

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	AT01	Attic	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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-0-10-8	4-7-12	7-6-13	8-4-12	11-11-8	15-6-4	16-4-2	19-3-4	23-11-0	24-9-8
0-10-8	4-7-12	2-11-1	0-9-15	3-6-12	3-6-12	0-9-15	2-11-2	4-7-12	0-10-8

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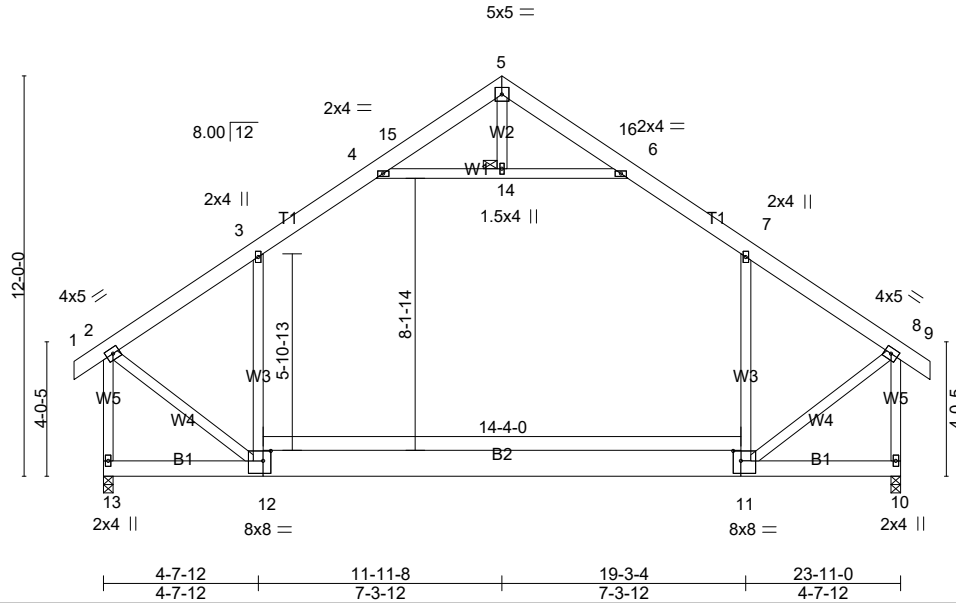


Plate Offsets (X,Y)-- [11:0-2-12,0-3-8], [12:0-2-12,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.80	Vert(LL)	-0.40	11-12	>711	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.81	Vert(CT)	-0.56	11-12	>510		
TCDL 10.0	Lumber DOL 1.15	WB 0.47	Horz(CT)	0.01	10	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Attic	-0.30	11-12	573		
BCDL 10.0	Code IRC2018/TPI2014						Weight: 211 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 B2: 2x10 SP DSS  
 WEBS 2x4 SP No.3 \*Except\*  
 W3,W1: 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-2-2 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 JOINTS 1 Brace at Jt(s): 14

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

**REACTIONS.** (lb/size) 13=1099/0-3-8 (min. 0-1-13), 10=1099/0-3-8 (min. 0-1-13)  
 Max Horz 13=-325(LC 14)  
 Max Grav 13=1537(LC 31), 10=1537(LC 32)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1291/5, 3-4=-1053/97, 4-15=-281/88, 5-15=-250/127, 5-16=-250/127, 6-16=-281/88,  
 6-7=-1052/99, 7-8=-1291/5, 2-13=-1664/0, 8-10=-1664/0  
 BOT CHORD 12-13=-316/305, 11-12=0/1027  
 WEBS 7-11=-235/419, 3-12=-235/419, 4-14=-986/50, 6-14=-986/50, 2-12=0/1278, 8-11=0/1278

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-11-8, Exterior(2R) 11-11-8 to 14-11-8, Interior(1) 14-11-8 to 24-9-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 15.4 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.
  - Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-14, 6-14; Wall dead load (5.0psf) on member(s).7-11, 3-12
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 11-12
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	ATGE01	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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-0-10-8	4-7-12	7-6-13	8-4-12	11-11-8	15-6-4	16-4-2	19-3-4	23-11-0	24-9-8
0-10-8	4-7-12	2-11-1	0-9-15	3-6-12	3-6-12	0-9-15	2-11-2	4-7-12	0-10-8

Scale = 1:69.1

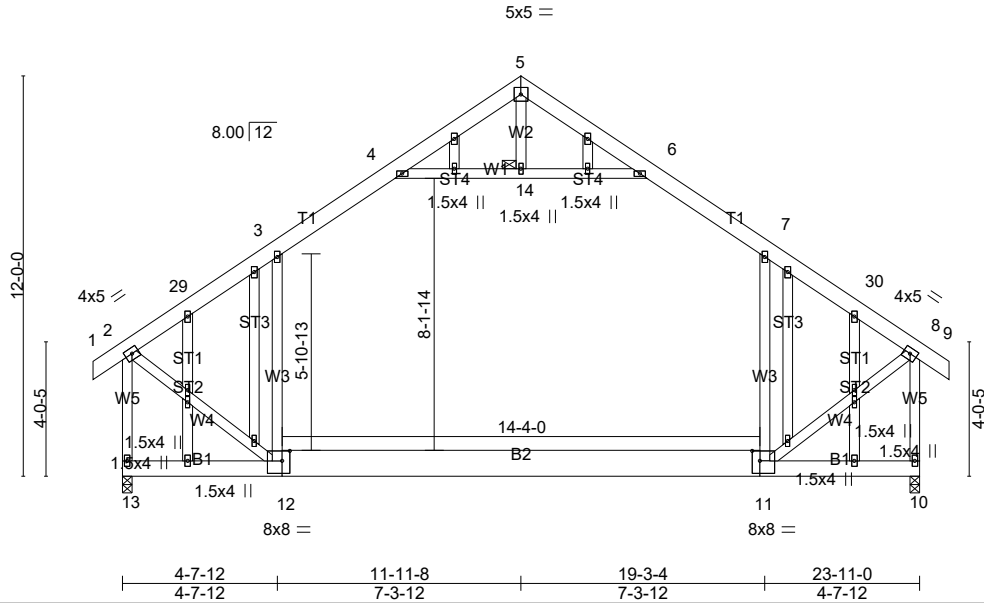


Plate Offsets (X,Y)-- [11:0-2-12,0-3-8], [12:0-2-12,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.80	Vert(LL)	-0.40	11-12	>711	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.81	Vert(CT)	-0.56	11-12	>510		
TCDL 10.0	Lumber DOL 1.15	WB 0.47	Horz(CT)	0.01	10	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Attic	-0.30	11-12	573		
BCDL 10.0	Code IRC2018/TPI2014						Weight: 242 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.2  
BOT CHORD 2x6 SP No.2 \*Except\*  
B2: 2x10 SP DSS  
WEBS 2x4 SP No.3 \*Except\*  
W3,W1: 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-3-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
JOINTS 1 Brace at Jt(s): 14

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

**REACTIONS.** (lb/size) 13=1099/0-3-8 (min. 0-1-13), 10=1099/0-3-8 (min. 0-1-13)  
Max Horz 13=-325(LC 14)  
Max Grav 13=1537(LC 31), 10=1537(LC 32)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-29=-1291/17, 3-29=-1178/34, 3-4=-1053/161, 4-5=-281/127, 5-6=-281/127,  
6-7=-1052/161, 7-30=-1178/34, 8-30=-1291/17, 2-13=-1664/64, 8-10=-1664/64  
BOT CHORD 12-13=-316/305, 11-12=0/1027  
WEBS 7-11=-235/419, 3-12=-235/419, 4-14=-986/129, 6-14=-986/129, 2-12=0/1278, 8-11=0/1278

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 11-11-8, Corner(3R) 11-11-8 to 14-11-8, Exterior(2N) 14-11-8 to 24-9-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 15.4 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.
  - Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-14, 6-14; Wall dead load (5.0psf) on member(s).7-11, 3-12
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 11-12
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	G01	Common Girder	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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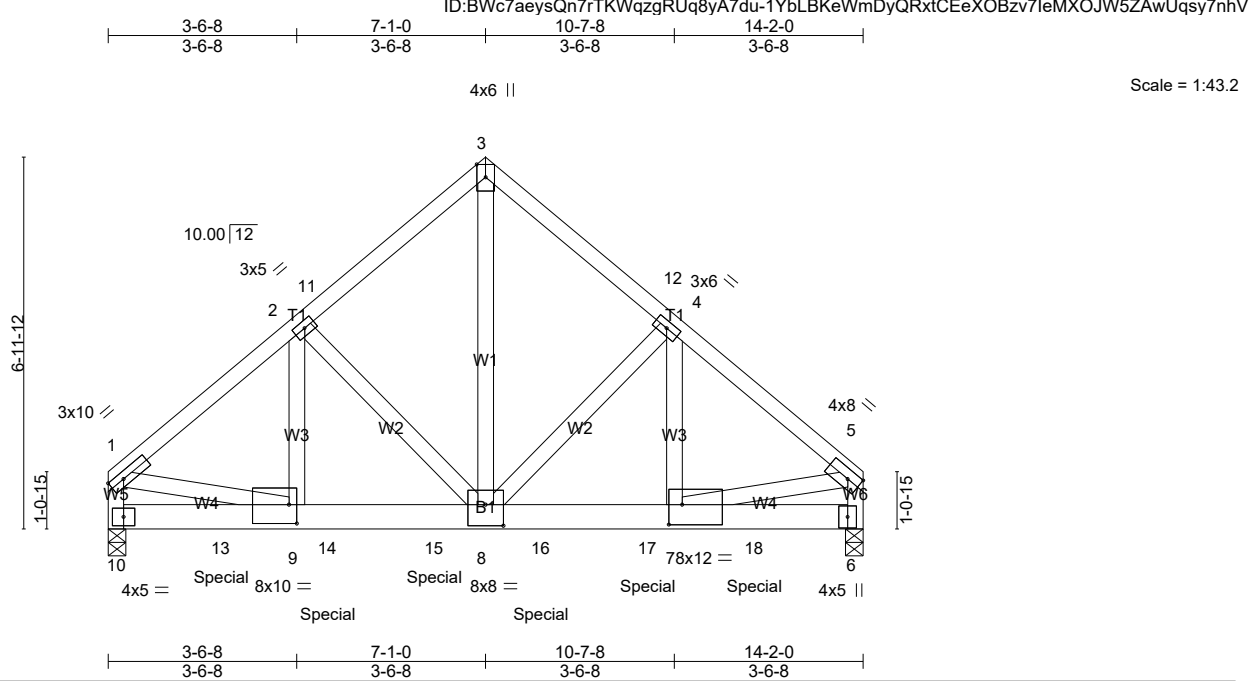


Plate Offsets (X,Y)-- [7:0-3-0,0-4-8], [8:0-4-0,0-4-12], [9:0-1-12,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.95	Vert(LL)	-0.06	7-8	>999	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.38	Vert(CT)	-0.11	7-8	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.89	Horz(CT)	0.01	6	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 210 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP 2400F 2.0E  
 WEBS 2x4 SP No.3 \*Except\*  
 W1,W6: 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-10-14 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 10=5133/0-4-0 (min. 0-1-15), 6=5385/0-4-0 (min. 0-1-8)  
 Max Horz 10=-162(LC 45)  
 Max Uplift 10=-521(LC 16), 6=-532(LC 17)  
 Max Grav 10=5554(LC 5), 6=5823(LC 6)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-6089/639, 2-11=-4719/542, 3-11=-4671/567, 3-12=-4671/567, 4-12=-4718/542,  
 4-5=-6309/647, 1-10=-4892/519, 5-6=-5058/525  
 BOT CHORD 10-13=-199/612, 9-13=-199/612, 9-14=-468/4628, 14-15=-468/4628, 8-15=-468/4628,  
 8-16=-461/4796, 16-17=-461/4796, 7-17=-461/4796, 7-18=-88/625, 6-18=-88/625  
 WEBS 3-8=-620/5749, 4-8=-1724/265, 4-7=-205/2112, 2-8=-1484/256, 2-9=-193/1799,  
 1-9=-379/4173, 5-7=-383/4283

- 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 0-5-0 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-1-0, Exterior(2R) 7-1-0 to 10-1-0, Interior(1) 10-1-0 to 14-0-4 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) 10, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=521, 6=532.
  - This truss is designed in accordance with the 2018 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	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	G01	Common Girder	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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**NOTES-**

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1601 lb down and 166 lb up at 2-1-4, 1601 lb down and 166 lb up at 4-1-4, 1808 lb down and 174 lb up at 6-1-4, 1808 lb down and 174 lb up at 8-1-4, and 1808 lb down and 174 lb up at 10-1-4, and 1808 lb down and 174 lb up at 12-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-51, 3-5=-51, 6-10=-20

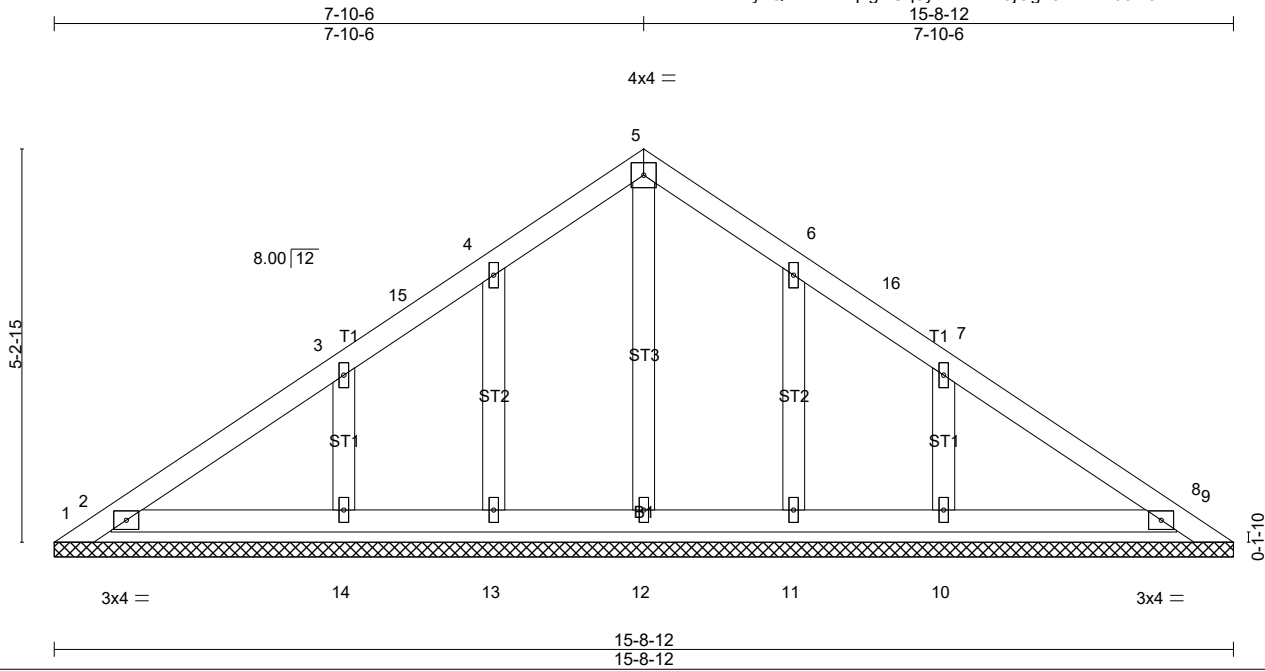
Concentrated Loads (lb)

Vert: 13=-1460(B) 14=-1460(B) 15=-1654(B) 16=-1654(B) 17=-1654(B) 18=-1654(B)

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	PB01	GABLE	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:30.7

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 71 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 15-8-12.  
(lb) - Max Horz 1=119(LC 15)  
Max Uplift All uplift 100 lb or less at joint(s) 9, 2, 8, 13, 14, 11, 10 except 1=137(LC 30)  
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 12, 13, 14, 11, 10 except 2=277(LC 30), 8=255(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-2 to 3-3-2, Interior(1) 3-3-2 to 7-10-6, Exterior(2R) 7-10-6 to 10-10-6, Interior(1) 10-10-6 to 15-5-10 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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.
  - 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) 9, 2, 8, 13, 14, 11, 10 except (jt=lb) 1=137.
  - This truss is designed in accordance with the 2018 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.

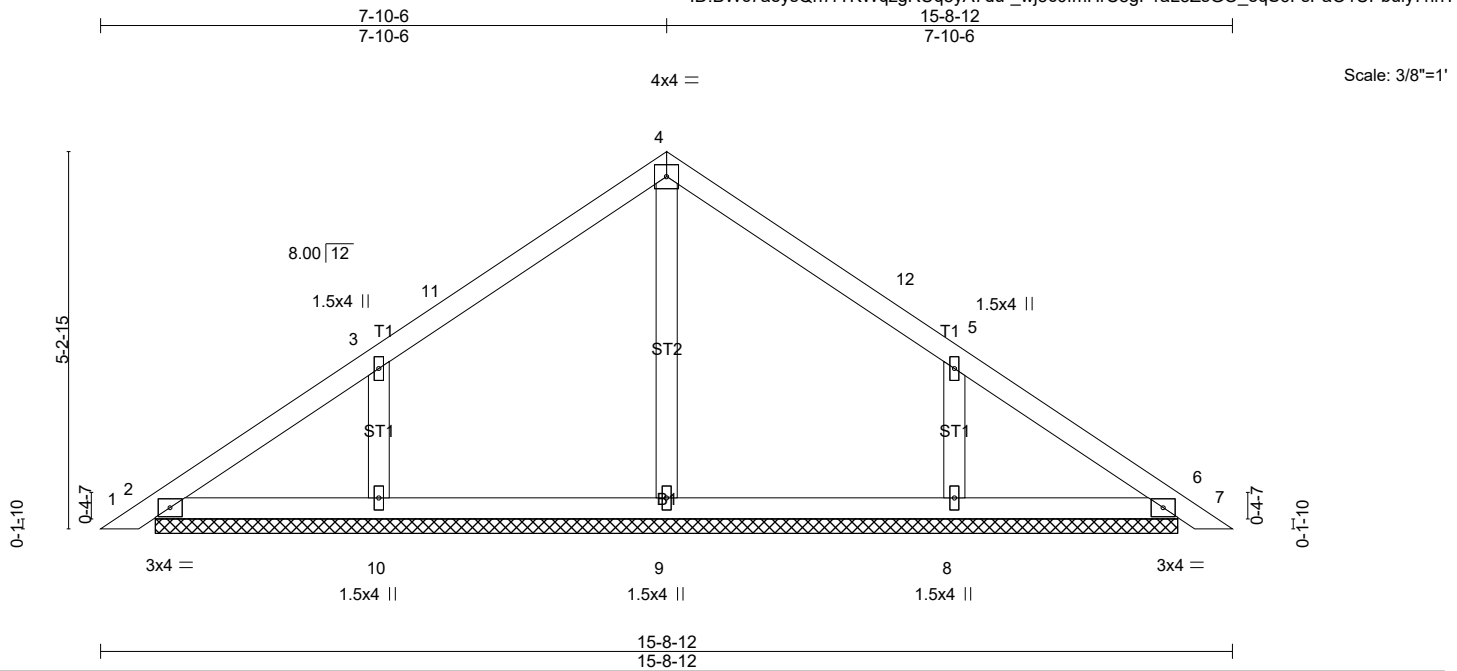
**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	PB02	Piggyback	17	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) 0.00 6 n/r 180		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Vert(CT) 0.00 7 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 62 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 14-2-8.  
 (lb) - Max Horz 2=-119(LC 14)  
 Max Uplift All uplift 100 lb or less at joint(s) 2 except 10=-128(LC 16), 8=-127(LC 17)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=257(LC 2), 10=374(LC 23), 8=374(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 3-10=-296/170, 5-8=-296/170

