-- [3:0-5-4,0-2-8], [4:0-4-4,0-2-0], [6:0-4-4,0-2-8], [9:0-3-8,Edge], [13:Edge,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.91	Vert(LL) -0.25	19-20	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.87	Vert(CT) -0.52	19-20	>742	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.92	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: 293 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1 *Except*
 T1,T4: 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 (4-11-13 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14 3-7-6 oc bracing: 12-13.
 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) 20=1300/0-4-0 (min. 0-1-13), 13=2072/0-4-0 (min. 0-2-15)
 Max Horz 20=287(LC 15)
 Max Uplift 20=-137(LC 16), 13=-143(LC 17)
 Max Grav 20=1542(LC 58), 13=2495(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-21=-1871/300, 3-21=-1804/310, 3-22=-1597/313, 4-22=-1380/335, 4-23=-1109/327, 5-23=-1109/327, 5-24=-504/199, 6-24=-504/199, 6-7=0/752, 7-25=-26/432, 8-25=-34/422, 8-26=-214/839, 26-27=-237/588, 9-27=-241/373
 BOT CHORD 19-20=-269/1361, 18-19=-212/1709, 17-18=-212/1709, 17-28=-147/1086, 16-28=-147/1086, 15-16=-147/1086, 15-29=-147/1086, 14-29=-147/1086, 11-12=-121/288, 12-13=-2456/649, 8-12=-727/314
 WEBS 2-19=0/528, 3-17=-877/247, 4-17=-66/517, 5-17=-121/469, 5-16=0/372, 5-14=-1162/205, 6-14=-144/1005, 2-20=-1831/328, 9-12=-748/419, 12-14=-93/645, 6-12=-1832/287

- 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) 20=137, 13=143.

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-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. Wed Jun 15 16:53:04 2022 Page 2
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NOTES-

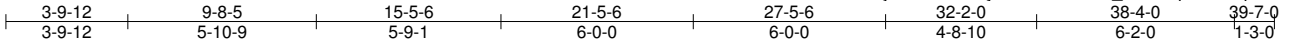
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-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. Wed Jun 15 16:53:05 2022 Page 1
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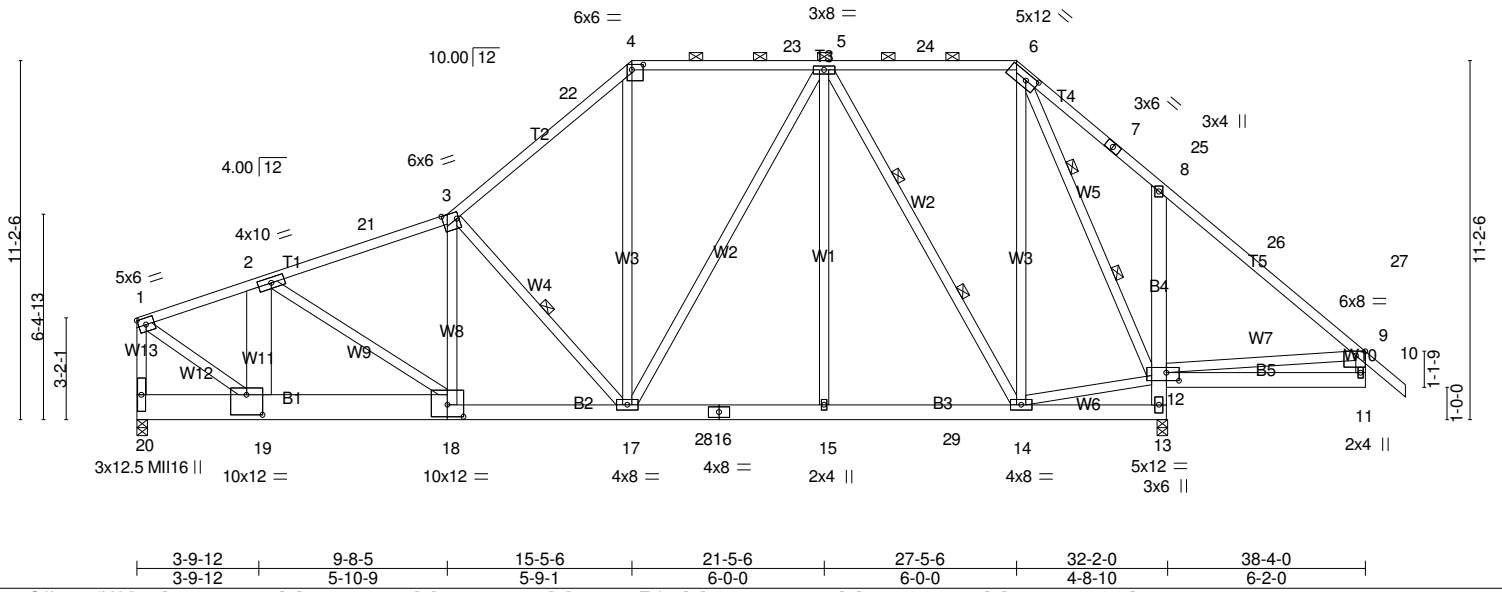


Plate Offsets (X,Y)-- [3:0-5-4,0-2-8], [4:0-4-4,0-2-0], [6:0-4-4,0-2-8], [9:0-3-8,Edge], [12:0-4-12,0-3-0], [18:0-6-0,0-4-8], [19:0-6-0,0-7-8]

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 0.52	Vert(LL) -0.07 17-18 >999 360	MI16	174/126
TCDL 10.0	Lumber DOL 1.15	WB 0.85	Vert(CT) -0.16 17-18 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.03 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 354 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* T2: 2x4 SP DSS, T4: 2x4 SP No.2 BOT CHORD 2x6 SP No.2 *Except* B1: 2x10 SP No.2 WEBS 2x4 SP No.3 *Except* W11: 2x10 SP No.2, W12: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-14 max.): 4-6. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14 4-4-8 oc bracing: 12-13. WEBS 1 Row at midpt 3-17 2 Rows at 1/3 pts 5-14, 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=2621/0-4-0 (min. 0-3-6), 13=2250/0-4-0 (min. 0-3-2)
 Max Horz 20=283(LC 15)
 Max Grav 20=2865(LC 58), 13=2675(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2638/0, 2-21=-2549/0, 3-21=-2459/0, 3-22=-1956/0, 4-22=-1739/0, 4-23=-1379/59, 5-23=-1379/59, 5-24=-562/123, 6-24=-562/123, 6-7=-5748, 7-25=-28/428, 8-25=-35/423, 8-26=-219/845, 26-27=-242/590, 9-27=-246/373, 1-20=-2711/0
BOT CHORD 19-20=-253/188, 18-19=0/2473, 17-18=0/2345, 17-28=0/1251, 16-28=0/1251, 15-16=0/1251, 15-29=0/1251, 14-29=0/1251, 11-12=-115/294, 12-13=-2625/480, 8-12=-729/308
WEBS 2-19=-307/765, 2-18=-665/0, 3-18=0/465, 3-17=-1402/0, 4-17=0/747, 5-17=0/681, 5-15=0/361, 5-14=-1370/11, 6-14=0/1137, 1-19=0/3026, 9-12=-754/410, 12-14=-8/772, 6-12=-1962/122

- 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.
 - 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	CAIN - MASON ROOF
22-2455-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. Wed Jun 15 16:53:05 2022 Page 2
ID:tuKcGkndK28Ert51GwX8jcz2kQv-6YUyMnRY2cNlmmwt_klwrcqDvuHVqFLxElrQDDz6_nC

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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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	CAIN - MASON ROOF
22-2455-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. Wed Jun 15 16:53:05 2022 Page 3
ID:tuKcGkndK28Ert51GwX8jcz2kQv-6YUyMnRY2cNlmtw_klwrcqDvuHVqFLxElrQDDz6_nC