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-2 to 3-3-2, Interior(1) 3-3-2 to 7-10-6, Exterior(2R) 7-10-6 to 10-10-6, Interior(1) 10-10-6 to 15-5-10 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 15.4 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 except (jt=lb) 10=128, 8=127.
  - This truss is designed in accordance with the 2018 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

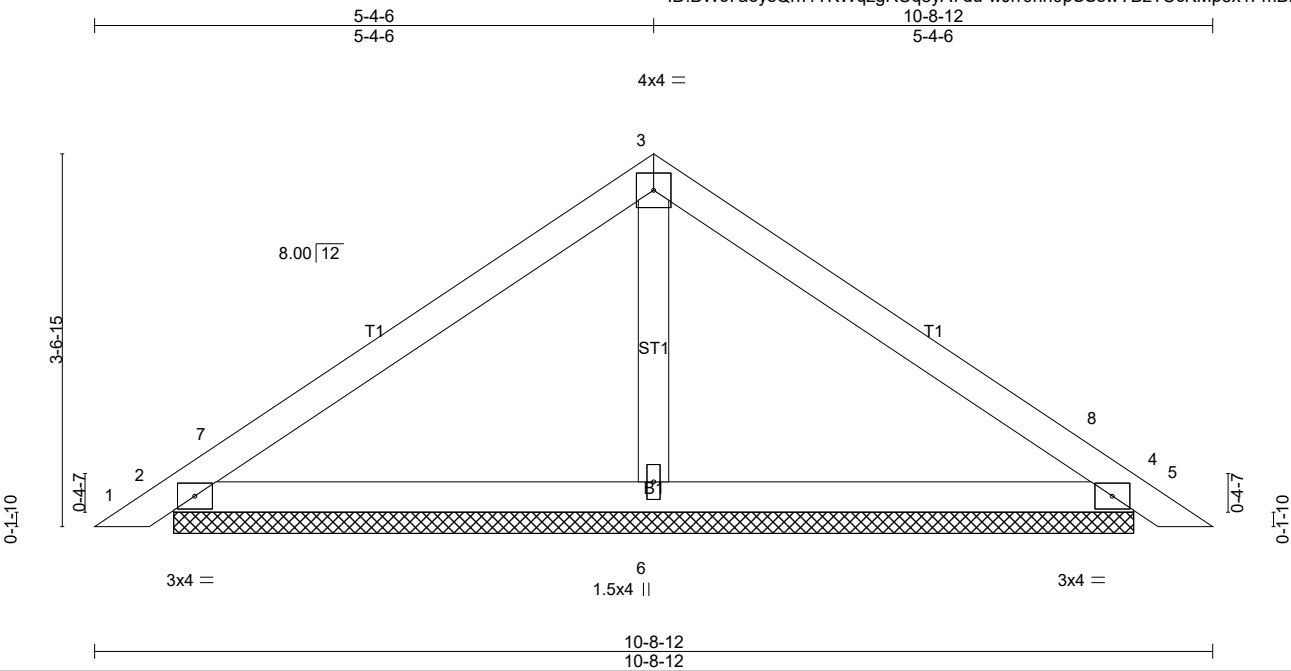


Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	PB04	Piggyback	10	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

ID:BWc7aeySqn7rTKWqzgRUq8yA7du-wJrr0hh0pSSswYBzTUcKmp3x1FmBKKQhUouizdy7nhh

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Scale = 1:22.1

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.39	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) 0.01 5 n/r 180		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Vert(CT) 0.01 5 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 37 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) 2=185/9-2-8 (min. 0-1-8), 4=185/9-2-8 (min. 0-1-8), 6=332/9-2-8 (min. 0-1-8)  
Max Horz 2=-80(LC 14)  
Max Uplift 2=-39(LC 16), 4=-50(LC 17), 6=-5(LC 16)  
Max Grav 2=245(LC 23), 4=245(LC 24), 6=372(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-2 to 3-3-2, Interior(1) 3-3-2 to 5-4-6, Exterior(2R) 5-4-6 to 8-4-6, Interior(1) 8-4-6 to 10-5-10 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 15.4 psf on overhangs non-concurrent with other live loads.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
  - This truss is designed in accordance with the 2018 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





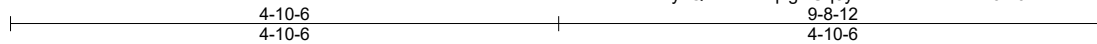
Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	PB06	Piggyback	5	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

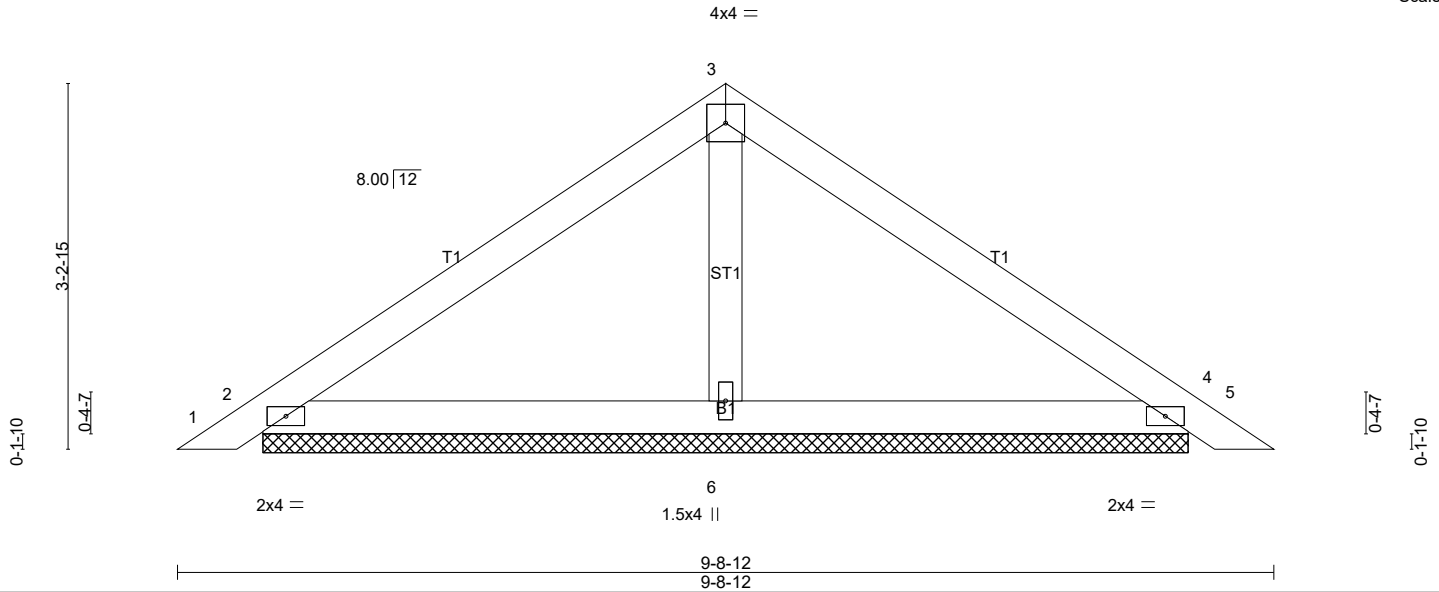
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9-8-12



Scale = 1:20.4



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) 0.01 5 n/r 180		
BCDL 10.0	Lumber DOL 1.15	WB 0.05	Vert(CT) 0.02 5 n/r 120		
TCDL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
BCLL 10.0	Code IRC2018/TPI2014			Weight: 33 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) 2=182/8-2-8 (min. 0-1-8), 4=182/8-2-8 (min. 0-1-8), 6=268/8-2-8 (min. 0-1-8)  
 Max Horz 2=72(LC 15)  
 Max Uplift 2=46(LC 16), 4=56(LC 17)  
 Max Grav 2=249(LC 23), 4=249(LC 24), 6=298(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-2 to 3-3-2, Interior(1) 3-3-2 to 4-10-6, Exterior(2R) 4-10-6 to 7-10-6, Interior(1) 7-10-6 to 9-5-10 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 15.4 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss is designed in accordance with the 2018 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.

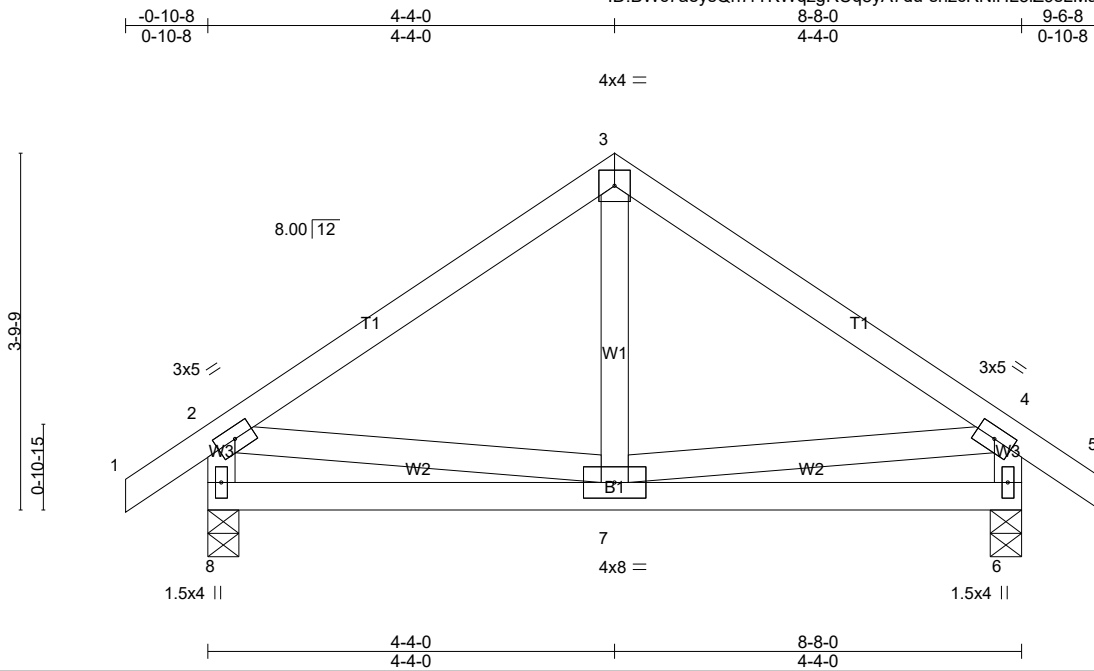
**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T01	Common	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:24.5

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) -0.01 6-7 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Vert(CT) -0.02 6-7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 50 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) 8=348/0-4-0 (min. 0-1-8), 6=348/0-4-0 (min. 0-1-8)  
 Max Horz 8=-105(LC 14)  
 Max Uplift 8=-47(LC 16), 6=-47(LC 17)  
 Max Grav 8=432(LC 23), 6=432(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-321/88, 3-4=-321/88, 2-8=-400/169, 4-6=-400/169

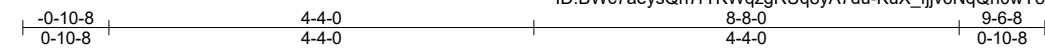
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-4-0, Exterior(2R) 4-4-0 to 7-4-0, Interior(1) 7-4-0 to 9-6-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 15.4 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) 8, 6.
  - This truss is designed in accordance with the 2018 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	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T01GE	GABLE	1	1	Job Reference (optional)

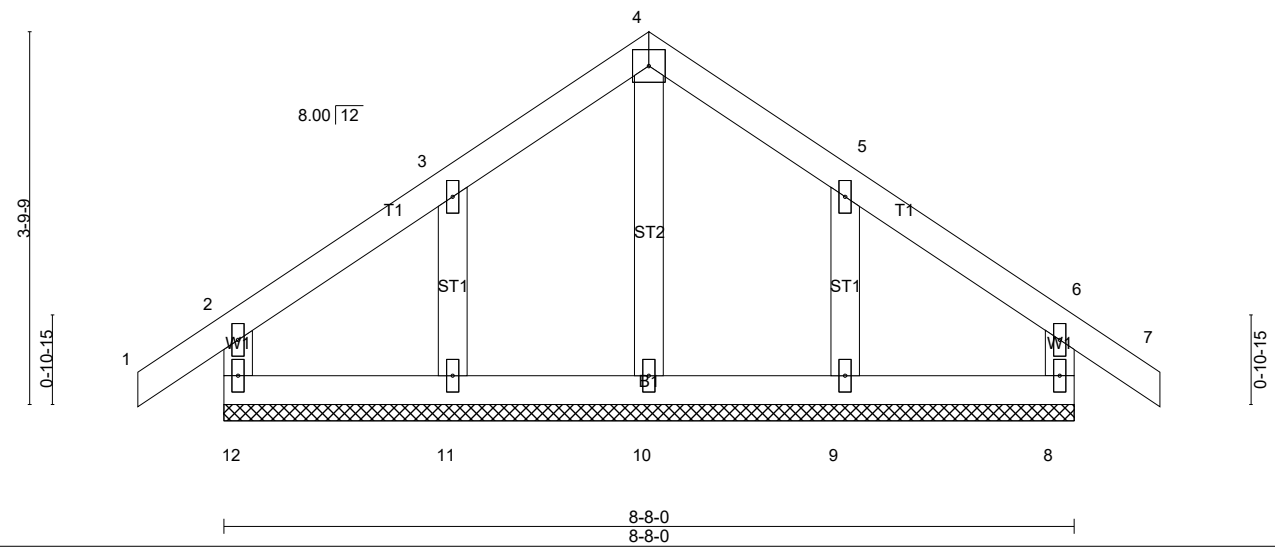
Riverside Roof Truss, LLC, Danville, VA. 24541 8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:28:53 2024 Page 1

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4x4 =

Scale = 1:23.5



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) -0.00 7 n/r 180	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00 7 n/r 120		
TCDL 10.0	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 8 n/a n/a		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-R			
BCDL 10.0				Weight: 44 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 6-0-0 oc bracing.  
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 8-8-0.  
(lb) - Max Horz 12=-105(LC 14)  
Max Uplift All uplift 100 lb or less at joint(s) 12, 8, 11, 9  
Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10, 11, 9

**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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-4-0, Exterior(2N) 2-4-0 to 4-4-0, Corner(3R) 4-4-0 to 7-4-0, Exterior(2N) 7-4-0 to 9-6-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are 1.5x4 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.
- \* 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, 8, 11, 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job 24-6852-A	Truss T02	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	ALAN MEZA-OLD MILL RD ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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-0-10-8	15-1-10	24-10-6	40-0-0	40-10-8
0-10-8	15-1-10	9-8-12	15-1-10	0-10-8

Scale = 1:70.0

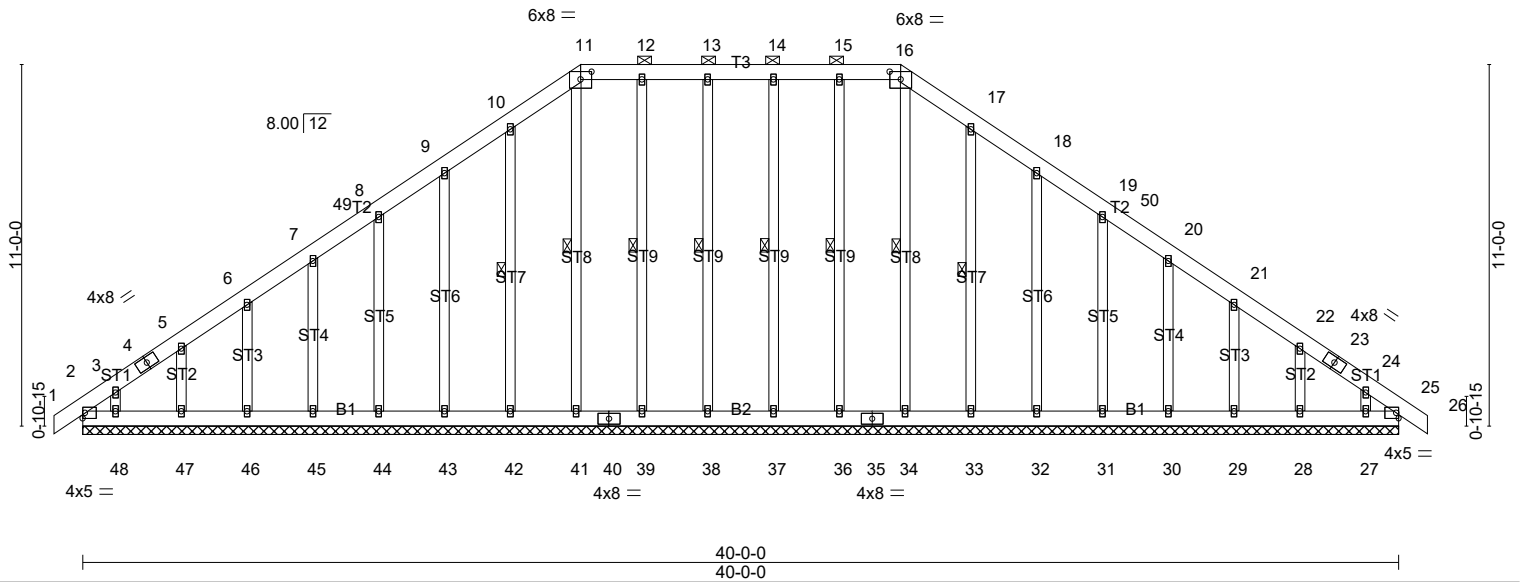


Plate Offsets (X,Y)-- [11:0-4-0,0-2-13], [16:0-4-0,0-2-13]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.04	Vert(LL)	0.00	25	n/r	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	-0.00	25	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Horz(CT)	0.01	25	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 394 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 11-16.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 13-38, 12-39, 11-41, 10-42, 14-37, 15-36, 16-34, 17-33

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

**REACTIONS.** All bearings 40-0-0.  
 (lb) - Max Horz 2=251(LC 15)  
 Max Uplift All uplift 100 lb or less at joint(s) 38, 39, 41, 42, 43, 44, 45, 46, 47, 37, 36, 33, 32, 31, 30, 29, 28, 25 except 2=-126(LC 12), 48=-122(LC 16), 27=-101(LC 17)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 38, 39, 41, 42, 43, 44, 45, 46, 47, 48, 37, 36, 34, 33, 32, 31, 30, 29, 28, 27, 25

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-303/237

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 15-1-10, Corner(3R) 15-1-10 to 18-1-10, Exterior(2N) 18-1-10 to 24-10-6, Corner(3R) 24-10-6 to 27-10-6, Exterior(2N) 27-10-6 to 40-10-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - 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 15.4 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.
  - 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) 38, 39, 41, 42, 43, 44, 45, 46, 47, 37, 36, 33, 32, 31, 30, 29, 28, 25 except (jt=lb) 2=126, 48=122, 27=101.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T02	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:28:56 2024 Page 2  
 ID:BWc7aeysQn7rTKWqzgRUq8yA7du-ITC7HlnPIC?eTe7pkjkb4J2xgsVk?batkL0AHy7nhL

**NOTES-**

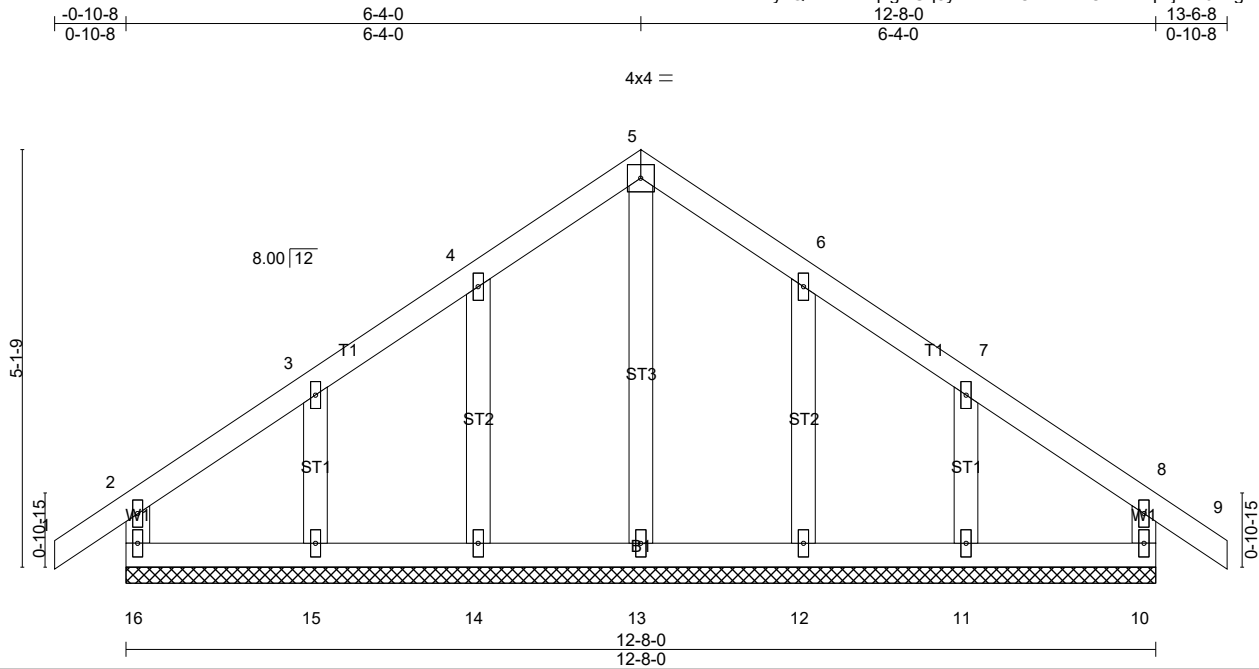
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T02GE	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:28:56 2024 Page 1  
 ID:BWc7aeysQn7rTKWqzgRUq8yA7du-ITC7HlnPIC?eTe7pkjkb4J11gsDk1matkL0AHy7nhL



Scale = 1:28.3

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 9 n/r 180		
TCDL 10.0	Lumber DOL 1.15	WB 0.07	Vert(CT) -0.00 9 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 10 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 69 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 6-0-0 oc bracing.  
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 12-8-0.  
 (lb) - Max Horz 16=136(LC 15)  
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11  
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

**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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-4-0, Exterior(2N) 2-4-0 to 6-4-0, Corner(3R) 6-4-0 to 9-4-0, Exterior(2N) 9-4-0 to 13-6-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 15.4 psf on overhangs non-concurrent with other live loads.
  - All plates are 1.5x4 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.
  - \* 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) 16, 10, 14, 15, 12, 11.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

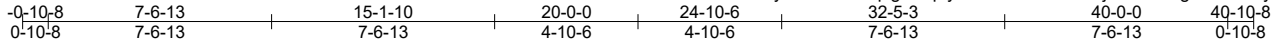
**LOAD CASE(S)** Standard

Job 24-6852-A	Truss T03	Truss Type Piggyback Base	Qty 5	Ply 1	ALAN MEZA-OLD MILL RD ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:28:58 2024 Page 1

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Scale = 1:78.1

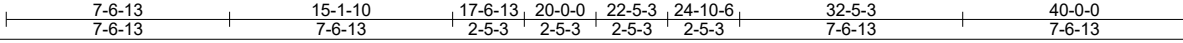
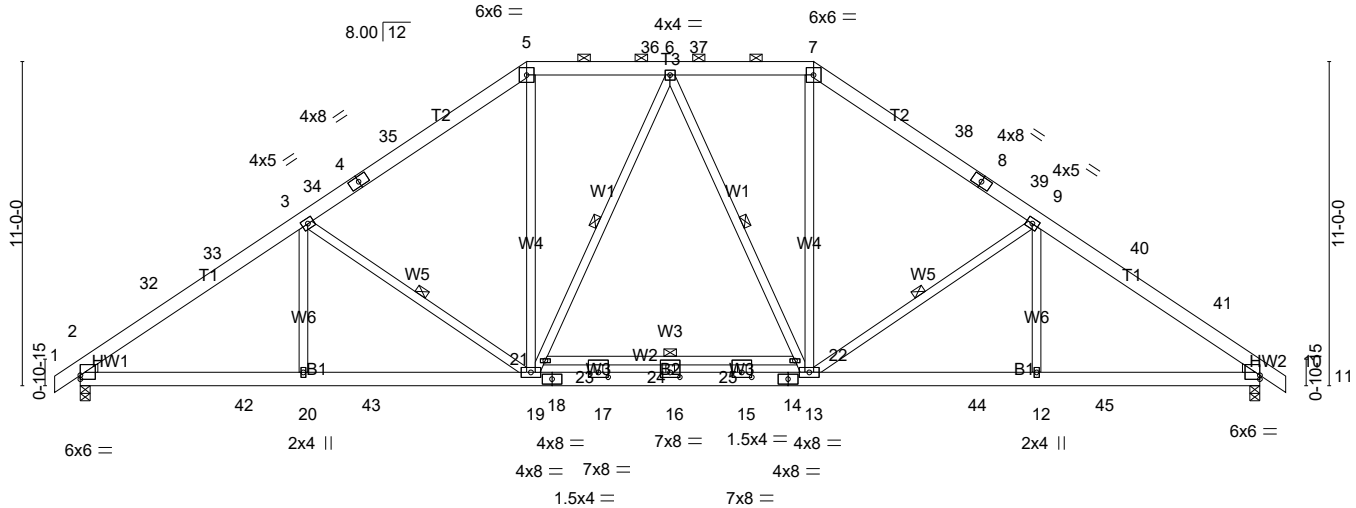


Plate Offsets (X,Y)-- [2:0-0-0,0-1-10], [10:0-0-0,0-1-10], [23:0-4-0,0-2-0], [24:0-4-0,0-2-0], [25:0-4-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.92	Vert(LL) -0.12 12-13 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.34	Vert(CT) -0.28 16 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.10 10 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 327 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-10-10 oc purlins, except 2-0-0 oc purlins (5-3-13 max.): 5-7.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-19, 6-19, 6-13, 9-13, 21-22

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

**REACTIONS.** (lb/size) 2=1597/0-4-0 (min. 0-2-6), 10=1597/0-4-0 (min. 0-2-6)  
 Max Horz 2=252(LC 15)  
 Max Uplift 2=-82(LC 16), 10=-82(LC 17)  
 Max Grav 2=1997(LC 47), 10=1997(LC 47)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-32=-2909/65, 32-33=-2862/74, 3-33=-2716/101, 3-34=-2334/45, 4-34=-2256/45, 4-35=-2196/63, 5-35=-2174/91, 5-36=-1813/136, 6-36=-1813/136, 6-37=-1813/136, 7-37=-1813/136, 7-38=-2174/91, 8-38=-2196/63, 8-39=-2256/45, 9-39=-2334/45, 9-40=-2716/102, 40-41=-2862/74, 10-41=-2909/66  
 BOT CHORD 2-42=-130/2431, 20-42=-130/2431, 20-43=-130/2431, 19-43=-130/2431, 18-19=0/1809, 17-18=0/1809, 16-17=0/1809, 15-16=0/1809, 14-15=0/1809, 13-14=0/1809, 13-44=0/2330, 12-44=0/2330, 12-45=0/2330, 10-45=0/2330  
 WEBS 3-20=0/305, 3-19=-771/259, 5-19=0/831, 19-21=-302/172, 6-21=-283/195, 6-22=-283/195, 13-22=-302/169, 7-13=0/831, 9-13=-772/260, 9-12=0/305

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) 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(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-1-10, Exterior(2R) 15-1-10 to 19-4-9, Interior(1) 19-4-9 to 24-10-6, Exterior(2R) 24-10-6 to 29-1-5, Interior(1) 29-1-5 to 40-10-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - 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 15.4 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) 2, 10.
  - This truss is designed in accordance with the 2018 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	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T03	Piggyback Base	5	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:28:58 2024 Page 2  
ID:BWc7aeysQn7rTKWqzgrUq8yA7du-hrKtiRn1xvTjtnoVx9lCgVPEAUkyCsytk2q7F9y7nh

**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.

**LOAD CASE(S) Standard**

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-51, 5-7=-61, 7-11=-51, 26-29=-20, 21-22=-20
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-60, 5-7=-60, 7-11=-60, 26-29=-20, 21-22=-20
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-50, 5-7=-50, 7-11=-50, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
- 4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-43, 5-7=-51, 7-11=-43, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
- 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-43, 5-36=-43, 7-36=-61, 7-11=-27, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
- 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-27, 5-37=-61, 7-37=-43, 7-11=-43, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-5=-20, 5-7=-20, 7-11=-20, 26-29=-40, 21-22=-20
- 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=35, 2-32=17, 5-32=9, 5-36=23, 7-36=9, 7-38=23, 10-38=9, 10-11=4, 26-29=-12, 21-22=-20  
Horz: 1-2=-47, 2-32=-29, 5-32=-21, 7-38=35, 10-38=21, 10-11=16
- 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=4, 2-35=9, 5-35=23, 5-37=9, 7-37=23, 7-41=9, 10-41=17, 10-11=35, 26-29=-12, 21-22=-20  
Horz: 1-2=-16, 2-35=-21, 5-35=-35, 7-41=21, 10-41=29, 10-11=47
- 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=-11, 2-5=-34, 5-7=-34, 7-10=-34, 10-11=-29, 26-29=-20, 21-22=-20  
Horz: 1-2=-9, 2-5=14, 7-10=-14, 10-11=-9
- 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=-29, 2-5=-34, 5-7=-34, 7-10=-34, 10-11=-11, 26-29=-20, 21-22=-20  
Horz: 1-2=9, 2-5=14, 7-10=-14, 10-11=9
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-2, 2-5=-15, 5-7=25, 7-10=9, 10-11=4, 26-29=-12, 21-22=-20  
Horz: 1-2=10, 2-5=3, 7-10=21, 10-11=16
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=4, 2-5=9, 5-7=25, 7-10=-15, 10-11=-2, 26-29=-12, 21-22=-20  
Horz: 1-2=-16, 2-5=-21, 7-10=-3, 10-11=10
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-28, 2-5=-33, 5-7=6, 7-10=-10, 10-11=-4, 26-29=-20, 21-22=-20  
Horz: 1-2=8, 2-5=13, 7-10=10, 10-11=16
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-4, 2-5=-10, 5-7=6, 7-10=-33, 10-11=-28, 26-29=-20, 21-22=-20  
Horz: 1-2=-16, 2-5=-10, 7-10=-13, 10-11=-8
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=19, 2-5=25, 5-6=25, 6-7=9, 7-10=9, 10-11=4, 26-29=-12, 21-22=-20  
Horz: 1-2=-31, 2-5=-37, 7-10=21, 10-11=16
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=4, 2-5=9, 5-6=9, 6-7=25, 7-10=25, 10-11=19, 26-29=-12, 21-22=-20  
Horz: 1-2=-16, 2-5=-21, 7-10=37, 10-11=31
- 18) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=8, 2-5=14, 5-6=14, 6-7=4, 7-10=4, 10-11=-1, 26-29=-12, 21-22=-20  
Horz: 1-2=-20, 2-5=-26, 7-10=16, 10-11=11
- 19) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-1, 2-5=4, 5-6=4, 6-7=14, 7-10=14, 10-11=8, 26-29=-12, 21-22=-20  
Horz: 1-2=-11, 2-5=-16, 7-10=26, 10-11=20
- 20) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T03	Piggyback Base	5	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:28:58 2024 Page 3  
ID:BWc7aeysQn7rTKWqzgRUq8yA7du-hrKtiRn1xvTjtnoVx9lCgVPEAUkYcSykK2q7F9y7nh

**LOAD CASE(S) Standard**

- Uniform Loads (plf)
  - Vert: 1-2=11, 2-5=6, 5-6=6, 6-7=-10, 7-10=-10, 10-11=-4, 26-29=-20, 21-22=-20
  - Horz: 1-2=-31, 2-5=-26, 7-10=10, 10-11=16
- 21) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=-4, 2-5=-10, 5-6=-10, 6-7=6, 7-10=6, 10-11=11, 26-29=-20, 21-22=-20
    - Horz: 1-2=-16, 2-5=-10, 7-10=26, 10-11=31
- 22) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-2=-51, 2-5=-20, 5-7=-20, 7-10=-20, 10-11=-51, 26-29=-20, 21-22=-20
- 23) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-5=-51, 5-36=-51, 7-36=-74, 7-11=-29, 26-29=-20, 21-22=-20
- 24) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-5=-29, 5-37=-74, 7-37=-51, 7-11=-51, 26-29=-20, 21-22=-20
- 25) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
  - Uniform Loads (plf)
    - Vert: 1-5=-20, 5-7=-20, 7-11=-20, 26-42=-40, 42-43=-60, 43-44=-40, 44-45=-60, 29-45=-40, 21-22=-20
- 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=-49, 2-5=-53, 5-7=-31, 7-10=-35, 10-11=-31, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
    - Horz: 1-2=6, 2-5=10, 7-10=8, 10-11=12
- 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=-31, 2-5=-35, 5-7=-31, 7-10=-53, 10-11=-49, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
    - Horz: 1-2=-12, 2-5=8, 7-10=-10, 10-11=6
- 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=-20, 2-5=-24, 5-6=-31, 6-7=-43, 7-10=-35, 10-11=-31, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
    - Horz: 1-2=-24, 2-5=-20, 7-10=8, 10-11=12
- 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=-31, 2-5=-35, 5-6=-43, 6-7=-31, 7-10=-24, 10-11=-20, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
    - Horz: 1-2=-12, 2-5=8, 7-10=20, 10-11=24
- 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=-56, 2-5=-60, 5-7=-30, 7-10=-42, 10-11=-38, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
    - Horz: 1-2=6, 2-5=10, 7-10=8, 10-11=12
- 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=-38, 2-5=-42, 5-7=-30, 7-10=-56, 10-11=-56, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
    - Horz: 1-2=-12, 2-5=8, 7-10=-10, 10-11=6
- 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=-26, 2-5=-30, 5-6=-30, 6-7=-42, 7-10=-42, 10-11=-38, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
    - Horz: 1-2=-24, 2-5=-20, 7-10=8, 10-11=12
- 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=-38, 2-5=-42, 5-6=-42, 6-7=-30, 7-10=-30, 10-11=-26, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
    - Horz: 1-2=-12, 2-5=8, 7-10=20, 10-11=24
- 34) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=4, 2-5=-28, 5-7=-28, 7-11=-28, 26-29=-12, 21-22=-20
    - Horz: 1-2=-16, 2-5=16, 7-11=-16
- 35) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-5=4, 5-7=4, 7-11=4, 26-29=-12, 21-22=-20
    - Horz: 1-5=-16, 7-11=16
- 36) 3rd Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-5=-27, 5-36=-43, 7-36=-61, 7-11=-27, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
- 37) 4th Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-34=-43, 5-34=-64, 5-7=-27, 7-11=-27, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
- 38) 5th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-5=-27, 5-37=-61, 7-37=-43, 7-11=-27, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
- 39) 6th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-5=-27, 5-7=-27, 7-39=-64, 11-39=-43, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
- 40) 7th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-5=-29, 5-7=-93, 7-11=-29, 26-29=-20, 21-22=-20
- 41) 8th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-33=-51, 5-33=-93, 5-7=-29, 7-40=-93, 11-40=-51, 26-29=-20, 21-22=-20

Continued on page 4

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T03	Piggyback Base	5	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:28:58 2024 Page 4  
ID:BWc7aeysQn7rTKWqzgRUq8yA7du-hrKtiRn1xvTjtnoVx9lCgVPEAUkyCsytk2q7F9y7nh

**LOAD CASE(S) Standard**

- 42) 9th Unbal. Dead + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-29, 5-36=-51, 7-36=-74, 7-11=-29, 26-29=-20, 21-22=-20
- 43) 10th Unbal. Dead + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-34=-51, 5-34=-79, 5-7=-29, 7-11=-29, 26-29=-20, 21-22=-20
- 44) 11th Unbal. Dead + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-29, 5-37=-74, 7-37=-51, 7-11=-29, 26-29=-20, 21-22=-20
- 45) 12th Unbal. Dead + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-29, 5-7=-29, 7-39=-79, 11-39=-51, 26-29=-20, 21-22=-20
- 46) 13th Unbal. Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-27, 5-7=-75, 7-11=-27, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
- 47) 14th Unbal. Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-33=-43, 5-33=-75, 5-7=-27, 7-40=-75, 11-40=-43, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
- 48) 15th 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=-33, 2-5=-37, 5-7=-55, 7-10=-19, 10-11=-15, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20  
Horz: 1-2=6, 2-5=10, 7-10=8, 10-11=12
- 49) 16th 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=-49, 2-33=-53, 5-33=-85, 5-7=-7, 7-40=-67, 10-40=-35, 10-11=-31, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20  
Horz: 1-2=6, 2-5=10, 7-10=8, 10-11=12
- 50) 17th 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=-15, 2-5=-19, 5-7=-55, 7-10=-37, 10-11=-33, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20  
Horz: 1-2=-12, 2-5=-8, 7-10=-10, 10-11=-6
- 51) 18th 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=-31, 2-33=-35, 5-33=-67, 5-7=-7, 7-40=-85, 10-40=-53, 10-11=-49, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20  
Horz: 1-2=-12, 2-5=-8, 7-10=-10, 10-11=-6
- 52) 19th 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=-3, 2-5=-7, 5-6=-55, 6-7=-67, 7-10=-19, 10-11=-15, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20  
Horz: 1-2=-24, 2-5=-20, 7-10=8, 10-11=12
- 53) 20th 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=-20, 2-33=-24, 5-33=-55, 5-6=-7, 6-7=-19, 7-40=-67, 10-40=-35, 10-11=-31, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20  
Horz: 1-2=-24, 2-5=-20, 7-10=8, 10-11=12
- 54) 21st 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=-15, 2-5=-19, 5-6=-67, 6-7=-55, 7-10=-7, 10-11=-3, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20  
Horz: 1-2=-12, 2-5=-8, 7-10=20, 10-11=24
- 55) 22nd 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=-31, 2-33=-35, 5-33=-67, 5-6=-19, 6-7=-7, 7-40=-55, 10-40=-24, 10-11=-20, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20  
Horz: 1-2=-12, 2-5=-8, 7-10=20, 10-11=24
- 56) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-60, 5-7=-60, 7-11=-20, 26-29=-20, 21-22=-20
- 57) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-20, 5-7=-60, 7-11=-60, 26-29=-20, 21-22=-20
- 58) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-50, 5-7=-50, 7-11=-20, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
- 59) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-20, 5-7=-50, 7-11=-50, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20
- 60) 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=35, 2-32=17, 5-32=9, 5-36=23, 7-36=9, 7-38=23, 10-38=9, 10-11=4, 26-29=-12, 21-22=-20  
Horz: 1-2=-47, 2-32=-29, 5-32=-21, 7-38=35, 10-38=21, 10-11=16
- 61) 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=4, 2-35=9, 5-35=23, 5-37=9, 7-37=23, 7-41=9, 10-41=17, 10-11=35, 26-29=-12, 21-22=-20  
Horz: 1-2=-16, 2-35=-21, 5-35=-35, 7-41=21, 10-41=29, 10-11=47
- 62) 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=-11, 2-5=-34, 5-7=-34, 7-10=-34, 10-11=-29, 26-29=-20, 21-22=-20  
Horz: 1-2=-9, 2-5=14, 7-10=-14, 10-11=-9
- 63) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 5