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=-1, 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, 20-28=-20, 28-29=-60, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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 - MASON ROOF
22-2455-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. Wed Jun 15 16:53:05 2022 Page 4
ID:tuKcGkndK28Ert51GwX8jcz2kQv-6YUyMnRY2cNlmmw_klwxcrcQDvuHVqFLxElrQDDz6_nC

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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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
Concentrated Loads (lb)
Vert: 19=-1500(F)

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-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. Wed Jun 15 16:53:05 2022 Page 5
ID:tuKcGkndK28Ert51GwX8jcz2kQv-6YUyMnRY2cNlmtw_klwrcqDvuHVqFLxElrQDDz6_nC

LOAD CASE(S) Standard

- 41) 10th Unbal.Dead + 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.Dead + 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.Dead + 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.Dead + 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.Dead + 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.Dead + 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.Dead + 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.Dead + 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, 20-28=-20, 28-29=-50, 13-29=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-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: 1-3=-30, 3-4=-98, 4-6=-30, 6-27=-98, 9-27=-55, 9-10=-55, 20-28=-20, 28-29=-50, 13-29=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-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: 1-3=-10, 3-4=-41, 4-6=-77, 6-9=-22, 9-10=-18, 20-28=-20, 28-29=-50, 13-29=-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.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, 20-28=-20, 28-29=-50, 13-29=-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.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, 20-28=-20, 28-29=-50, 13-29=-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.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, 20-28=-20, 28-29=-50, 13-29=-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)
- 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, 20-28=-20, 28-29=-50, 13-29=-20, 11-12=-20
Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-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. Wed Jun 15 16:53:05 2022 Page 6
ID:tuKcGkndK28Ert51GwX8jcz2kQv-6YUyMnRY2cNlmt_klwrcqDvuHVqFLxElrQDDz6_nC

LOAD CASE(S) Standard

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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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

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

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-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. Wed Jun 15 16:53:05 2022 Page 7
ID:tuKcGkndK28Ert51GwX8jcz2kQv-6YUyMnRY2cNlmwt_klwrcqDvuHVqFLxElrQDDz6_nC

LOAD CASE(S) Standard

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=-1, 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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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=-47, 3-4=-47, 4-6=-47, 6-9=-34, 9-10=-30, 20-28=-20, 28-29=-50, 13-29=-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

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-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. Wed Jun 15 16:53:05 2022 Page 8
ID:tuKcGkndK28Ert51GwX8jcz2kQv-6YUyMnRY2cNlmwt_klwrcqDvuHVqFLxElrQDDz6_nC

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-44, 3-4=-75, 4-6=-44, 6-9=-57, 9-10=-53, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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, 20-28=-20, 28-29=-50, 13-29=-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

Uniform Loads (plf)

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

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

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T28GR	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

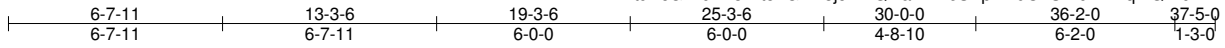
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 19=-1500(F)

Job 22-2455-A	Truss T29	Truss Type GABLE II	Qty 1	Ply 1	CAIN - MASON 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. Wed Jun 15 16:53:06 2022 Page 1
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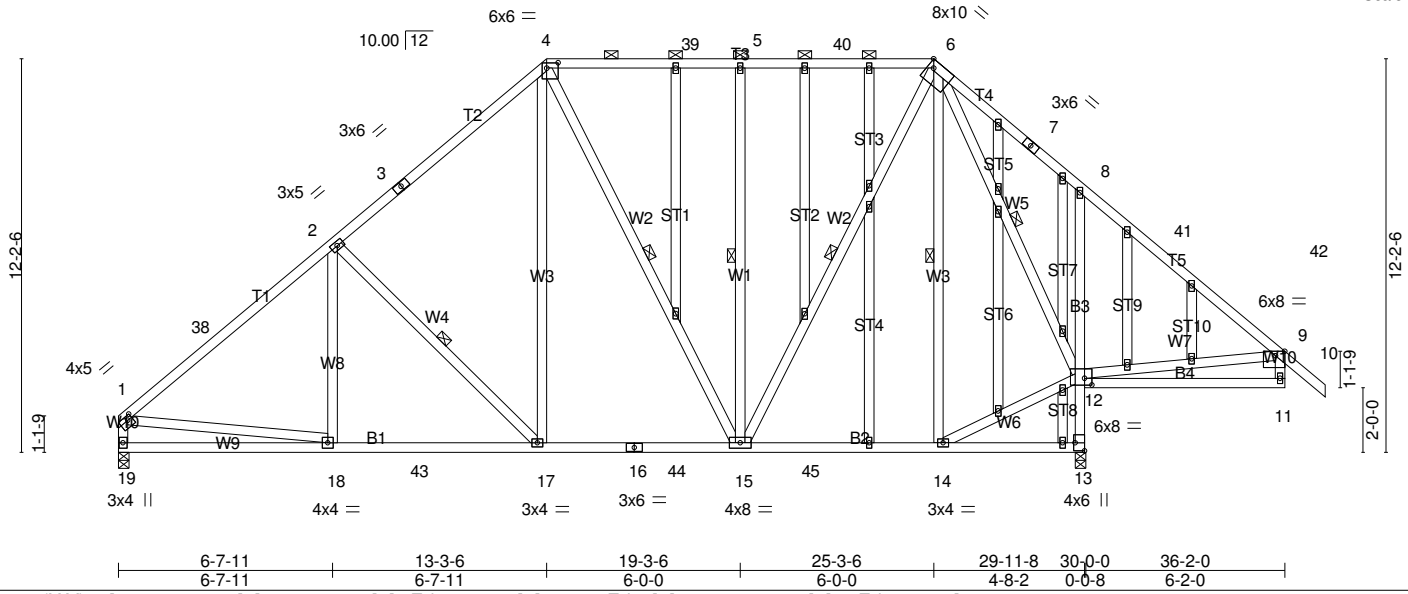


Plate Offsets (X,Y)-- [1:0-1-12,0-1-8], [4:0-4-4,0-2-0], [6:Edge,0-2-11], [9:0-3-8,Edge], [12:0-2-12,0-2-8], [13:Edge,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.88	Vert(LL) -0.08	15-17	>999	360	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	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.92	Horz(CT) 0.03	13	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 362 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1 *Except*
 T4: 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 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-10 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14
 3-7-11 oc bracing: 12-13.
 WEBS 1 Row at midpt 2-17, 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=1201/0-4-0 (min. 0-1-12), 13=1984/0-4-0 (min. 0-2-15)
 Max Horz 19=-302(LC 14)
 Max Uplift 19=-147(LC 16), 13=-214(LC 17)
 Max Grav 19=1481(LC 39), 13=2493(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-38=-1787/197, 2-38=-1430/226, 2-3=-1334/263, 3-4=-1151/310, 4-39=-906/283, 5-39=-906/283, 5-40=-906/283, 6-40=-906/283, 6-7=-1/756, 7-8=-31/426, 8-41=-216/841, 41-42=-242/589, 9-42=-246/374, 1-19=-1419/195
 BOT CHORD 18-19=-290/408, 18-43=-234/1364, 17-43=-234/1364, 16-17=-151/929, 16-44=-151/929, 15-44=-151/929, 15-45=-67/494, 14-45=-67/494, 11-12=-124/290, 12-13=-2458/634, 8-12=-725/310
 WEBS 2-17=-702/249, 4-17=-100/714, 4-15=-505/114, 5-15=-868/192, 6-15=-178/1044, 12-14=-81/568, 6-12=-1674/316, 1-18=-14/1078, 9-12=-750/425

- 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
 - 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 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, with BCDL = 10.0psf.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T29	GABLE I I	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

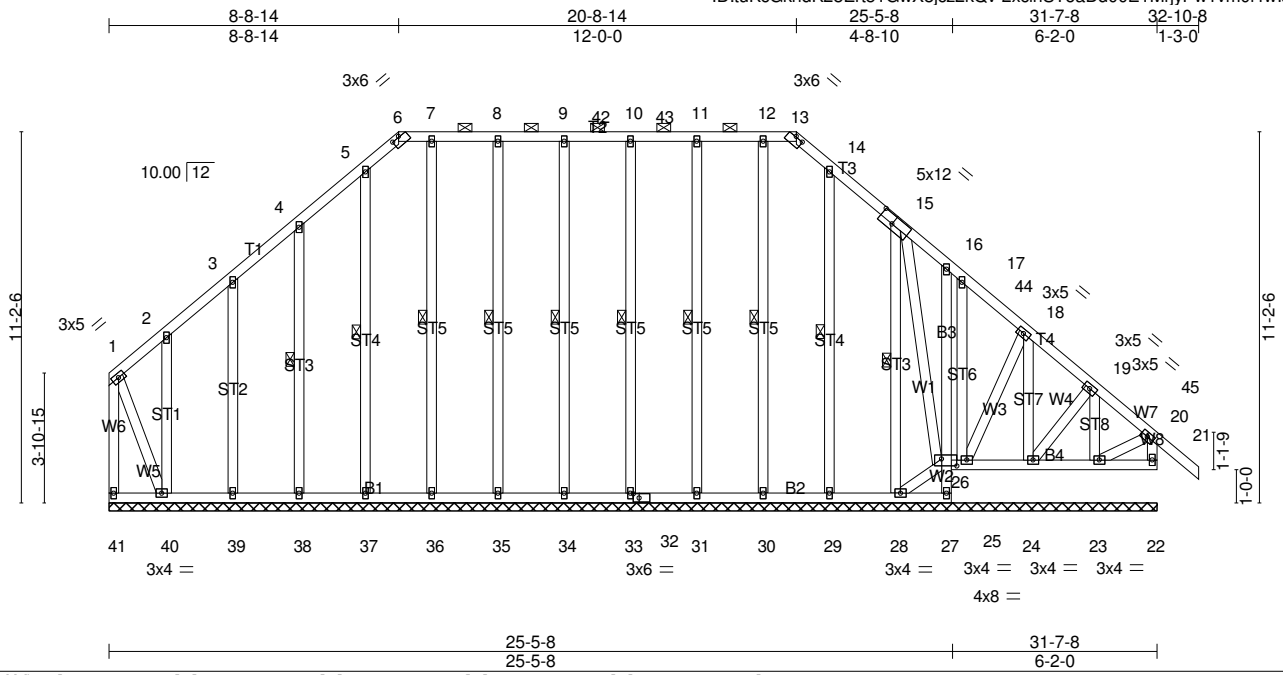
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=147, 13=214.
- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) 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 - MASON ROOF
22-2455-A	T30	GABLE COMMON	1	1	

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Wed Jun 15 16:53:07 2022 Page 1
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Plate Offsets (X,Y)-- [6:0-3-0,0-0-4], [13:0-3-0,0-0-4], [15:0-5-4,0-3-0], [26:0-5-8,0-2-8], [32:0-2-2,0-1-8]

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	21	n/r	180	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT) -0.01	21	n/r	120		
TCDL 10.0	Lumber DOL 1.15	WB 0.22	Horz(CT) 0.01	22	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 336 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.): 6-13.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 25-26,23-24,22-23,26-27.
 WEBS 1 Row at midpt 9-34, 8-35, 7-36, 5-37, 4-38, 10-33, 11-31, 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 31-7-8.
 (lb) - Max Horz 41=-325(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 22, 34, 35, 36, 37, 38, 39, 33, 31, 30, 29, 24, 27 except 41=-300(LC 14), 40=-314(LC 13), 28=-202(LC 17), 25=-111(LC 17)
 Max Grav All reactions 250 lb or less at joint(s) 24, 23, 27 except 41=354(LC 13), 22=270(LC 39), 34=287(LC 38), 35=293(LC 38), 36=258(LC 38), 37=261(LC 39), 38=293(LC 39), 39=290(LC 39), 40=456(LC 47), 33=287(LC 38), 31=293(LC 38), 30=258(LC 38), 29=265(LC 39), 28=254(LC 49), 25=304(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-41=-334/297, 20-22=-256/42
 BOT CHORD 40-41=-253/283
 WEBS 8-35=-253/74, 4-38=-253/123, 11-31=-253/74, 1-40=-301/311

- 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 - MASON ROOF
22-2455-A	T30	GABLE COMMON	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

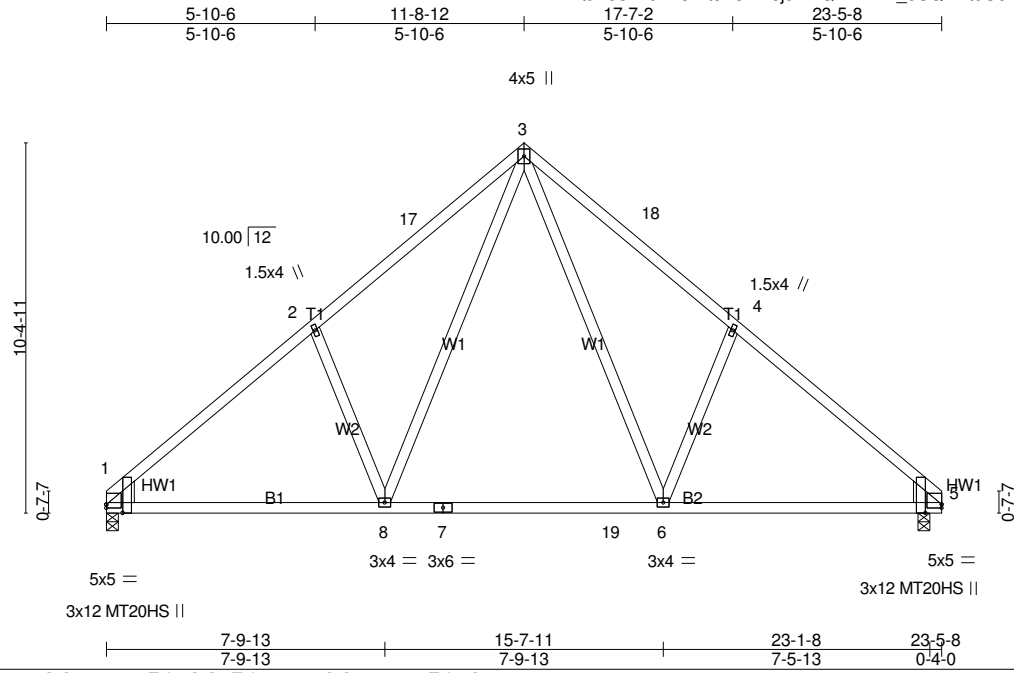
- 13) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 34, 35, 36, 37, 38, 39, 33, 31, 30, 29, 24, 27 except (jt=lb) 41=300, 40=314, 28=202, 25=111.
- 15) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 22, 25, 24, 23.
- 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	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	T31	Common	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. Wed Jun 15 16:53:08 2022 Page 1
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Scale = 1:64.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.72	Vert(LL) -0.21	6-8	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.67	Vert(CT) -0.29	6-8	>963	240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.43	Horz(CT) 0.04	5	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014							Weight: 132 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x8 SP DSS , Right: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-2 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=996/0-4-0 (min. 0-1-8), 5=1026/0-4-0 (min. 0-1-8)
 Max Horz 1=-242(LC 12)
 Max Uplift 1=-86(LC 16), 5=-88(LC 17)
 Max Grav 1=1156(LC 2), 5=1190(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1443/227, 2-17=-1311/330, 3-17=-1148/351, 3-18=-1102/345, 4-18=-1262/324,
 4-5=-1407/222
 BOT CHORD 1-8=-160/1123, 7-8=0/723, 7-19=0/723, 6-19=0/723, 5-6=-65/978
 WEBS 3-6=-184/604, 4-6=-380/274, 3-8=-190/688, 2-8=-416/277