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T03	Piggyback Base	5	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:28:58 2024 Page 5  
ID:BWc7aeysQn7rTKWqzgRUq8yA7du-hrKtiRn1xvTjtnoVx9lCgVPEAUkyCsytk2q7F9y7nh

**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-2=-29, 2-5=-34, 5-7=-34, 7-10=-34, 10-11=-11, 26-29=-20, 21-22=-20

Horz: 1-2=9, 2-5=14, 7-10=-14, 10-11=9

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

Uniform Loads (plf)

Vert: 1-2=-2, 2-5=-15, 5-7=25, 7-10=9, 10-11=4, 26-29=-12, 21-22=-20

Horz: 1-2=-10, 2-5=3, 7-10=21, 10-11=16

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

Uniform Loads (plf)

Vert: 1-2=4, 2-5=9, 5-7=25, 7-10=-15, 10-11=-2, 26-29=-12, 21-22=-20

Horz: 1-2=-16, 2-5=-21, 7-10=-3, 10-11=10

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

Uniform Loads (plf)

Vert: 1-2=-28, 2-5=-33, 5-7=6, 7-10=-10, 10-11=-4, 26-29=-20, 21-22=-20

Horz: 1-2=8, 2-5=13, 7-10=10, 10-11=16

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

Uniform Loads (plf)

Vert: 1-2=-4, 2-5=-10, 5-7=6, 7-10=-33, 10-11=-28, 26-29=-20, 21-22=-20

Horz: 1-2=-16, 2-5=-10, 7-10=-13, 10-11=-8

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

Uniform Loads (plf)

Vert: 1-2=19, 2-5=25, 5-6=25, 6-7=9, 7-10=9, 10-11=4, 26-29=-12, 21-22=-20

Horz: 1-2=-31, 2-5=-37, 7-10=21, 10-11=16

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

Uniform Loads (plf)

Vert: 1-2=4, 2-5=9, 5-6=9, 6-7=25, 7-10=25, 10-11=19, 26-29=-12, 21-22=-20

Horz: 1-2=-16, 2-5=-21, 7-10=37, 10-11=31

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

Uniform Loads (plf)

Vert: 1-2=8, 2-5=14, 5-6=14, 6-7=4, 7-10=4, 10-11=-1, 26-29=-12, 21-22=-20

Horz: 1-2=-20, 2-5=-26, 7-10=16, 10-11=11

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

Uniform Loads (plf)

Vert: 1-2=-1, 2-5=4, 5-6=4, 6-7=14, 7-10=14, 10-11=8, 26-29=-12, 21-22=-20

Horz: 1-2=-11, 2-5=-16, 7-10=26, 10-11=20

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

Uniform Loads (plf)

Vert: 1-2=11, 2-5=6, 5-6=6, 6-7=-10, 7-10=-10, 10-11=-4, 26-29=-20, 21-22=-20

Horz: 1-2=-31, 2-5=-26, 7-10=10, 10-11=16

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

Uniform Loads (plf)

Vert: 1-2=-4, 2-5=-10, 5-6=-10, 6-7=6, 7-10=6, 10-11=11, 26-29=-20, 21-22=-20

Horz: 1-2=-16, 2-5=-10, 7-10=26, 10-11=31

74) 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=-49, 2-5=-53, 5-7=-31, 7-10=-35, 10-11=-31, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=6, 2-5=10, 7-10=8, 10-11=12

75) 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=-31, 2-5=-35, 5-7=-31, 7-10=-53, 10-11=-49, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=-12, 2-5=-8, 7-10=10, 10-11=6

76) 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=-20, 2-5=-24, 5-6=-31, 6-7=-43, 7-10=-35, 10-11=-31, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=-24, 2-5=-20, 7-10=8, 10-11=12

77) 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=-31, 2-5=-35, 5-6=-43, 6-7=-31, 7-10=-24, 10-11=-20, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=-12, 2-5=-8, 7-10=20, 10-11=24

78) 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=-56, 2-5=-60, 5-7=-30, 7-10=-42, 10-11=-38, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=6, 2-5=10, 7-10=8, 10-11=12

79) 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=-38, 2-5=-42, 5-7=-30, 7-10=-60, 10-11=-56, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=-12, 2-5=-8, 7-10=10, 10-11=6

80) 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=-38, 2-5=-42, 5-7=-30, 7-10=-60, 10-11=-56, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=-12, 2-5=-8, 7-10=10, 10-11=6

80) 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

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T03	Piggyback Base	5	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:28:58 2024 Page 6  
 ID:BWc7aeysQn7rTKWqzqRUq8yA7du-hrKtiRn1xvTjtnoVx9lCgVPEAUkyCsytk2q7F9y7nhJ

**LOAD CASE(S) Standard**

Uniform Loads (plf)

Vert: 1-2=-26, 2-5=-30, 5-6=-30, 6-7=-42, 7-10=-42, 10-11=-38, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=-24, 2-5=-20, 7-10=8, 10-11=12

81) 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=-38, 2-5=-42, 5-6=-42, 6-7=-30, 7-10=-30, 10-11=-26, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=-12, 2-5=-8, 7-10=20, 10-11=24

82) Reversal: Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-5=-28, 5-7=-28, 7-11=-28, 26-29=-12, 21-22=-20

Horz: 1-2=-16, 2-5=16, 7-11=-16

83) Reversal: Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-5=4, 5-7=4, 7-11=4, 26-29=-12, 21-22=-20

Horz: 1-5=-16, 7-11=16

84) Reversal: 15th 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=-33, 2-5=-37, 5-7=-55, 7-10=-19, 10-11=-15, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=6, 2-5=10, 7-10=8, 10-11=12

85) Reversal: 16th 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=-49, 2-33=-53, 5-33=-85, 5-7=-7, 7-40=-67, 10-40=-35, 10-11=-31, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=6, 2-5=10, 7-10=8, 10-11=12

86) Reversal: 17th 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=-15, 2-5=-19, 5-7=-55, 7-10=-37, 10-11=-33, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=-12, 2-5=-8, 7-10=-10, 10-11=-6

87) Reversal: 18th 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=-31, 2-33=-35, 5-33=-67, 5-7=-7, 7-40=-85, 10-40=-53, 10-11=-49, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=-12, 2-5=-8, 7-10=-10, 10-11=-6

88) Reversal: 19th 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=-3, 2-5=-7, 5-6=-55, 6-7=-67, 7-10=-19, 10-11=-15, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=-24, 2-5=-20, 7-10=8, 10-11=12

89) Reversal: 20th 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=-20, 2-33=-24, 5-33=-55, 5-6=-7, 6-7=-19, 7-40=-67, 10-40=-35, 10-11=-31, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=-24, 2-5=-20, 7-10=8, 10-11=12

90) Reversal: 21st 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=-15, 2-5=-19, 5-6=-67, 6-7=-55, 7-10=-7, 10-11=-3, 26-42=-35, 42-43=-50, 43-44=-35, 44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=-12, 2-5=-8, 7-10=20, 10-11=24

91) Reversal: 22nd 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=-31, 2-33=-35, 5-33=-67, 5-6=-19, 6-7=-7, 7-40=-55, 10-40=-24, 10-11=-20, 26-42=-35, 42-43=-50, 43-44=-35,

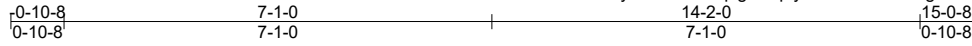
44-45=-50, 29-45=-35, 21-22=-20

Horz: 1-2=-12, 2-5=-8, 7-10=20, 10-11=24

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T03GE	GABLE	1	1	Job Reference (optional)

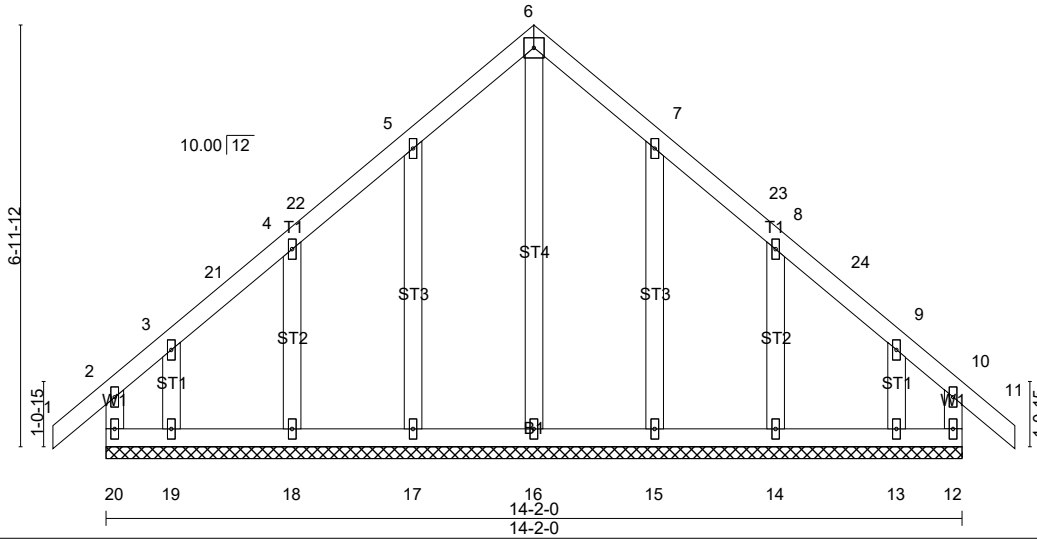
Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:28:59 2024 Page 1  
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4x4 =

Scale = 1:38.1



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) -0.00 11 n/r 180		
TCDL 10.0	Lumber DOL 1.15	WB 0.22	Vert(CT) -0.00 11 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 12 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 92 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 6-0-0 oc bracing.  
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 14-2-0.  
 (lb) - Max Horz 20=-185(LC 14)  
 Max Uplift All uplift 100 lb or less at joint(s) 12, 17, 18, 15, 14 except 20=-127(LC 12), 19=-141(LC 16), 13=-133(LC 17)  
 Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 5-6=-127/270, 6-7=-127/270  
 WEBS 6-16=-265/64

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 7-1-0, Corner(3R) 7-1-0 to 10-1-0, Exterior(2N) 10-1-0 to 15-0-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 15.4 psf on overhangs non-concurrent with other live loads.
  - All plates are 1.5x4 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.
  - \* 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, 17, 18, 15, 14 except (jt=lb) 20=127, 19=141, 13=133.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

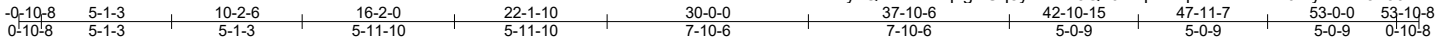
**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T04	GABLE II	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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ID:BWc7aeysQn7rTKWqzgRUq8yA7du-5Q?0KSpwDqrlkFX4clvI70myhSFP5FJ0?2nsUy7nhG



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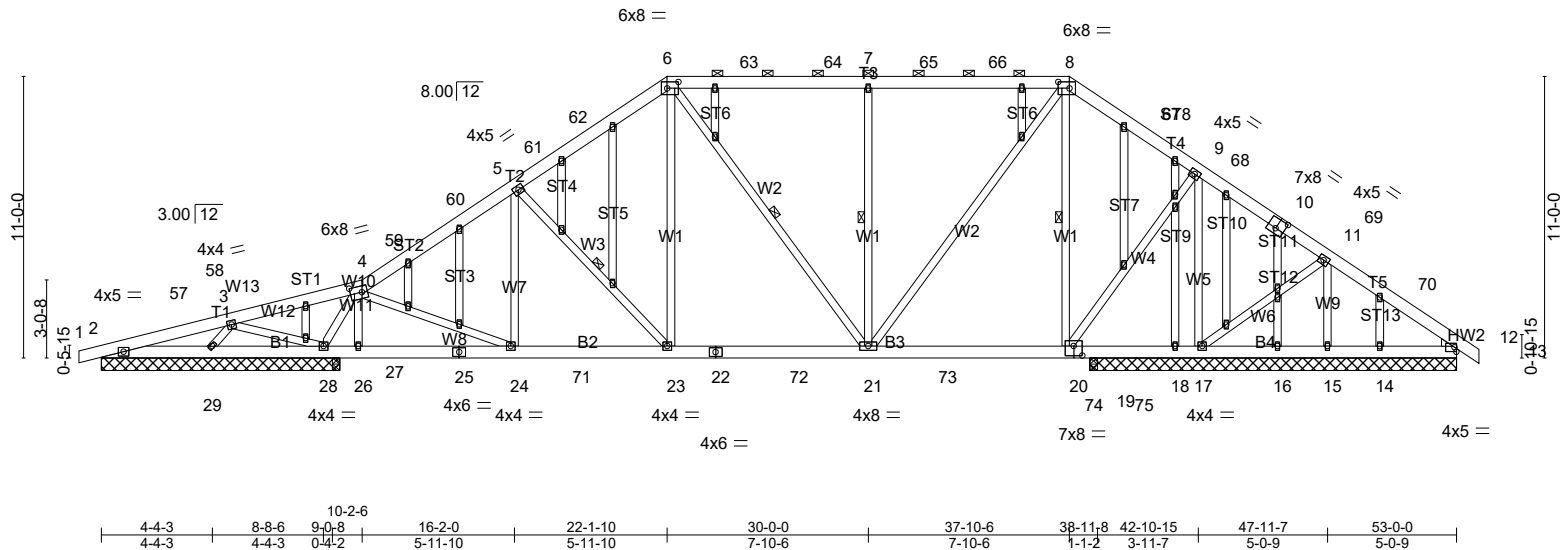


Plate Offsets (X,Y)-- [4:0-5-8,0-3-0], [6:0-5-4,0-3-0], [8:0-5-4,0-3-0], [10:0-4-0,0-4-8], [20:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.60	Vert(LL)	-0.07 20-21	>999	360	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.50	Vert(CT)	-0.12 20-21	>999	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.88	Horz(CT)	0.02 54	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 498 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-10-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-29,28-29.  
 WEBS 1 Row at midpt 5-23, 6-21, 7-21, 8-20

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

**REACTIONS.** All bearings 14-4-0 except (jt=length) 2=9-4-0, 29=9-4-0, 28=9-4-0, 27=0-3-8, 19=0-3-8, 2=9-4-0.  
 (lb) - Max Horz 2=200(LC 15)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 29, 12, 27 except 18=325(LC 42)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 16, 14, 2 except 29=445(LC 46), 28=491(LC 3), 17=1228(LC 51), 15=375(LC 43), 12=335(LC 61), 27=1432(LC 30), 19=819(LC 50), 12=294(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-58=-103/272, 3-4=-79/652, 4-59=-1510/227, 59-60=-1428/233, 5-60=-1325/255, 5-61=-1396/295, 61-62=-1358/311, 6-62=-1315/331, 6-63=-1225/327, 63-64=-1225/327, 7-64=-1225/327, 7-65=-1225/327, 65-66=-1225/327, 8-66=-1225/327, 8-67=-602/240, 9-67=-670/220, 11-69=-313/100, 12-70=-290/72  
 BOT CHORD 28-29=-266/29, 24-71=-36/1263, 23-71=-36/1263, 22-23=-20/1163, 22-72=-20/1163, 21-72=-20/1163, 21-73=0/590, 73-74=0/590, 20-74=0/590  
 WEBS 3-29=-349/162, 3-28=-404/120, 4-28=-1380/163, 4-26=-405/148, 4-24=-84/1127, 5-24=-256/106, 5-23=-337/139, 6-23=-20/538, 7-21=-848/204, 8-21=-139/1138, 8-20=-937/140, 9-20=0/640, 9-17=-947/144, 11-15=-343/76

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 22-1-10, Exterior(2R) 22-1-10 to 25-1-10, Interior(1) 25-1-10 to 37-10-6, Exterior(2R) 37-10-6 to 40-10-6, Interior(1) 40-10-6 to 53-10-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf, Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - 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 15.4 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T04	GABLE I I	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:01 2024 Page 2  
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**NOTES-**

- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) \* 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 29, 12, 27, 2, 12 except (jt=lb) 18=325.
- 13) This truss is designed in accordance with the 2018 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	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T05	Piggyback Base	6	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:03 2024 Page 1  
 ID:BWc7aeysQn7rTKWqzqRU8yA7du-1p7ml8rAIS50zYhTjJLNYY66PV68tz?cUJXuwNy7nh

-0-10-8	5-1-3	10-2-6	14-9-3	19-4-0	22-1-10	30-0-0	37-10-6	39-0-0	46-0-0	53-0-0	53-10-8
0-10-8	5-1-3	5-1-3	4-6-13	4-6-13	2-9-10	7-10-6	7-10-6	1-1-10	7-0-0	7-0-0	0-10-8