NOTES-

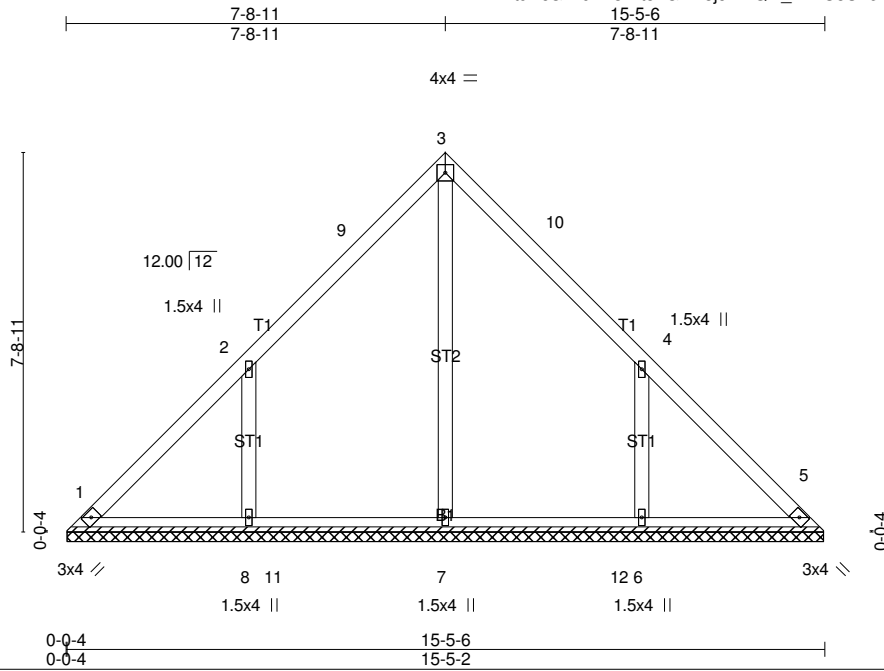
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C 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.
- 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) 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 - MASON ROOF
22-2455-A	V01	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:46.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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 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 15-4-14.
 (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

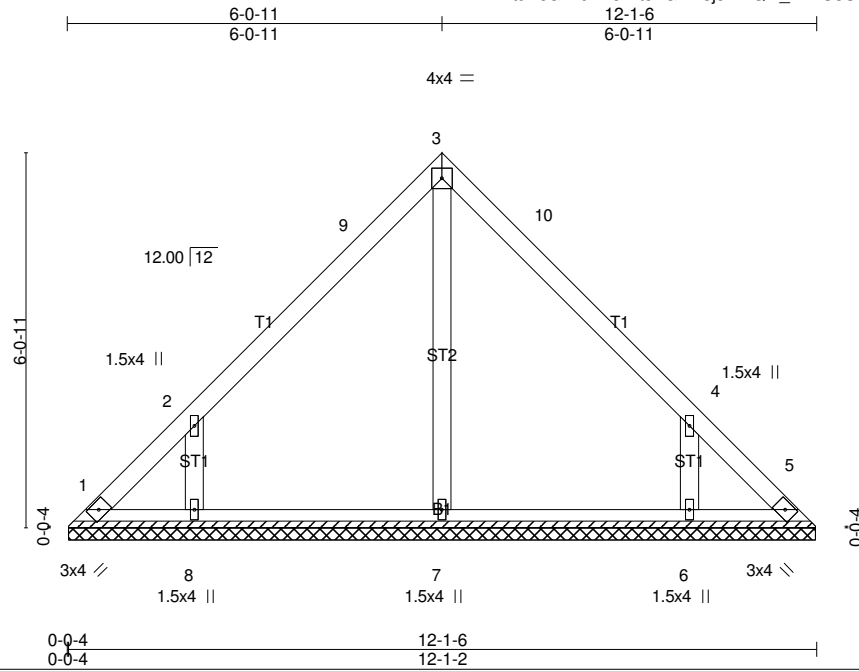
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right 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 - MASON ROOF
22-2455-A	V02	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:37.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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

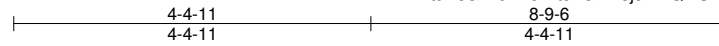
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right 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	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	V03	Valley	1	1	Job Reference (optional)

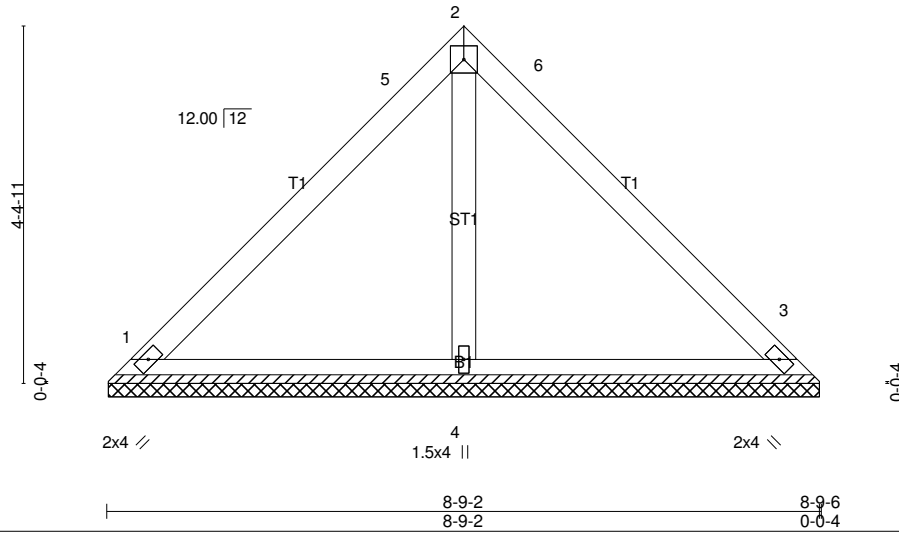
Riverside Roof Truss, LLC, Danville, VA. 24541

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4x4 =

Scale = 1:28.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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 Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 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.

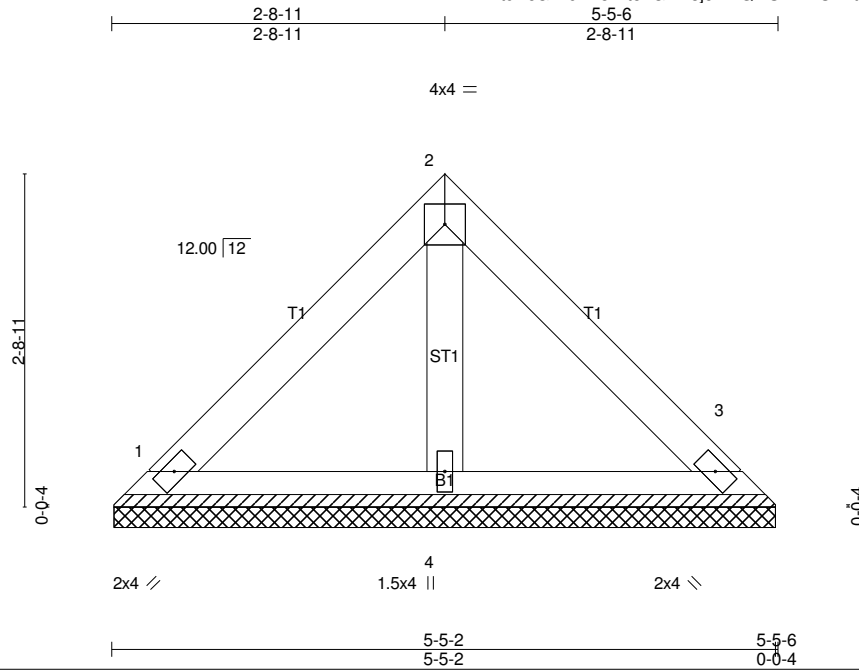
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and 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	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	V04	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. Wed Jun 15 16:53:10 2022 Page 1
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Scale = 1:18.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	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: 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 Structural wood sheathing directly applied or 5-5-6 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=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.

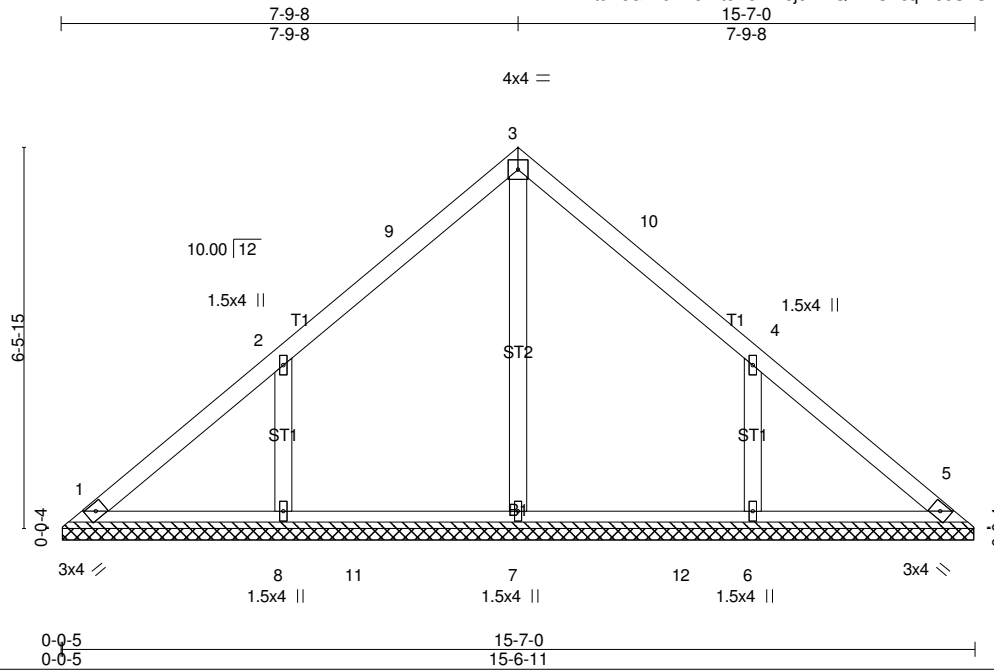
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and 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 - MASON ROOF
22-2455-A	V05	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:39.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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		
BCDL 10.0	Lumber DOL 1.15	WB 0.15	Vert(CT) n/a - n/a 999		
TCDL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCLL 0.0	Code IRC2015/TPI2014			Weight: 68 lb	FT = 20%
BCDL 10.0					

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

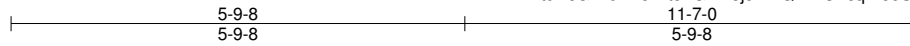
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right 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

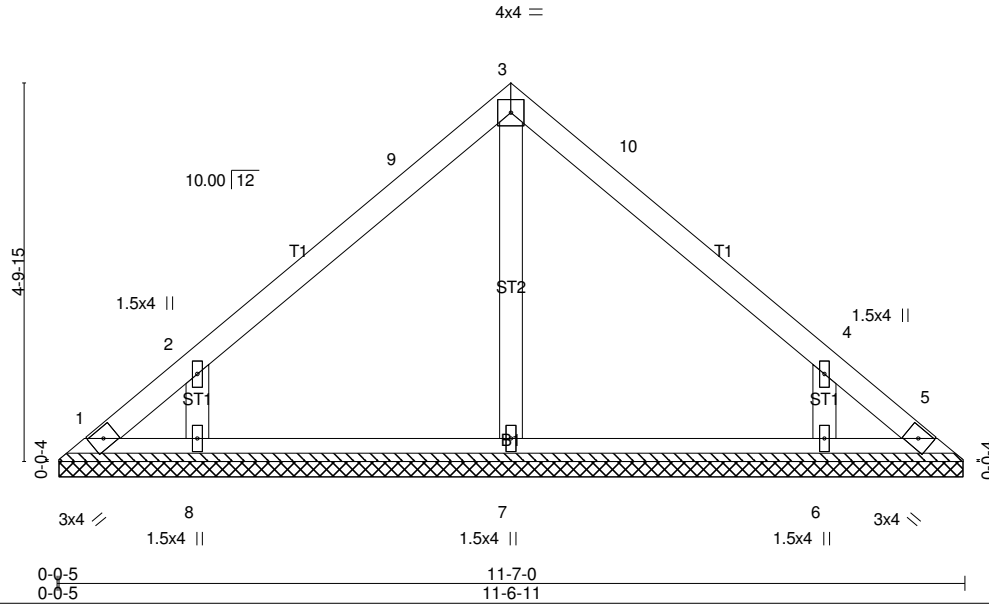
Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	V06	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:29.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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

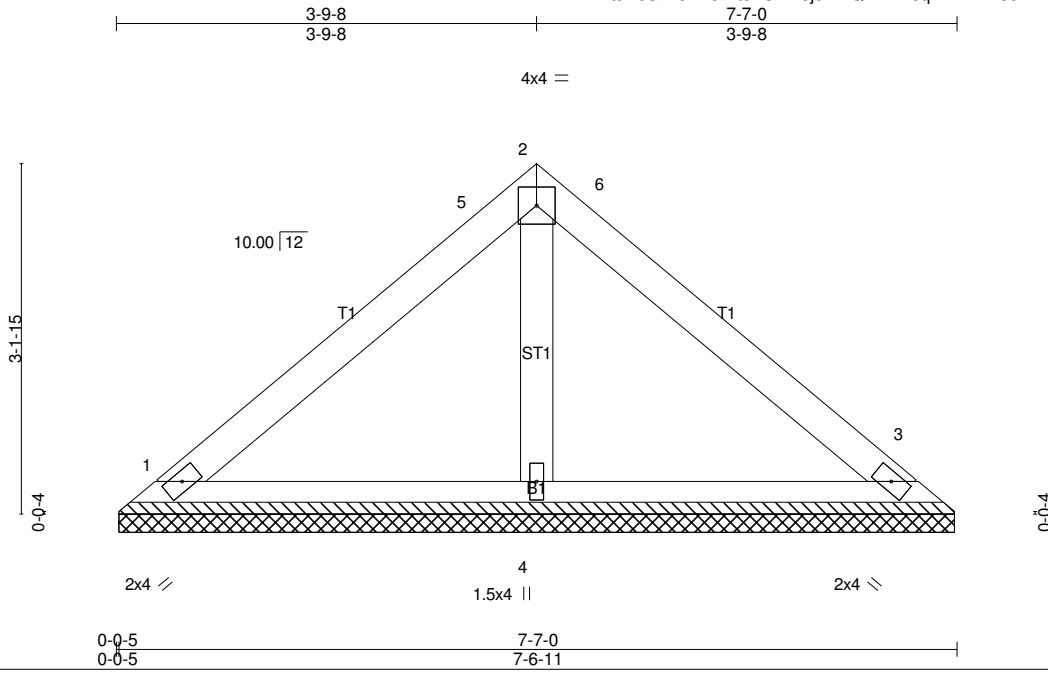
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right 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	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	V07	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:20.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.29	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 0.05	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: 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 Uplift1=-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.