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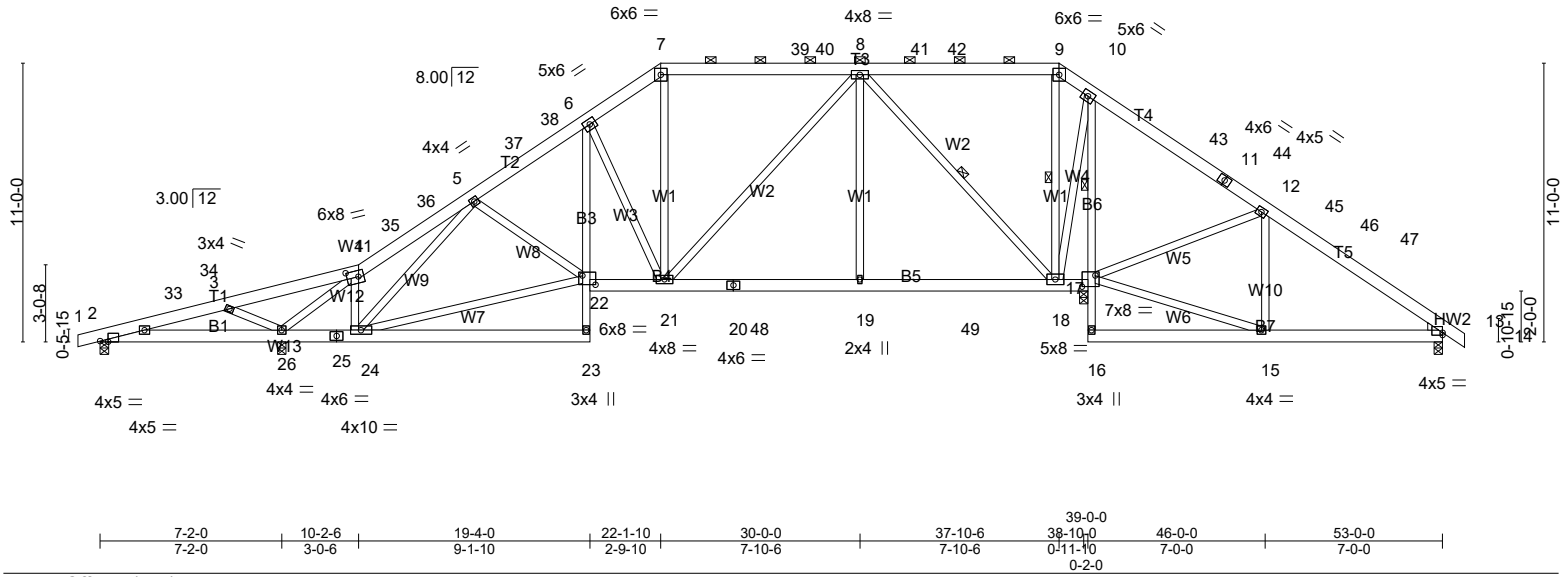


Plate Offsets (X,Y)-- [2:0-3-12,Edge], [4:0-5-8,0-3-0], [13:0-0-0,0-1-2], [17:0-6-4,0-5-4], [22:0-6-4,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.60	Vert(LL) -0.10 23-24 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 1.00	Vert(CT) -0.19 23-24 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 17 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 454 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 B3,B6: 2x4 SP No.3  
 WEBS 2x4 SP No.3  
 WEDGE  
 Right: 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-4-11 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-9.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-26,17-18,15-16.  
 WEBS 1 Row at midpt 10-17  
 1 Row at midpt 8-18, 9-18

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

**REACTIONS.** All bearings 0-4-0.  
 (lb) - Max Horz 2=258(LC 15)  
 Max Uplift All uplift 100 lb or less at joint(s) 17 except 2=-115(LC 12), 13=-116(LC 17), 26=-208(LC 16)  
 Max Grav All reactions 250 lb or less at joint(s) 2 except 13=624(LC 31), 26=2008(LC 62), 17=2156(LC 51)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-33=-129/802, 33-34=-122/818, 3-34=-121/820, 3-4=-212/1074, 4-35=-1146/214, 35-36=-1084/230, 5-36=-989/233, 5-37=-1782/336, 37-38=-1716/338, 6-38=-1715/351, 6-7=-1498/368, 7-39=-1255/340, 39-40=-1255/340, 8-40=-1255/340, 9-10=-296/236, 10-43=0/441, 43-44=0/271, 11-44=0/255, 12-45=-413/149, 45-46=-441/145, 46-47=-510/132, 13-47=-613/124  
 BOT CHORD 2-26=-663/90, 25-26=-88/919, 24-25=-88/919, 6-22=-69/642, 21-22=-192/1474, 20-21=-164/1275, 20-48=-164/1275, 19-48=-164/1275, 19-49=-164/1275, 18-49=-164/1275, 10-17=-1637/253, 13-15=-6/425  
 WEBS 3-26=-743/190, 4-26=-2409/364, 4-24=0/546, 5-24=-875/182, 22-24=-212/1454, 6-21=-830/202, 7-21=-84/537, 8-21=-85/515, 8-19=0/468, 8-18=-1511/201, 10-18=-128/1312, 15-17=-11/473, 12-17=-729/224

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 4-5-2, Interior(1) 4-5-2 to 22-1-10, Exterior(2R) 22-1-10 to 27-5-4, Interior(1) 27-5-4 to 37-10-6, Exterior(2R) 37-10-6 to 43-2-0, Interior(1) 43-2-0 to 53-10-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - 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 15.4 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T05	Piggyback Base	6	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:03 2024 Page 2  
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**NOTES-**

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 2=115, 13=116, 26=208.
- 10) This truss is designed in accordance with the 2018 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	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T06	Piggyback Base	4	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:04 2024 Page 1  
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0-10-8	5-1-3	5-1-3	4-6-13	4-6-13	2-9-10	7-10-6	7-10-6	1-1-10	7-0-0	7-0-0	0-10-8

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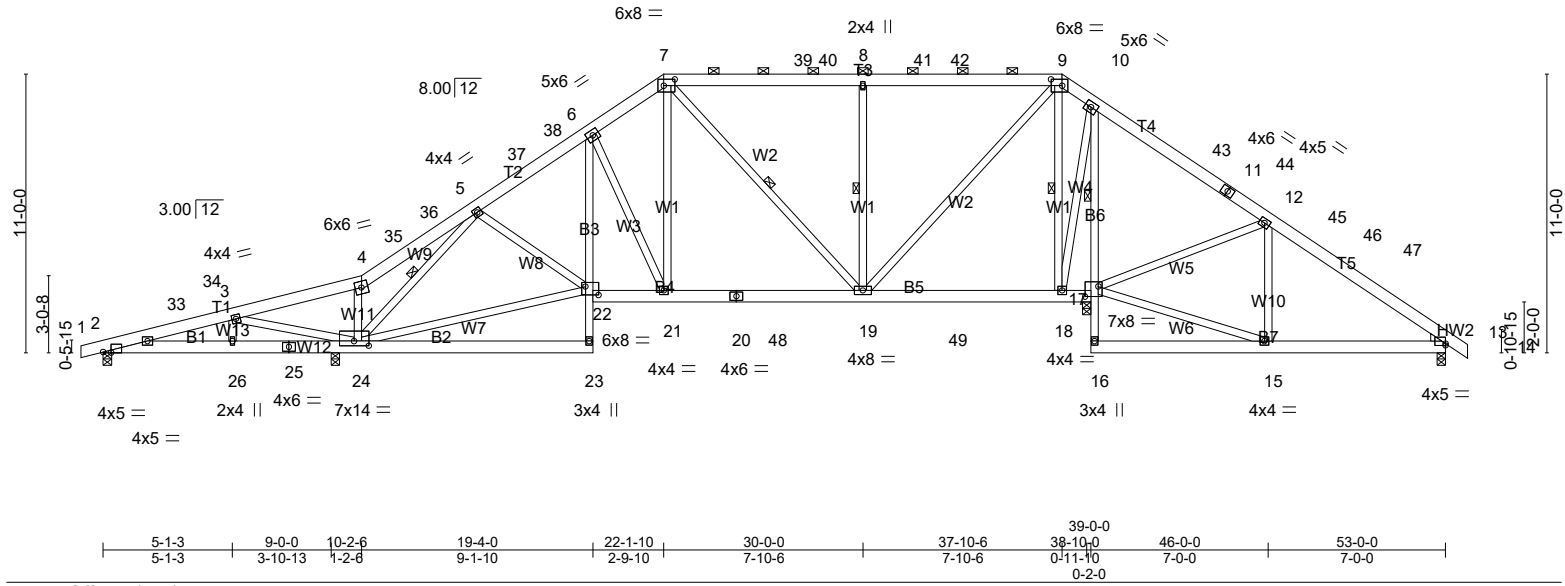


Plate Offsets (X,Y)-- [2:0-3-12,Edge], [7:0-5-4,0-3-0], [9:0-5-4,0-3-0], [13:0-0-0,0-0-14], [17:0-6-4,0-4-12], [22:0-6-4,0-4-0], [24:0-7-0,0-2-4]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.08 19-21	>999	360	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.14 23-24	>999	240		
TCDL 10.0	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.05 13	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-MS						
BCDL 10.0								Weight: 454 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-10-6 oc purlins, except 2-0-0 oc purlins (5-11-9 max.): 7-9.
BOT CHORD 2x6 SP No.2 *Except* B3,B6: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18,15-16. 1 Row at midpt 10-17
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-24, 7-19, 8-19, 9-18
WEDGE Right: 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 0-4-0.  
 (lb) - Max Horz 2=258(LC 15)  
 Max Uplift All uplift 100 lb or less at joint(s) 17 except 2=-115(LC 12), 13=-109(LC 17), 24=-192(LC 16)  
 Max Grav All reactions 250 lb or less at joint(s) except 2=456(LC 46), 13=726(LC 31), 24=1913(LC 62), 17=1880(LC 51)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-33=-573/229, 33-34=-555/233, 3-34=-520/235, 3-4=-168/466, 4-35=-130/454, 35-36=-115/554, 5-36=-100/555, 5-37=-1498/293, 37-38=-1473/295, 6-38=-1466/309, 6-7=-1387/348, 7-39=-1228/324, 39-40=-1228/324, 8-40=-1228/324, 8-41=-1228/324, 41-42=-1228/324, 9-42=-1228/324, 9-10=-529/264, 11-12=-285/109, 12-45=-571/173, 45-46=-597/169, 46-47=-666/156, 13-47=-769/149  
 BOT CHORD 2-26=-127/549, 25-26=-127/549, 24-25=-127/549, 6-22=-35/325, 21-22=-194/1296, 20-21=-164/1236, 20-48=-164/1236, 19-48=-164/1236, 19-49=-68/485, 18-49=-68/485, 17-18=-94/322, 10-17=-1361/219, 13-15=-1/552  
 WEBS 3-24=-977/213, 5-24=-1934/305, 22-24=-214/1002, 5-22=0/463, 6-21=-574/161, 7-21=-71/729, 7-19=-356/164, 8-19=-844/224, 9-19=-166/1261, 9-18=-912/210, 10-18=-108/1019, 15-17=-16/590, 12-17=-673/228

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 4-5-2, Interior(1) 4-5-2 to 22-1-10, Exterior(2R) 22-1-10 to 27-5-4, Interior(1) 27-5-4 to 37-10-6, Exterior(2R) 37-10-6 to 43-2-0, Interior(1) 43-2-0 to 53-10-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - 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 15.4 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
- Continued on page 2

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T06	Piggyback Base	4	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:04 2024 Page 2  
 ID:BWc7aeysQn7rTKWqzgRUq8yA7du-W?h8yUroWIDsbIGfHQscwmeHGvUgcV?lizHRSpY7nhD

**NOTES-**

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 2=115, 13=109, 24=192.
- 10) This truss is designed in accordance with the 2018 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

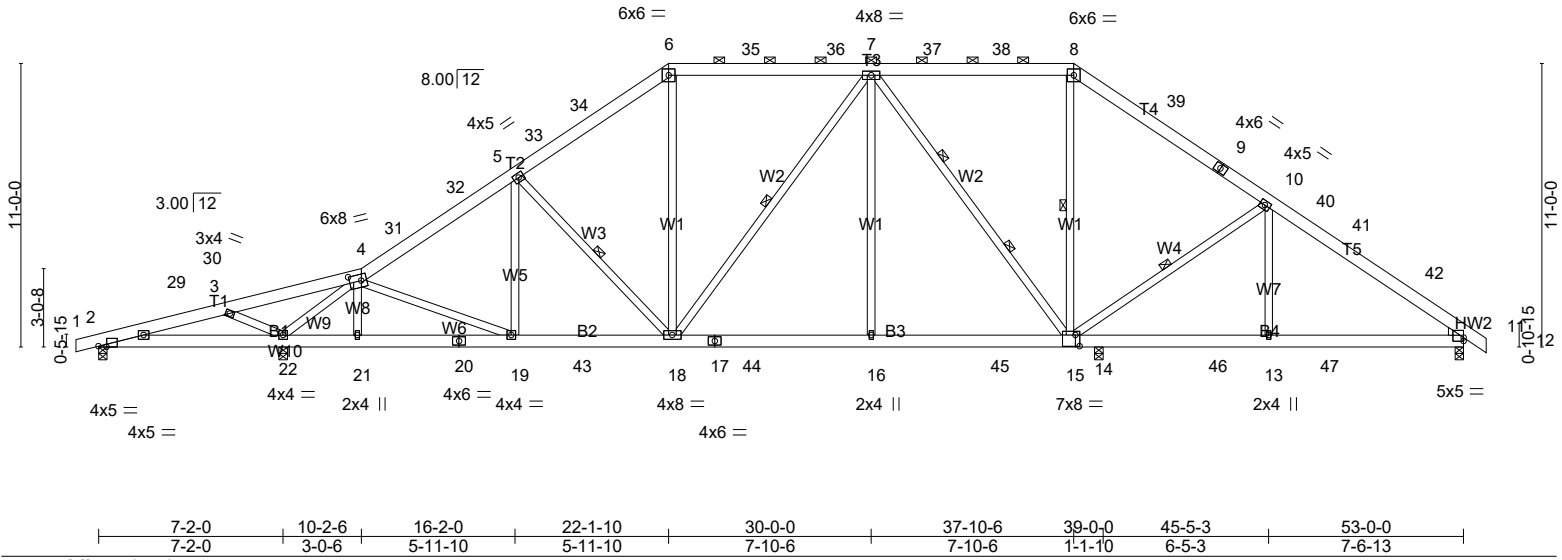
Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T07	Piggyback Base	6	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:06 2024 Page 1  
 ID:BWc7aeysQn7rTKWqzgRUq8yA7du-SOpvNat32NTaq0P2Pru4?BkdZi7u4NU2AHmYXiy7nhh

-0-10-8	5-1-3	10-2-6	16-2-0	22-1-10	30-0-0	37-10-6	45-5-3	53-0-0	53-10-8
0-10-8	5-1-3	5-1-3	5-11-10	5-11-10	7-10-6	7-10-6	7-6-13	7-6-13	0-10-8

Scale = 1:89.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.61	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.66	Vert(LL) -0.13 15-16 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.82	Vert(CT) -0.22 15-16 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 11 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 414 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 B4: 2x6 SP 2400F 2.0E  
 WEBS 2x4 SP No.3  
 WEDGE  
 Right: 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins, except 2-0-0 oc purlins (5-10-4 max.): 6-8.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-22.  
 WEBS 1 Row at midpt 5-18, 7-18, 8-15, 10-15  
 2 Rows at 1/3 pts 7-15

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

**REACTIONS.** All bearings 0-4-0.  
 (lb) - Max Horz 2=200(LC 15)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 11  
 Max Grav All reactions 250 lb or less at joint(s) except 2=253(LC 46), 22=2219(LC 3), 11=1132(LC 55), 14=1491(LC 51)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-29=-60/723, 29-30=-59/723, 3-30=-56/741, 3-4=-156/1025, 4-31=-1938/299, 31-32=-1860/305, 5-32=-1748/327, 5-33=-1612/345, 33-34=-1574/361, 6-34=-1531/381, 6-35=-1313/372, 35-36=-1313/372, 7-36=-1313/372, 7-37=-689/299, 37-38=-689/299, 8-38=-689/299, 8-39=-794/287, 9-39=-821/265, 9-10=-881/241, 10-40=-1188/242, 40-41=-1209/224, 41-42=-1303/215, 11-42=-1381/206  
 BOT CHORD 2-22=-630/75, 21-22=-79/1170, 20-21=-83/1167, 19-20=-83/1167, 19-43=-92/1623, 18-43=-92/1623, 17-18=0/1422, 17-44=0/1422, 16-44=0/1422, 16-45=0/1422, 15-45=0/1422, 14-15=-72/1062, 14-46=-72/1062, 13-46=-72/1062, 13-47=-72/1062, 11-47=-72/1062  
 WEBS 3-22=-735/169, 4-22=-2622/395, 4-19=-10/510, 5-18=-571/167, 6-18=-42/538, 7-16=0/532, 7-15=-1249/137, 10-15=-683/194

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 22-1-10, Exterior(2R) 22-1-10 to 25-1-10, Interior(1) 25-1-10 to 37-10-6, Exterior(2R) 37-10-6 to 40-10-6, Interior(1) 40-10-6 to 53-10-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - 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 15.4 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T07	Piggyback Base	6	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:06 2024 Page 2  
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**NOTES-**

- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
- 10) This truss is designed in accordance with the 2018 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.

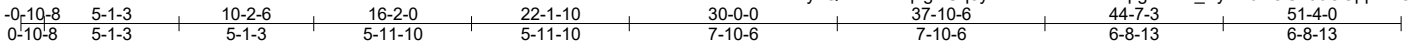
**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T08	Piggyback Base	1	1	Job Reference (optional)

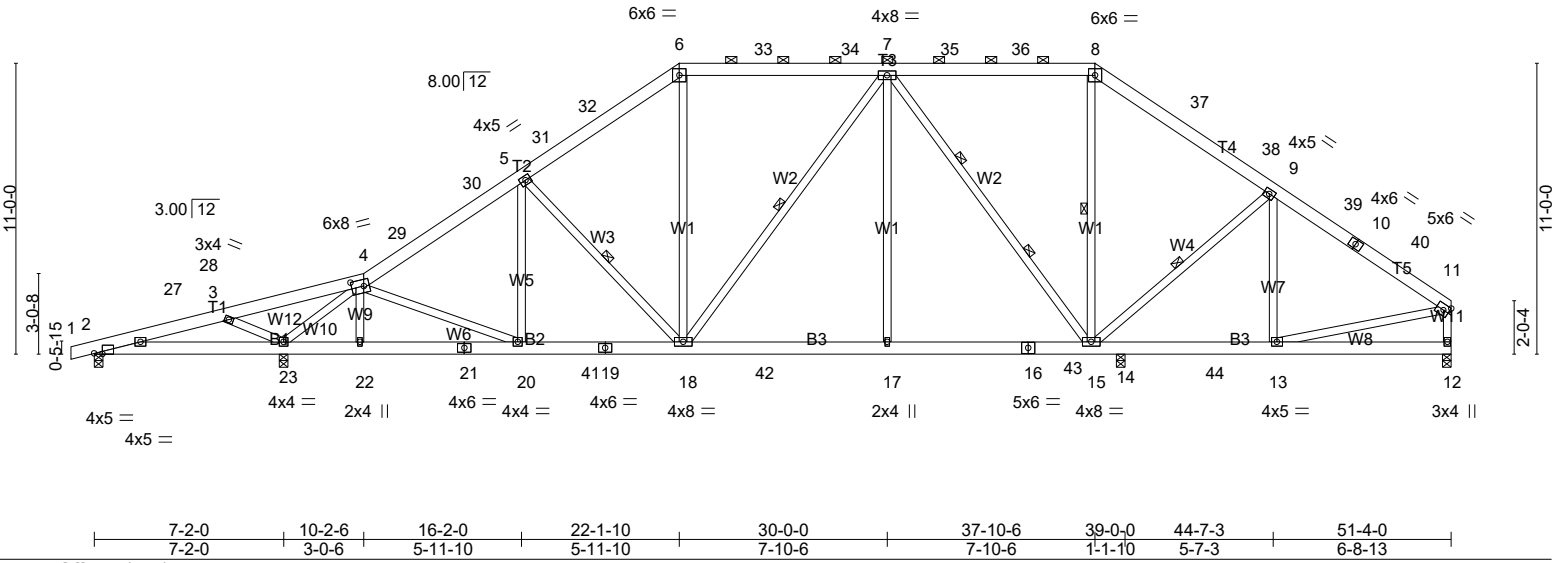
Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:07 2024 Page 1

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Scale = 1:87.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.61	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.91	Vert(LL) -0.12 15-17 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.83	Vert(CT) -0.22 15-17 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 12 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 414 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-4 max.): 6-8.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-23.  
 WEBS 1 Row at midpt 5-18, 7-18, 8-15, 9-15  
 2 Rows at 1/3 pts 7-15

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

**REACTIONS.** All bearings 0-4-0.  
 (lb) - Max Horz 2=218(LC 15)  
 Max Uplift All uplift 100 lb or less at joint(s) 2  
 Max Grav All reactions 250 lb or less at joint(s) 2 except 23=2244(LC 3), 12=1125(LC 55), 14=1243(LC 51)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-27=-100/724, 27-28=-99/724, 3-28=-92/742, 3-4=-218/1026, 4-29=-1983/295, 29-30=-1905/300, 5-30=-1792/322, 5-31=-1658/340, 31-32=-1620/356, 6-32=-1577/376, 6-33=-1351/360, 33-34=-1351/360, 7-34=-1351/360, 7-35=-760/289, 35-36=-760/289, 8-36=-760/289, 8-37=-883/270, 37-38=-913/250, 9-38=-960/230, 9-39=-1010/198, 10-39=-1113/177, 10-40=-1131/174, 11-40=-1204/172, 11-12=-981/166  
 BOT CHORD 2-23=-639/75, 22-23=-141/1195, 21-22=-145/1193, 20-21=-145/1193, 20-41=-179/1656, 19-41=-179/1656, 18-19=-179/1656, 18-42=-72/1477, 17-42=-72/1477, 17-43=-72/1477, 16-43=-72/1477, 15-16=-72/1477, 14-15=-93/927, 14-44=-93/927, 13-44=-93/927  
 WEBS 3-23=-726/169, 4-23=-2659/404, 4-20=-37/519, 5-18=-569/158, 6-18=-39/564, 7-18=-250/170, 7-17=0/532, 7-15=-1215/149, 9-15=-448/157, 11-13=-49/848

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 22-1-10, Exterior(2R) 22-1-10 to 25-1-10, Interior(1) 25-1-10 to 37-10-6, Exterior(2R) 37-10-6 to 40-10-6, Interior(1) 40-10-6 to 51-2-4 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - 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 15.4 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T08	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:07 2024 Page 2  
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**NOTES-**

- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 10) This truss is designed in accordance with the 2018 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

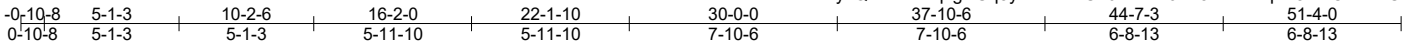


Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T09	GABLE II	1	1	Job Reference (optional)

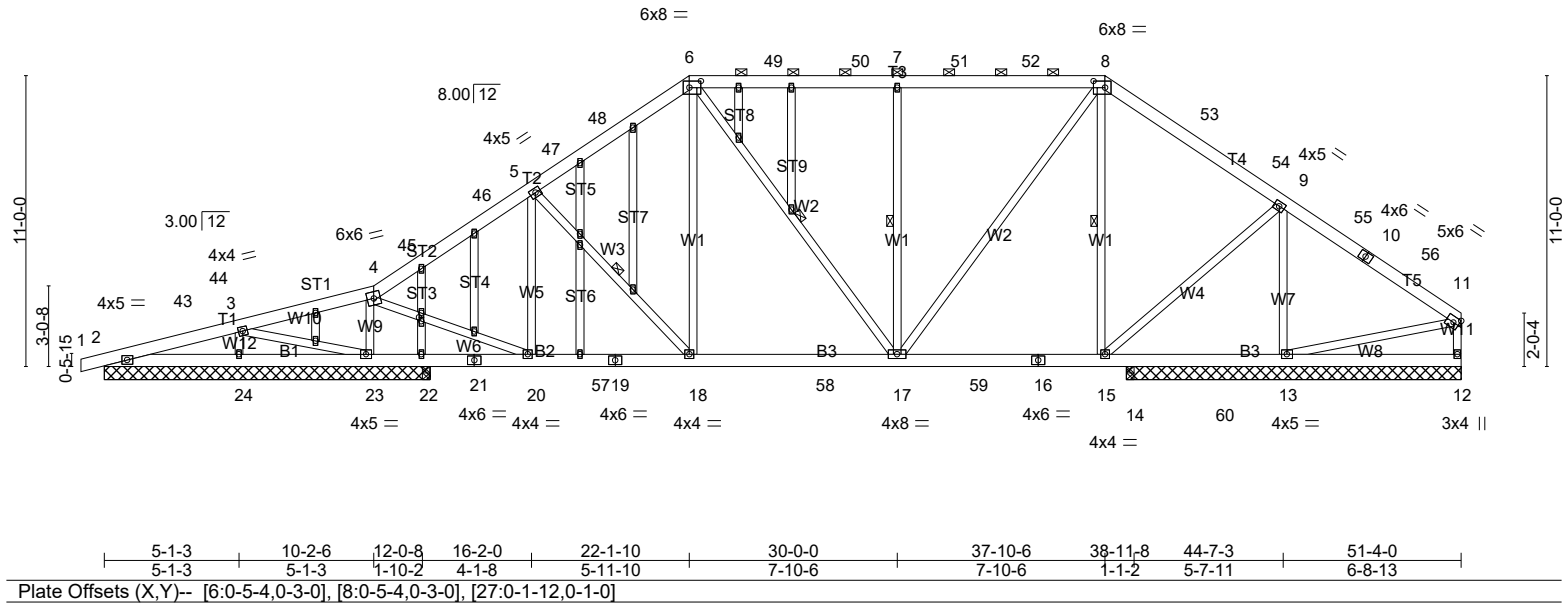
Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:09 2024 Page 1

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Scale = 1:87.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.43	Vert(LL) -0.08 15-17 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.83	Vert(CT) -0.13 15-17 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 12 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 456 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 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 (5-9-13 max.): 6-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-18, 6-17, 7-17, 8-15
OTHERS 2x4 SP No.3	

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

**REACTIONS.** All bearings 12-4-0 except (jt=length) 13=12-8-0, 12=12-8-0, 14=0-3-8.  
 (lb) - Max Horz 2=218(LC 15)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 24  
 Max Grav All reactions 250 lb or less at joint(s) 22, 22, 2 except 2=268(LC 46), 24=570(LC 46), 23=1576(LC 51), 13=1445(LC 51), 12=377(LC 55), 14=470(LC 50)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-4=-107/278, 4-45=-1406/232, 45-46=-1324/238, 5-46=-1230/260, 5-47=-1428/311, 47-48=-1390/327, 6-48=-1347/347, 6-49=-1325/350, 49-50=-1325/350, 7-50=-1325/350, 7-51=-1325/350, 51-52=-1325/350, 8-52=-1325/350, 8-53=-844/267, 53-54=-919/247, 9-54=-935/226, 11-56=-289/56, 11-12=-292/76  
 BOT CHORD 20-57=-124/1168, 19-57=-124/1168, 18-19=-124/1168, 18-58=-46/1169, 17-58=-46/1169, 17-59=-9/725, 16-59=-9/725, 15-16=-9/725  
 WEBS 3-24=-418/101, 4-23=-1511/305, 4-20=-155/1314, 5-20=-412/135, 6-18=-2/452, 6-17=-104/329, 7-17=-848/201, 8-17=-123/1004, 8-15=-721/136, 9-15=-6/803, 9-13=-1254/286

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 22-1-10, Exterior(2R) 22-1-10 to 25-1-10, Interior(1) 25-1-10 to 37-10-6, Exterior(2R) 37-10-6 to 40-10-6, Interior(1) 40-10-6 to 51-2-4 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - 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 15.4 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T09	GABLE I I	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:10 2024 Page 2  
 ID:BWc7aeysQn7rTKWqzgRUq8yA7du-K92PDXwZ6bz0Jdjpehz0A1uJgJYT0BKe5vklgTy7nh7

**NOTES-**

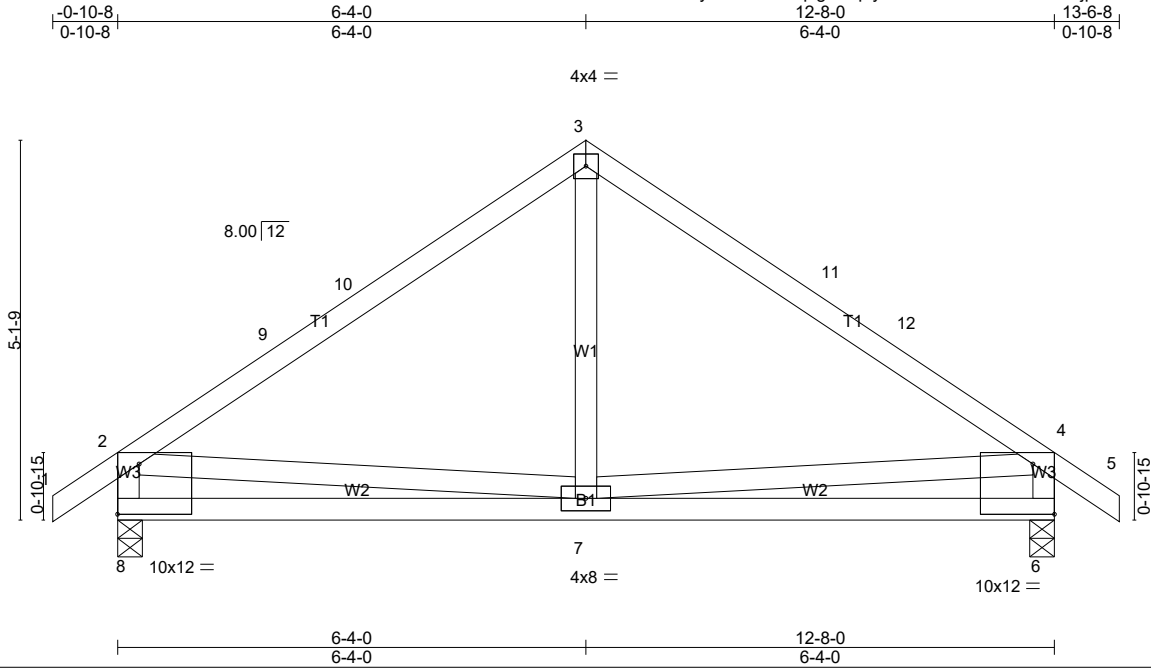
- 11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 24, 2.
- 13) This truss is designed in accordance with the 2018 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	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T10	Common	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:10 2024 Page 1  
 ID:BWc7aeysQn7rTKWqzgRUq8yA7du-K92PDxwZ6bz0Jdjpehz0A1uF1JZg0Mne5vklgTy7nh7



Scale = 1:31.1

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.84	Vert(LL)	-0.03	6-7	>999	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.35	Vert(CT)	-0.06	6-7	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Horz(CT)	0.01	6	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS					Weight: 71 lb	FT = 20%
BCDL 10.0	Code IRC2018/TPI2014							

**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) 8=490/0-4-0 (min. 0-1-8), 6=490/0-4-0 (min. 0-1-8)  
 Max Horz 8=-136(LC 14)  
 Max Uplift 8=-60(LC 16), 6=-60(LC 17)  
 Max Grav 8=556(LC 2), 6=556(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-9=-532/86, 9-10=-426/93, 3-10=-420/113, 3-11=-420/113, 11-12=-426/93, 4-12=-532/86,  
 2-8=-502/161, 4-6=-502/161  
 BOT CHORD 7-8=-202/409, 6-7=-150/372  
 WEBS 3-7=0/256

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-4-0, Exterior(2R) 6-4-0 to 9-4-0, Interior(1) 9-4-0 to 13-6-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 15.4 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) 8, 6.
  - This truss is designed in accordance with the 2018 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	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T11	Piggyback Base Structural Gable COMMON I I	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:12 2024 Page 1  
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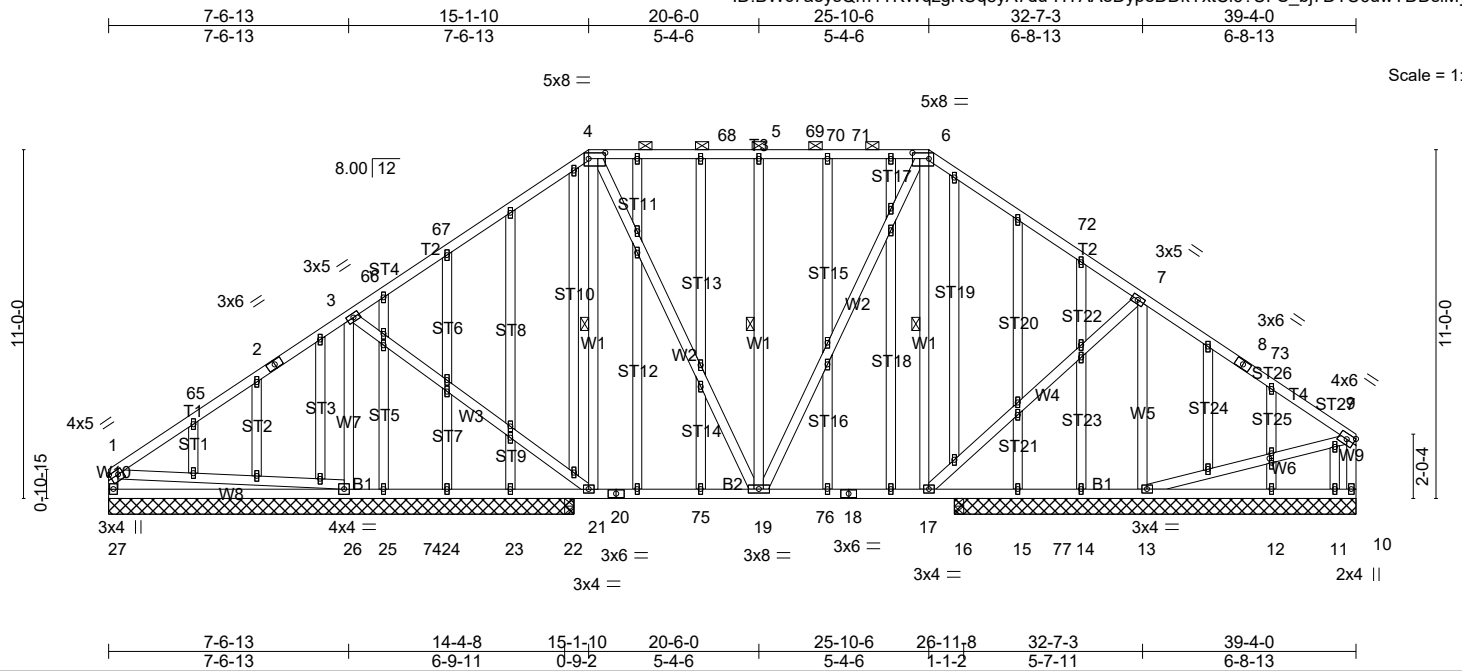


Plate Offsets (X,Y)-- [1:Edge,0-1-12], [4:0-6-4,0-2-4], [6:0-6-4,0-2-4], [63:0-1-10,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.82	Vert(LL) -0.07	26-27	>999	360	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.46	Vert(CT) -0.13	26-27	>663	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.76	Horz(CT) 0.01	10	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 446 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2 \*Except\*  
 T2: 2x4 SP No.1  
 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.): 4-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-21, 5-19, 6-17

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

**REACTIONS.** All bearings 12-8-0 except (jt=length) 27=14-8-0, 26=14-8-0, 23=14-8-0, 24=14-8-0, 25=14-8-0, 22=0-3-8, 16=0-3-8.  
 (lb) - Max Horz 27=273(LC 13)  
 Max Uplift All uplift 100 lb or less at joint(s) 27, 10, 23, 15, 11, 22, 16 except 26=-126(LC 16), 13=-190(LC 17), 25=-185(LC 7)  
 Max Grav All reactions 250 lb or less at joint(s) 23, 24, 15, 14, 12, 11, 16 except 27=355(LC 30), 26=1333(LC 48), 13=1123(LC 46), 10=308(LC 40), 22=365(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-65=-285/61, 3-66=-640/106, 66-67=-540/123, 4-67=-527/152, 4-68=-619/181, 68-69=-619/181, 5-69=-619/181, 5-70=-619/181, 70-71=-619/181, 6-71=-619/181, 6-72=-544/175, 7-72=-635/134, 1-27=-272/69, 9-10=-258/50  
 BOT CHORD 26-27=-262/464, 20-21=-117/470, 20-75=-117/470, 19-75=-117/470, 19-76=-67/448, 18-76=-67/448, 17-18=-67/448  
 WEBS 3-26=-976/227, 3-21=-37/440, 4-21=-418/67, 4-19=-112/418, 5-19=-574/158, 6-19=-106/383, 6-17=-363/92, 7-17=-57/512, 7-13=-1024/210

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-1-10, Exterior(2R) 15-1-10 to 19-4-9, Interior(1) 19-4-9 to 25-10-6, Exterior(2R) 25-10-6 to 30-1-5, Interior(1) 30-1-5 to 39-2-4 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - Unbalanced snow loads have been considered for this design.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 1.5x4 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	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T11	Piggyback Base Structural Gable COMMON I I	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:13 2024 Page 2  
 ID:BWc7aeysQn7rTKWqzgRUq8yA7du-lkkYrZySPWMbA5SOJpWjnfWmTXZiDZ74ntyPHoy7nh4

**NOTES-**

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 10, 23, 15, 11, 22, 16 except (jt=lb) 26=126, 13=190, 25=185.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T12	Piggyback Base	4	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:14 2024 Page 1