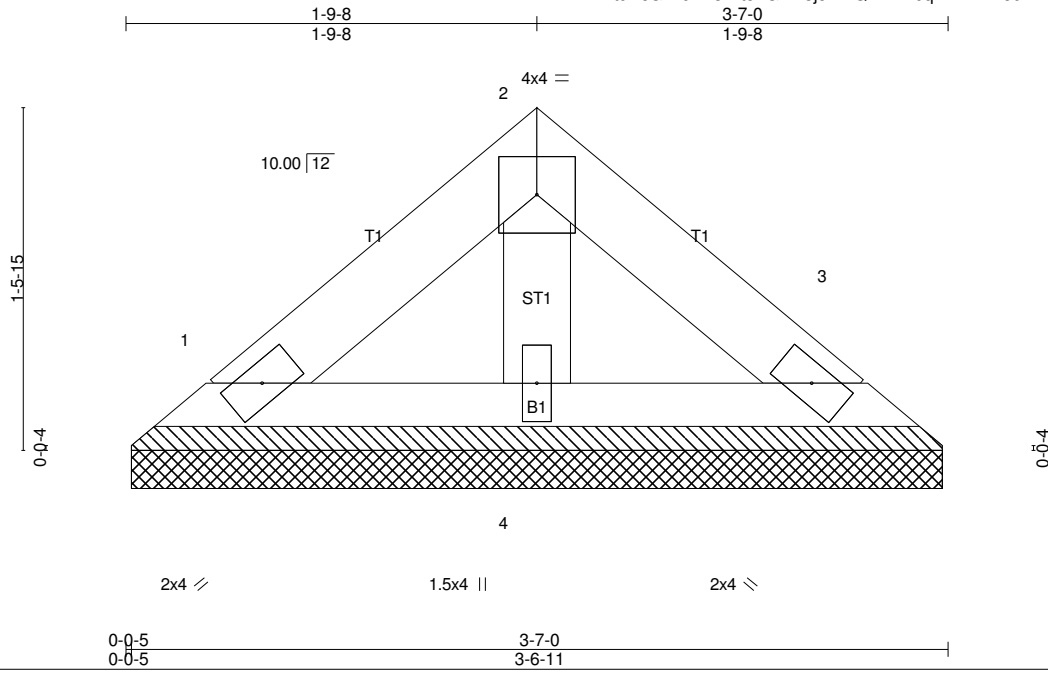
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right 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 22-2455-A	Truss V08	Truss Type Valley	Qty 1	Ply 1	CAIN - MASON ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:10.0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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 Uplift 1=-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.

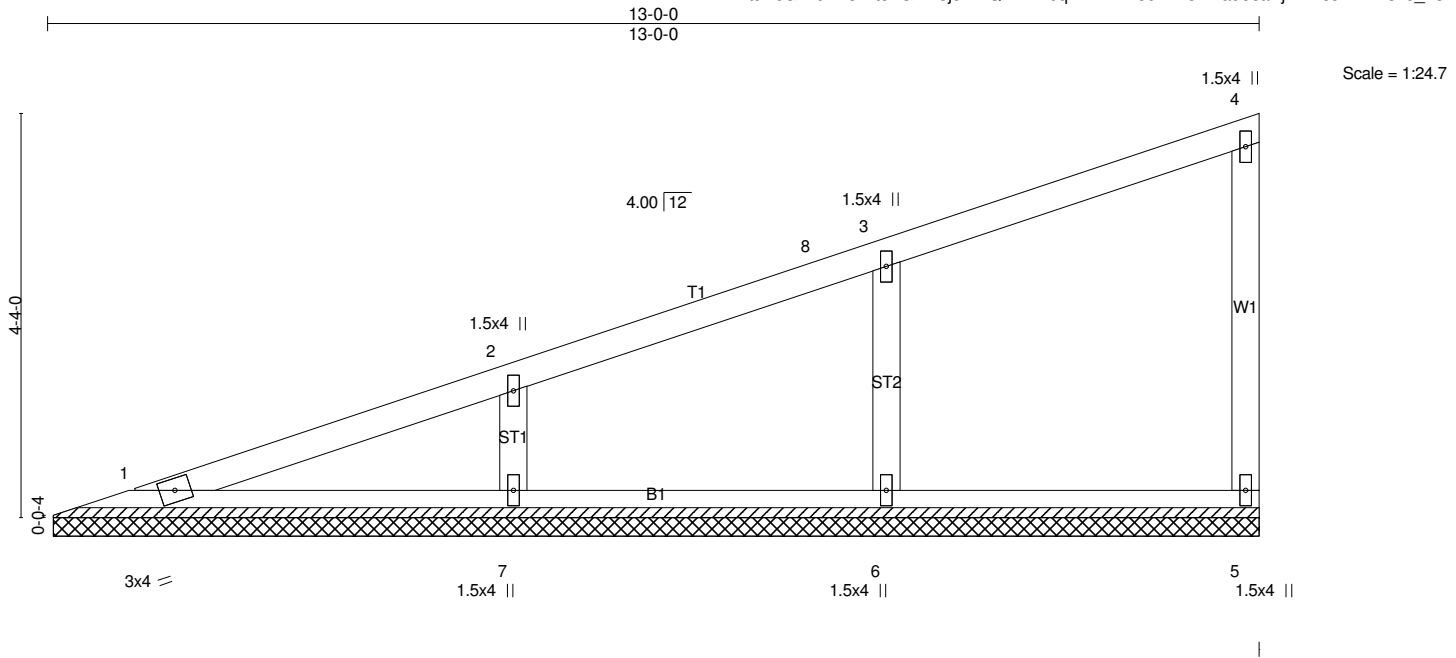
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right 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	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	V09	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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

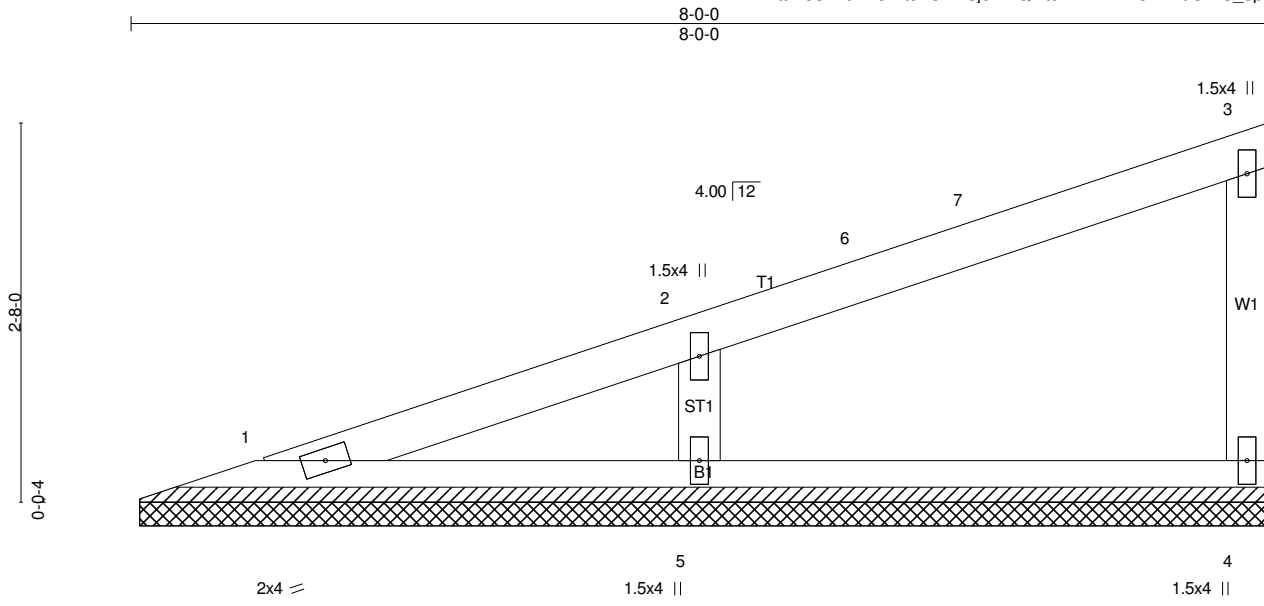
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	V10	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. Wed Jun 15 16:53:13 2022 Page 1
ID:tuKcGkndK28Ert51GwX8jcz2kQv-t5zz1WXZA3NAk9UWC_3pAI9IF77ai3V73?nrVlz6_n4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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