ID:BWc7aeySqn7rTKWqzgRUq8yA7du-DwIw3vz4AqUSoE0atW1yKt3\_9xoHy0dD?XizpEy7nh3

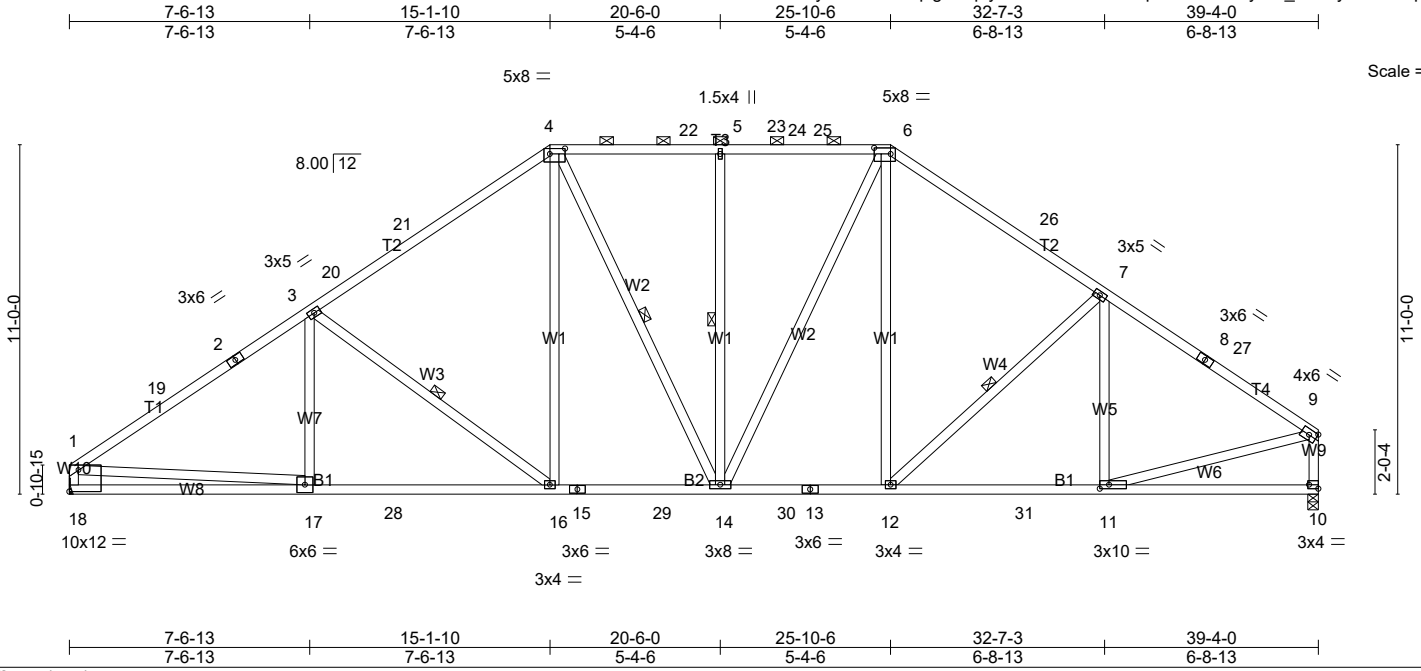


Plate Offsets (X,Y)--	[4:0-5-12,0-2-0], [6:0-6-4,0-2-4], [10:Edge,0-1-8], [11:0-3-8,0-1-8], [18:Edge,0-8-2]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.88	Vert(LL) -0.16 16-17 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.75	Vert(CT) -0.28 16-17 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.08 10 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 274 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP DSS *Except* T3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-10-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-7 max.): 4-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-16, 4-14, 5-14, 7-12

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

**REACTIONS.** (lb/size) 18=1433/Mechanical, 10=1438/0-4-0 (min. 0-2-3)  
 Max Horz 18=273(LC 13)  
 Max Uplift 18=-154(LC 16), 10=-142(LC 17)  
 Max Grav 18=1828(LC 46), 10=1865(LC 46)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-19=-2611/202, 2-19=-2535/203, 2-3=-2423/232, 3-20=-2091/216, 20-21=-1953/233,  
 4-21=-1916/262, 4-22=-1635/243, 22-23=-1635/243, 5-23=-1635/243, 5-24=-1635/243,  
 24-25=-1635/243, 6-25=-1635/243, 6-26=-1822/249, 7-26=-1980/209, 7-8=-1992/190,  
 8-27=-2110/166, 9-27=-2186/164, 1-18=-1709/192, 9-10=-1763/175  
 BOT CHORD 17-18=-261/551, 17-28=-242/2205, 16-28=-242/2205, 15-16=-98/1600, 15-29=-98/1600,  
 14-29=-98/1600, 14-30=-5/1519, 13-30=-5/1519, 12-13=-5/1519, 12-31=-92/1756,  
 11-31=-92/1756  
 WEBS 3-17=0/256, 3-16=-765/224, 4-16=-53/727, 4-14=-175/325, 5-14=-569/158, 6-14=-159/447,  
 6-12=-48/562, 7-12=-451/181, 7-11=-278/106, 1-17=-23/1803, 9-11=-61/1734

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-1-10, Exterior(2R) 15-1-10 to 19-4-9, Interior(1) 19-4-9 to 25-10-6, Exterior(2R) 25-10-6 to 30-1-5, Interior(1) 30-1-5 to 39-2-4 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - Unbalanced snow loads have been considered for this design.
  - 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.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=154, 10=142.
  - This truss is designed in accordance with the 2018 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	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T12	Piggyback Base	4	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:14 2024 Page 2  
ID:BWc7aeySqn7rTKWqzgRUq8yA7du-DwIw3vz4AqUSoE0atW1yKt3\_9xoHy0dD?XizpEy7nh3

**NOTES-**

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

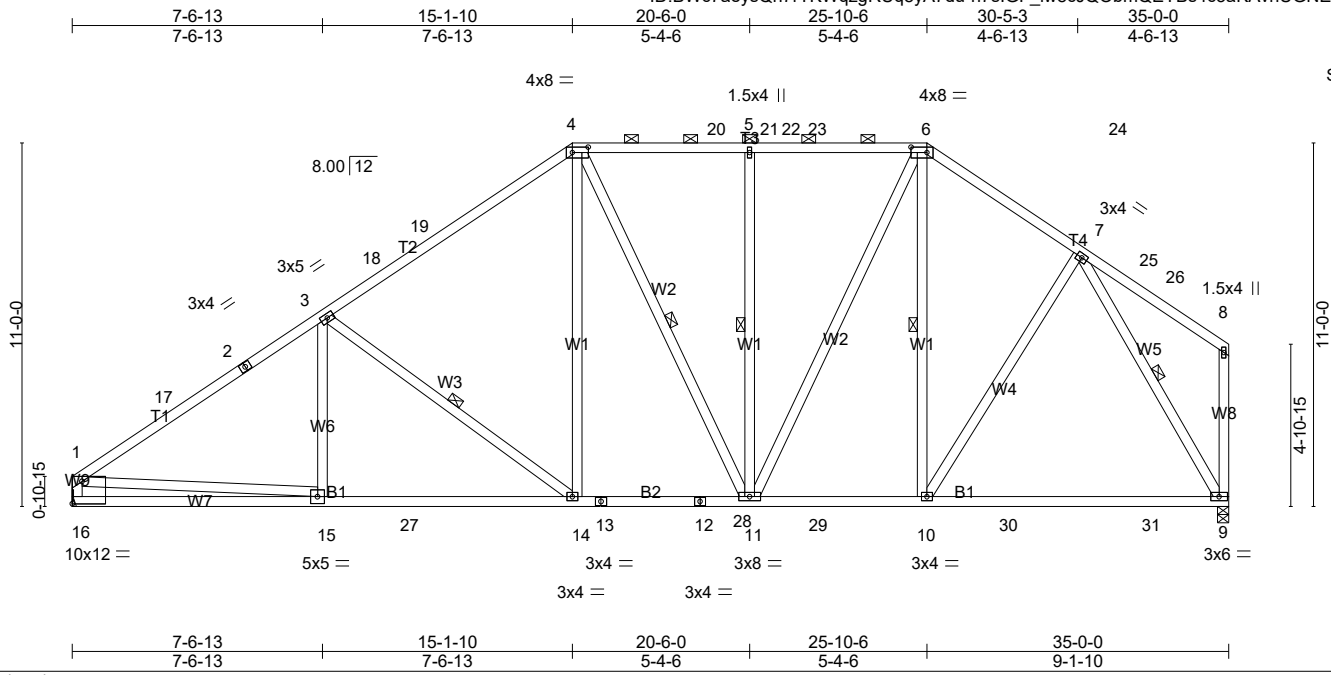
**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T13	Piggyback Base	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:15 2024 Page 1

ID:BWc7aeySqn7rTKWqzgrUuq8yA7du-h7slGF\_fw8cJQObmQEYBs4c3aKAvhUGNEBRWLgy7nh2



Scale = 1:69.7

Plate Offsets (X,Y)-- [4:0-5-12,0-2-0], [6:0-5-12,0-2-0], [16:Edge,0-8-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.98	Vert(LL) -0.30	9-10	>999	360	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.73	Vert(CT) -0.48	9-10	>860	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.66	Horz(CT) 0.05	9	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 258 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1 \*Except\*  
 T3,T4: 2x4 SP No.2  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-7-10 max.): 4-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-14, 4-11, 5-11, 6-10, 7-9

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

**REACTIONS.** (lb/size) 16=1273/Mechanical, 9=1292/0-4-0 (min. 0-2-0)  
 Max Horz 16=308(LC 13)  
 Max Uplift 16=-146(LC 16), 9=-115(LC 17)  
 Max Grav 16=1621(LC 46), 9=1716(LC 46)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-17=-2283/191, 2-17=-2208/192, 2-3=-2095/220, 3-18=-1744/204, 18-19=-1605/221,  
 4-19=-1569/249, 4-20=-1297/231, 20-21=-1297/231, 5-21=-1297/231, 5-22=-1297/231,  
 22-23=-1297/231, 6-23=-1297/231, 6-24=-1338/185, 7-24=-1355/154, 1-16=-1502/185  
 BOT CHORD 15-16=-300/541, 15-27=-241/1951, 14-27=-241/1951, 13-14=-153/1328, 13-28=-153/1328,  
 12-28=-153/1328, 11-12=-153/1328, 11-29=-81/1035, 10-29=-81/1035, 10-30=-107/827,  
 30-31=-107/827, 9-31=-107/827  
 WEBS 3-15=0/270, 3-14=-783/225, 4-14=-51/750, 4-11=-296/150, 5-11=-575/161, 6-11=-153/586,  
 7-10=-76/542, 1-15=-10/1543, 7-9=-1589/134

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) 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(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-1-10, Exterior(2R) 15-1-10 to 19-4-9, Interior(1) 19-4-9 to 25-10-6, Exterior(2R) 25-10-6 to 30-1-5, Interior(1) 30-1-5 to 34-10-4 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) Provide adequate drainage to prevent water ponding.
  - 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) except (jt=lb) 16=146, 9=115.
  - 10) This truss is designed in accordance with the 2018 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.

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T13	Piggyback Base	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:15 2024 Page 2  
ID:BWc7aeysQn7rTKWqzgrUq8yA7du-h7slGF\_1w8cJQObmQEYBs4c3aKAvhUGNEBRWLgy7nh2

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T14	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:16 2024 Page 1

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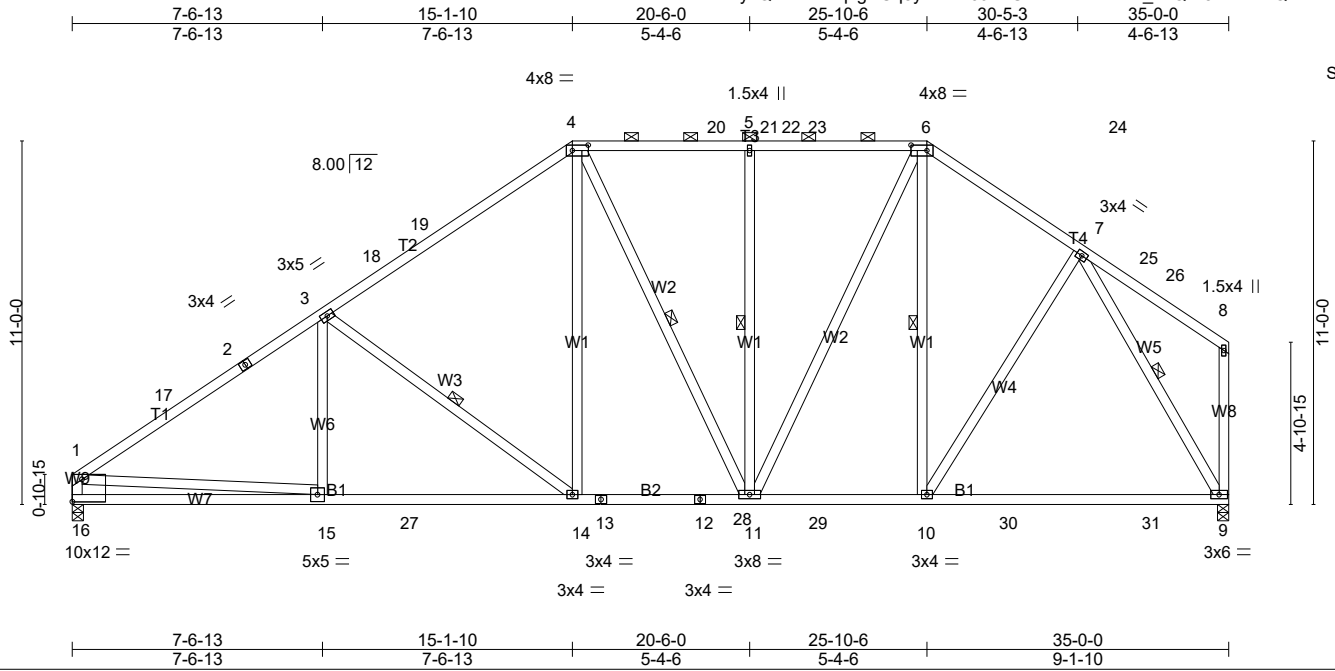


Plate Offsets (X,Y)-- [4:0-5-12,0-2-0], [6:0-5-12,0-2-0], [16:Edge,0-8-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.98	Vert(LL) -0.30	9-10	>999	360	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.73	Vert(CT) -0.48	9-10	>860	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.66	Horz(CT) 0.05	9	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS					Weight: 258 lb	FT = 20%
BCDL 10.0	Code IRC2018/TPI2014							

**LUMBER-**  
 TOP CHORD 2x4 SP No.1 \*Except\*  
 T3,T4: 2x4 SP No.2  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-7-10 max.): 4-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-14, 4-11, 5-11, 6-10, 7-9

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

**REACTIONS.** (lb/size) 16=1273/0-4-0 (min. 0-1-15), 9=1292/0-4-0 (min. 0-2-0)  
 Max Horz 16=308(LC 13)  
 Max Uplift 16=-146(LC 16), 9=-115(LC 17)  
 Max Grav 16=1621(LC 46), 9=1716(LC 46)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-17=-2283/191, 2-17=-2208/192, 2-3=-2095/220, 3-18=-1744/204, 18-19=-1605/221,  
 4-19=-1569/249, 4-20=-1297/231, 20-21=-1297/231, 5-21=-1297/231, 5-22=-1297/231,  
 22-23=-1297/231, 6-23=-1297/231, 6-24=-1338/185, 7-24=-1355/154, 1-16=-1502/185  
 BOT CHORD 15-16=-300/541, 15-27=-241/1951, 14-27=-241/1951, 13-14=-153/1328, 13-28=-153/1328,  
 12-28=-153/1328, 11-12=-153/1328, 11-29=-81/1035, 10-29=-81/1035, 10-30=-107/827,  
 30-31=-107/827, 9-31=-107/827  
 WEBS 3-15=0/270, 3-14=-783/225, 4-14=-51/750, 4-11=-296/150, 5-11=-575/161, 6-11=-153/586,  
 7-10=-76/542, 1-15=-10/1543, 7-9=-1589/134

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-1-10, Exterior(2R) 15-1-10 to 19-4-9, Interior(1) 19-4-9 to 25-10-6, Exterior(2R) 25-10-6 to 30-1-5, Interior(1) 30-1-5 to 34-10-4 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - Unbalanced snow loads have been considered for this design.
  - 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=16) 16=146, 9=115.
  - This truss is designed in accordance with the 2018 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	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T15	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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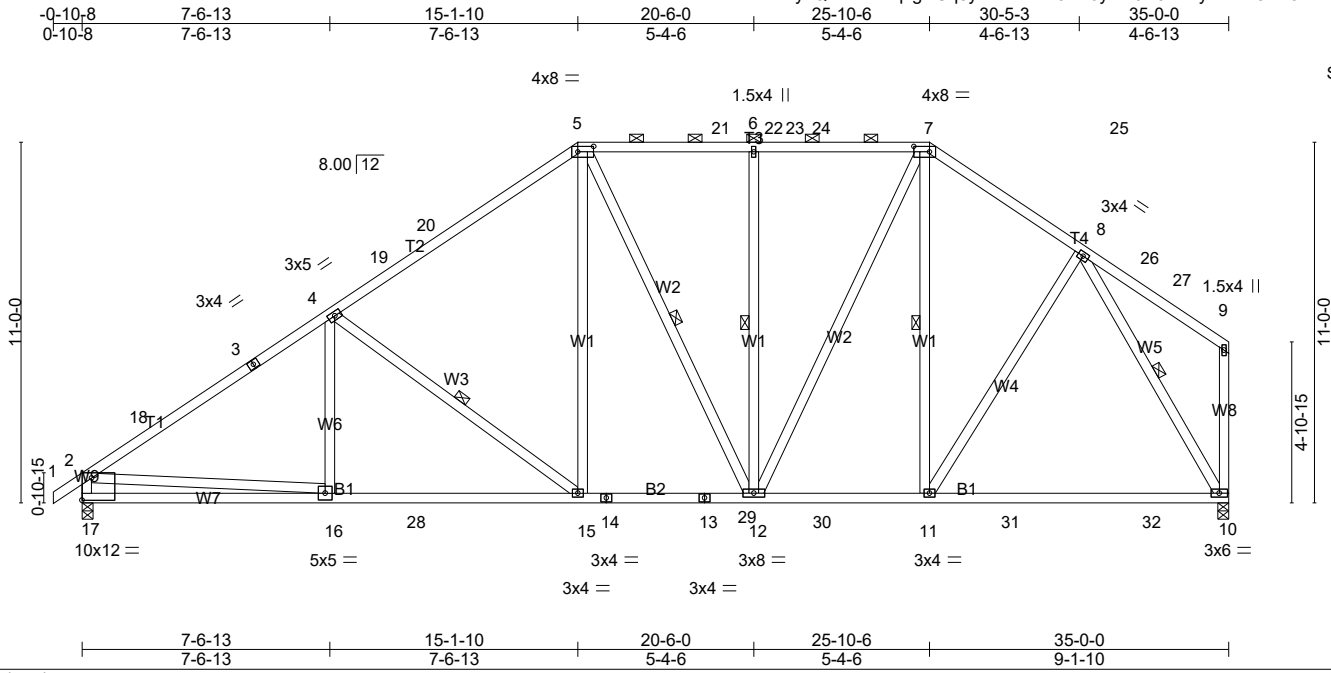


Plate Offsets (X,Y)-- [5:0-5-12,0-2-0], [7:0-5-12,0-2-0], [17:Edge,0-8-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.83	Vert(LL) -0.30	10-11	>999	360	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.73	Vert(CT) -0.48	10-11	>862	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.66	Horz(CT) 0.05	10	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 259 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP DSS *Except* T3,T4: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-10 max.): 5-7.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-15, 5-12, 6-12, 7-11, 8-10