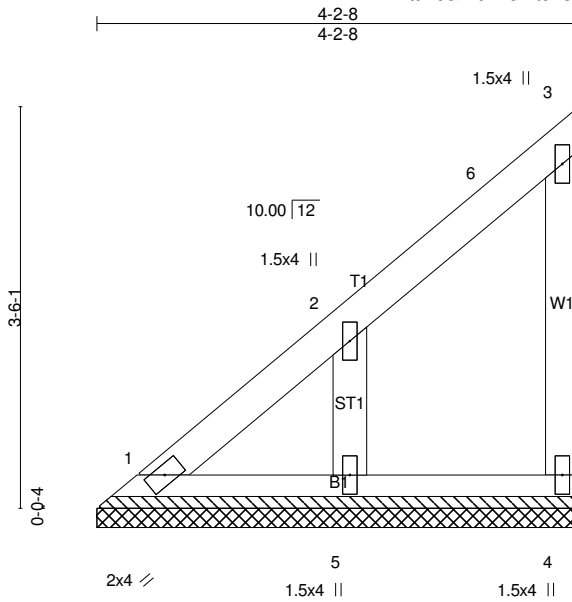
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 - MASON ROOF
22-2455-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. Wed Jun 15 16:53:13 2022 Page 1
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Scale = 1:20.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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.

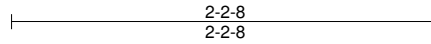
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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

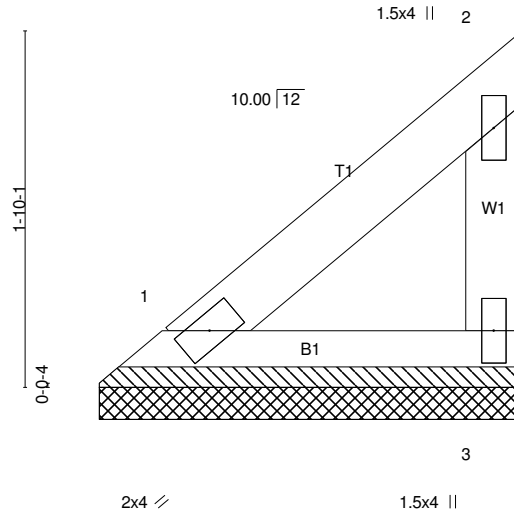
Job	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	V12	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Wed Jun 15 16:53:14 2022 Page 1
ID:tuKcGkndK28Ert51GwX8jcz2kQv-LHXMFryBxNV1MJ3imha2iWi_DXUIRxpGifWO2Bz6_n3



Scale: 1"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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.

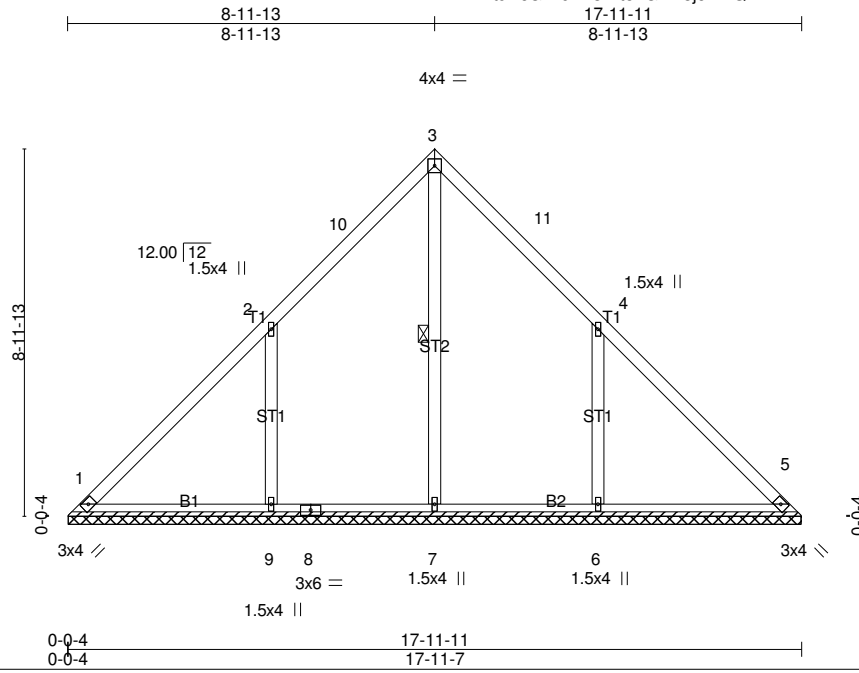
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	V13	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. Wed Jun 15 16:53:14 2022 Page 1
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Scale = 1:56.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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

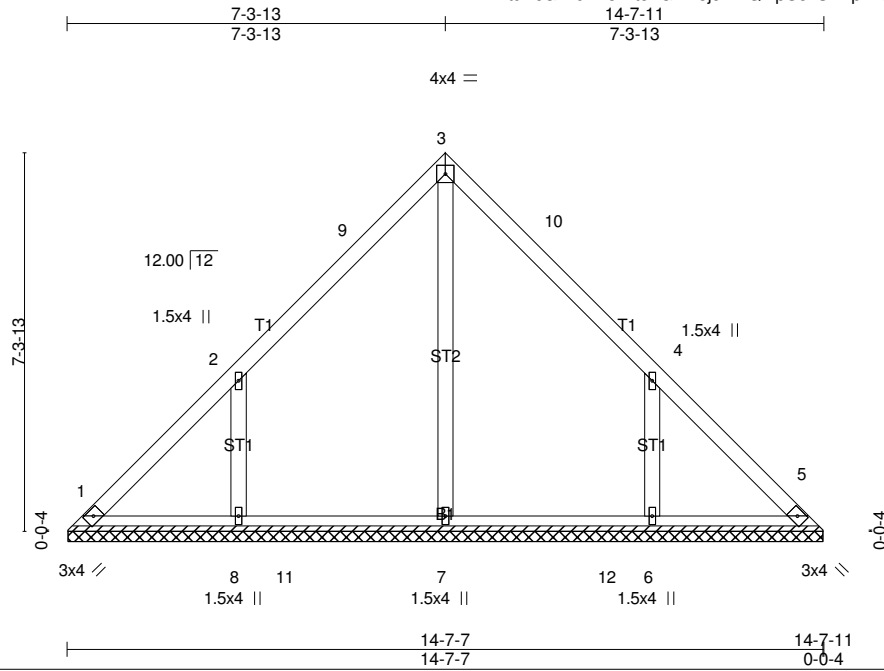
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right 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) 9=283, 6=283.
 - 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 - MASON ROOF
22-2455-A	V14	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. Wed Jun 15 16:53:15 2022 Page 1
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Scale = 1:44.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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 Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. All bearings 14-7-3.
(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

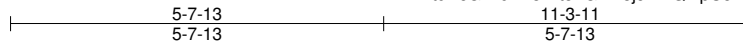
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right 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 - MASON ROOF
22-2455-A	V15	Valley	1	1	Job Reference (optional)

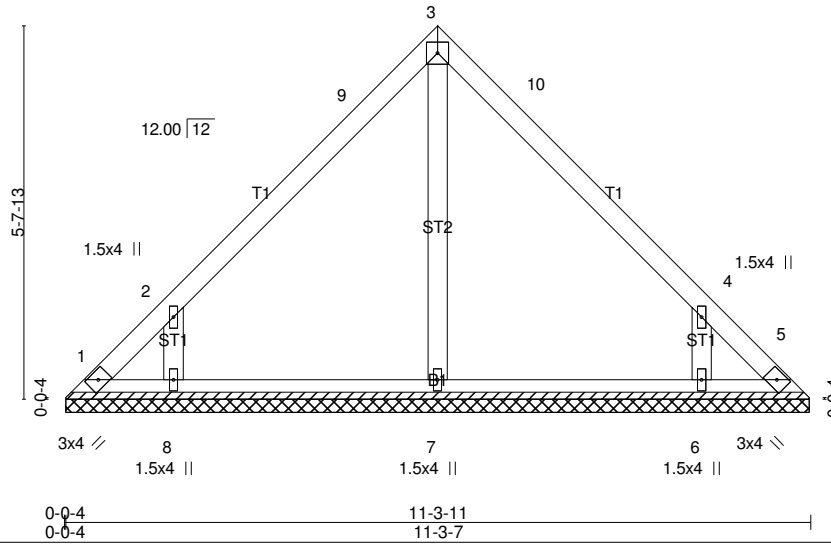
Riverside Roof Truss, LLC, Danville, VA. 24541

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4x4 =

Scale = 1:34.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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

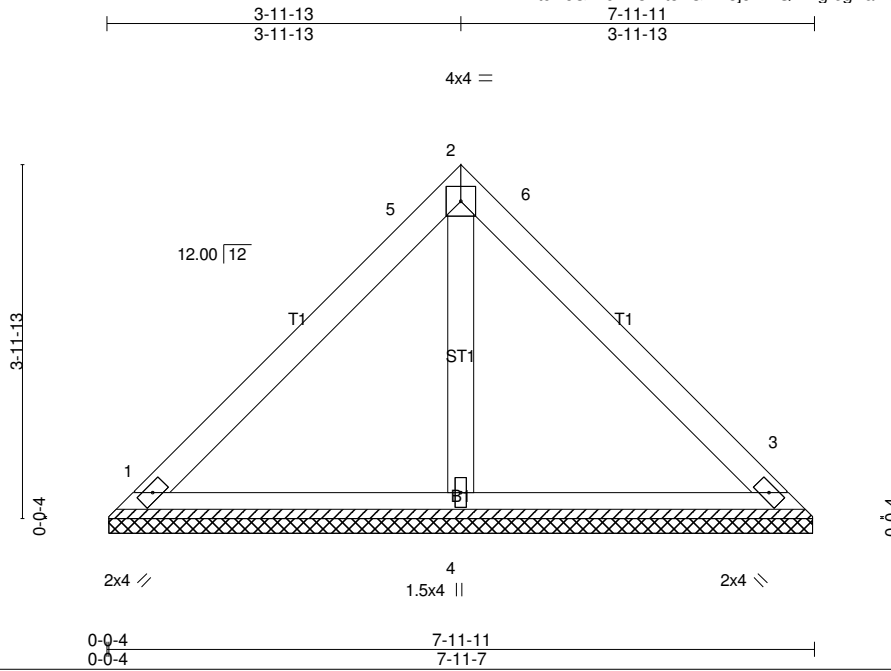
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right 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 (it=lb) 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	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	V16	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. Wed Jun 15 16:53:16 2022 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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 Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 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 Uplift1=-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.

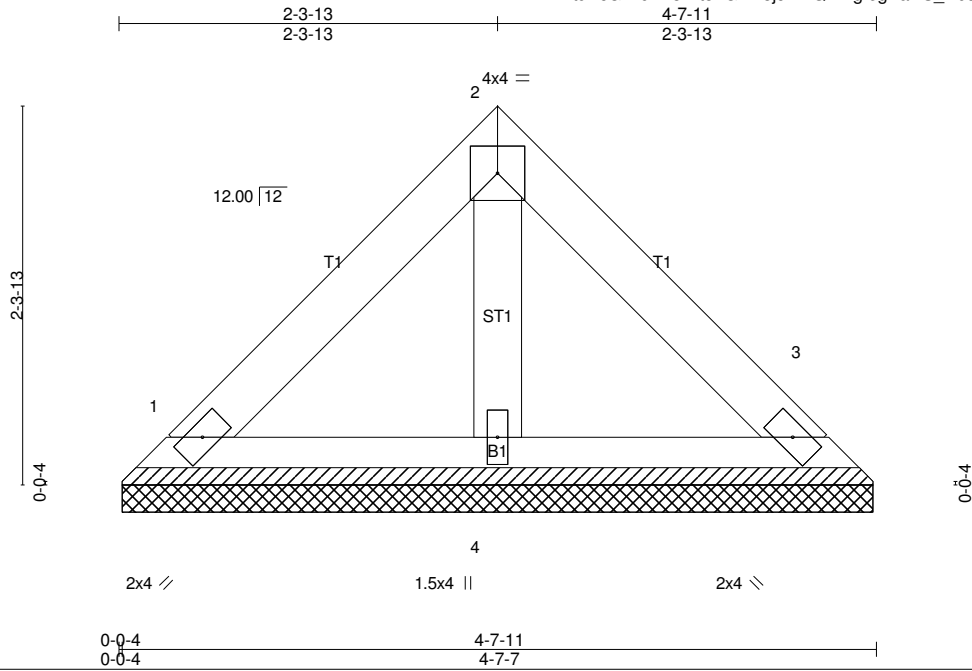
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right 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 22-2455-A	Truss V17	Truss Type Valley	Qty 1	Ply 1	CAIN - MASON 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. Wed Jun 15 16:53:16 2022 Page 1
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Scale = 1:14.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
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.

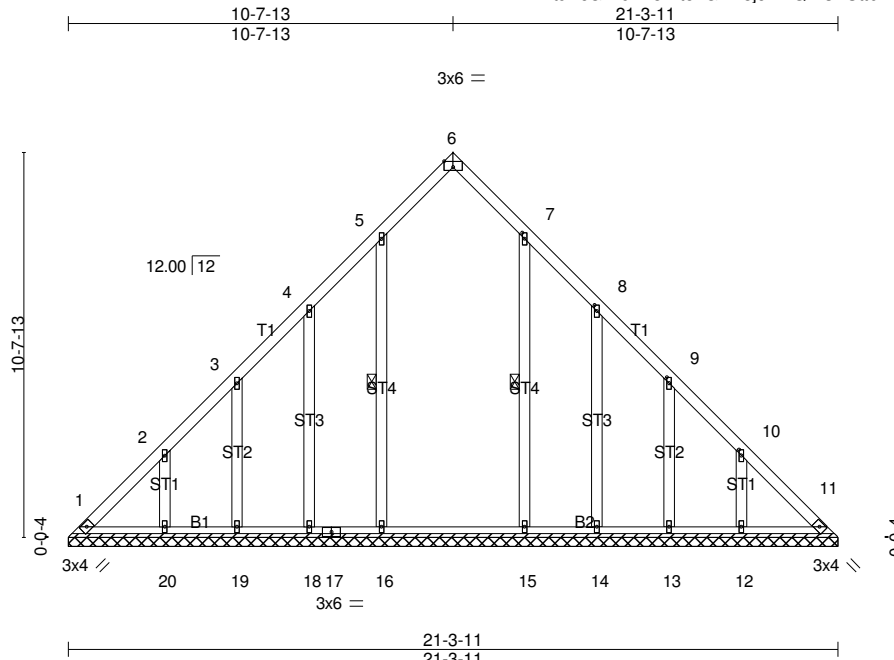
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right 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	Truss	Truss Type	Qty	Ply	CAIN - MASON ROOF
22-2455-A	V18GE	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. Wed Jun 15 16:53:17 2022 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]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.14	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.13	Horz(CT)	0.01	11	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S					Weight: 136 lb	FT = 20%
BCDL 10.0	Code IRC2015/TPI2014							

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 18=-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) 18, 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) 18=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