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

**REACTIONS.** (lb/size) 17=1326/0-4-0 (min. 0-1-15), 10=1291/0-4-0 (min. 0-2-0)  
 Max Horz 17=319(LC 13)  
 Max Uplift 17=-166(LC 16), 10=-115(LC 17)  
 Max Grav 17=1666(LC 47), 10=1715(LC 47)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-18=-2283/186, 3-18=-2201/195, 3-4=-2095/222, 4-19=-1741/202, 19-20=-1603/220,  
 5-20=-1567/248, 5-21=-1296/230, 21-22=-1296/230, 6-22=-1296/230, 6-23=-1296/230,  
 23-24=-1296/230, 7-24=-1296/230, 7-25=-1338/185, 8-25=-1354/154, 2-17=-1547/205  
 BOT CHORD 16-17=-326/648, 16-28=-238/1944, 15-28=-238/1944, 14-15=-153/1326, 14-29=-153/1326,  
 13-29=-153/1326, 12-13=-153/1326, 12-30=-81/1035, 11-30=-81/1035, 11-31=-107/827,  
 31-32=-107/827, 10-32=-107/827  
 WEBS 4-16=0/275, 4-15=-777/222, 5-15=-49/746, 5-12=-294/149, 6-12=-573/161, 7-12=-153/585,  
 8-11=-76/542, 2-16=0/1463, 8-10=-1588/134

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-1-10, Exterior(2R) 15-1-10 to 19-4-9, Interior(1) 19-4-9 to 25-10-6, Exterior(2R) 25-10-6 to 30-1-5, Interior(1) 30-1-5 to 34-10-4 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - 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 15.4 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=166, 10=115.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T15	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:17 2024 Page 2  
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**NOTES-**

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	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T16	Piggyback Base	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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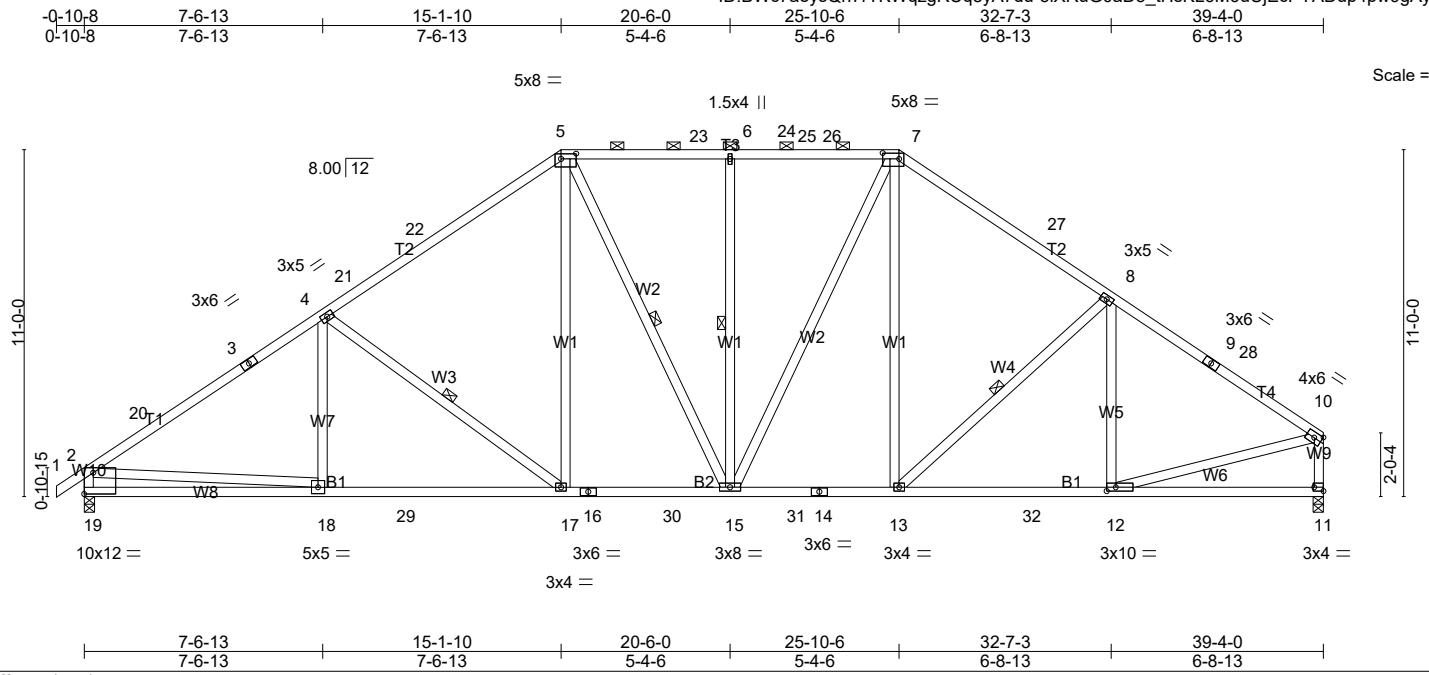


Plate Offsets (X,Y)-- [5:0-5-12,0-2-0], [7:0-6-4,0-2-4], [11:Edge,0-1-8], [12:0-3-8,0-1-8], [19:Edge,0-8-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.88	Vert(LL) -0.16 17-18 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.72	Vert(CT) -0.28 17-18 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.08 11 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 275 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-8-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-7 max.): 5-7.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-17, 5-15, 6-15, 8-13

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

**REACTIONS.** (lb/size) 19=1486/0-4-0 (min. 0-2-3), 11=1437/0-4-0 (min. 0-2-3)  
 Max Horz 19=283(LC 13)  
 Max Uplift 19=-174(LC 16), 11=-142(LC 17)  
 Max Grav 19=1872(LC 47), 11=1864(LC 47)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-20=-2610/197, 3-20=-2527/206, 3-4=-2422/233, 4-21=-2088/215, 21-22=-1950/232,  
 5-22=-1915/261, 5-23=-1634/243, 23-24=-1634/243, 6-24=-1634/243, 6-25=-1634/243,  
 25-26=-1634/243, 7-26=-1634/243, 7-27=-1821/249, 8-27=-1979/209, 8-9=-1992/190,  
 9-28=-2109/166, 10-28=-2185/164, 2-19=-1754/212, 10-11=-1763/175  
 BOT CHORD 18-19=-290/661, 18-29=-239/2198, 17-29=-239/2198, 16-17=-98/1599, 16-30=-98/1599,  
 15-30=-98/1599, 15-31=-5/1518, 14-31=-5/1518, 13-14=-5/1518, 13-32=-92/1755,  
 12-32=-92/1755  
 WEBS 4-18=0/261, 4-17=-757/221, 5-17=-517/22, 5-15=-175/325, 6-15=-569/158, 7-15=-159/447,  
 7-13=-48/562, 8-13=-452/181, 8-12=-278/106, 2-18=0/1722, 10-12=-61/1733

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-1-10, Exterior(2R) 15-1-10 to 19-4-9, Interior(1) 19-4-9 to 25-10-6, Exterior(2R) 25-10-6 to 30-1-5, Interior(1) 30-1-5 to 39-2-4 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - 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 15.4 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) 19=174, 11=142.

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T16	Piggyback Base	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:19 2024 Page 2  
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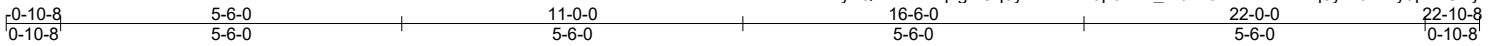
- NOTES-**
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	T17	Common	7	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:19 2024 Page 1  
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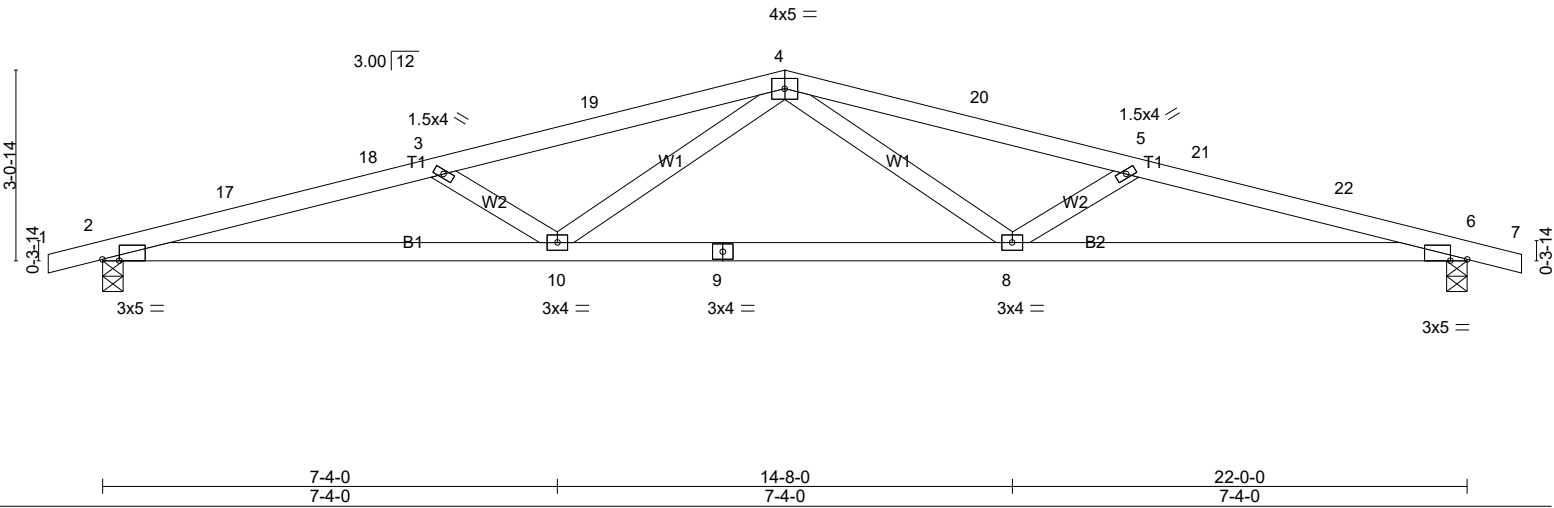


Plate Offsets (X,Y)-- [2:0-3-4,Edge], [6:0-3-4,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.85	Vert(LL) -0.17 8-10 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.30	Vert(CT) -0.38 8-10 >691 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.08 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 89 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 2-9-14 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 8-10-10 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=823/0-4-0 (min. 0-1-8), 6=823/0-4-0 (min. 0-1-8)  
 Max Horz 2=47(LC 20)  
 Max Uplift 2=-134(LC 12), 6=-134(LC 13)  
 Max Grav 2=933(LC 2), 6=933(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-17=-2759/476, 17-18=-2745/485, 3-18=-2710/487, 3-19=-2400/370, 4-19=-2357/379,  
 4-20=-2357/379, 5-20=-2400/370, 5-21=-2710/487, 21-22=-2745/485, 6-22=-2759/476  
 BOT CHORD 2-10=-432/2663, 9-10=-255/1747, 8-9=-255/1747, 6-8=-434/2663  
 WEBS 4-8=-42/719, 5-8=-508/196, 4-10=-42/719, 3-10=-508/196

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 22-10-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
  - 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 15.4 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) except (jt=lb) 2=134, 6=134.
  - This truss is designed in accordance with the 2018 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	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	TG01	ATTIC GIRDER	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:20 2024 Page 1

ID:BWc7aeySqn7rTKWqzgrUq8yA7du-24fBjy2rfgEbW9UkDn8MZ8J0Lq2MkW6OT9H0uy7ngz  
 -0-10-8 4-7-12 7-6-14 8-4-12 11-11-8 15-6-4 16-4-3 19-3-4 23-11-0 24-9-8  
 0-10-8 4-7-12 2-11-2 0-9-15 3-6-12 3-6-12 0-9-15 2-11-1 4-7-12 0-10-8

Scale = 1:69.1

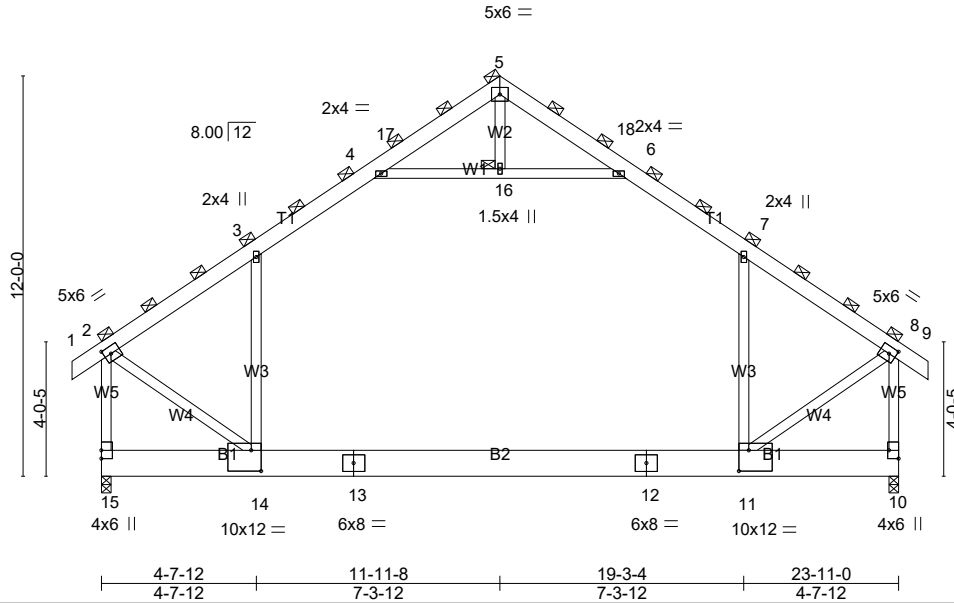


Plate Offsets (X,Y)-- [2:0-2-9,0-2-8], [8:0-2-9,0-2-8], [10:Edge,0-3-8], [11:0-3-8,0-7-8], [14:0-3-8,0-7-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	5-0-0	TC 0.63	Vert(LL)	-0.37	11-14	>758	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.92	Vert(CT)	-0.53	11-14	>535		
TCDL 10.0	Lumber DOL 1.15	WB 0.66	Horz(CT)	0.01	10	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Attic	-0.27	11-14	654		
BCDL 10.0	Code IRC2018/TPI2014					360	Weight: 447 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP 2400F 2.0E  
 BOT CHORD 2x10 SP No.1 \*Except\*  
 B2: 2x10 SP DSS  
 WEBS 2x4 SP No.3 \*Except\*  
 W3,W1: 2x4 SP No.2

**BRACING-**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals  
 (Switched from sheeted: Spacing > 2-0-0).  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 JOINTS 1 Brace at Jt(s): 5, 16, 2, 8

**REACTIONS.** (lb/size) 15=2748/0-3-8 (min. 0-2-4), 10=2748/0-3-8 (min. 0-2-4)  
 Max Horz 15=-799(LC 14)  
 Max Grav 15=3869(LC 31), 10=3869(LC 32)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-3511/0, 3-4=-2777/220, 4-17=-703/294, 5-17=-606/391, 5-18=-606/391,  
 6-18=-703/294, 6-7=-2776/220, 7-8=-3510/0, 2-15=-4477/0, 8-10=-4477/0  
 BOT CHORD 14-15=-749/726, 13-14=0/2751, 12-13=0/2751, 11-12=0/2751  
 WEBS 7-11=-574/1124, 3-14=-574/1124, 4-16=-2774/82, 6-16=-2774/82, 2-14=0/3380,  
 8-11=0/3381

**NOTES-**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x10 - 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-11-8, Exterior(2R) 11-11-8 to 14-11-8, Interior(1) 14-11-8 to 24-9-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 15.4 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.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-16, 6-16; Wall dead load (5.0psf) on member(s).7-11, 3-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 11-14
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	TG01	ATTIC GIRDER	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:20 2024 Page 2  
ID:BWc7aeysQn7rTKWqzgRUq8yA7du-24fBjy2rgEbW9UkDn8MZ8J0lLq2MkW6OT9H0uy7ngz

**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	TG02	Attic Girder	2	3	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:21 2024 Page 1

ID:BWc7aeysQn7rTKWqzgrUq8yA7du-WHDZX13TW\_MS8J3wnUfb6Lr9PI9L5BkFd7urYKy7ngy

0-10-8 4-7-12 7-6-14 8-4-12 11-11-8 15-6-4 16-4-3 19-3-4 23-11-0 24-9-8  
 0-10-8 4-7-12 2-11-2 0-9-15 3-6-12 3-6-12 0-9-15 2-11-1 4-7-12 0-10-8

Scale = 1:69.1

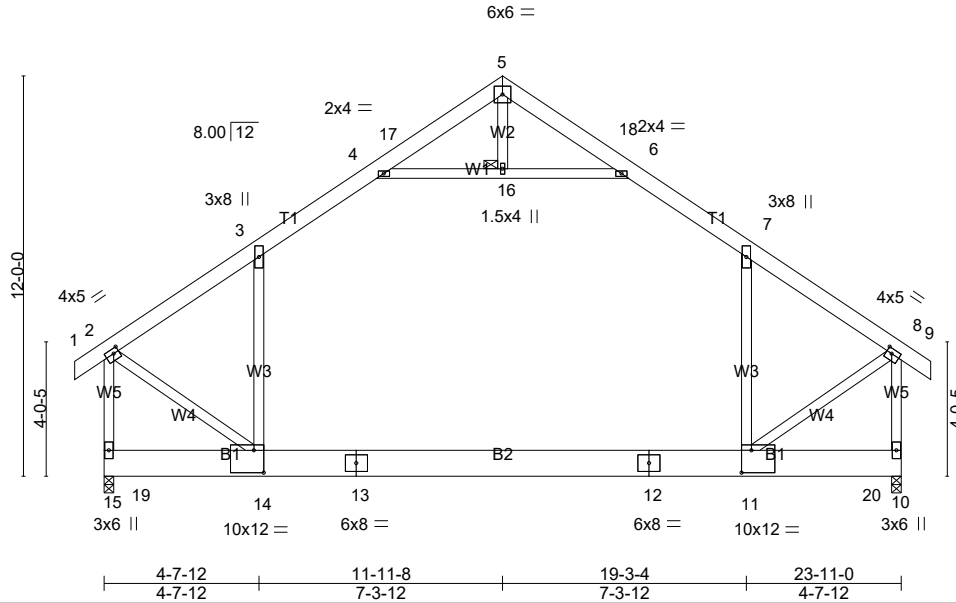


Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [8:0-2-0,0-1-12], [11:0-3-8,0-8-0], [14:0-3-8,0-8-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.76	Vert(LL) -0.42	11-14	>674	360	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.98	Vert(CT) -0.59	11-14	>480	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.66	Horz(CT) 0.01	10	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Attic -0.29	11-14	607	360		
BCDL 10.0	Code IRC2018/TPI2014						Weight: 670 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP 2400F 2.0E  
 BOT CHORD 2x10 SP No.1 \*Except\*  
 B2: 2x10 SP DSS  
 WEBS 2x4 SP No.3 \*Except\*  
 W3,W1: 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 JOINTS 1 Brace at Jt(s): 16

**REACTIONS.** (lb/size) 15=5162/0-3-8 (min. 0-2-14), 10=5162/0-3-8 (min. 0-2-14)  
 Max Horz 15=-320(LC 14)  
 Max Grav 15=7362(LC 31), 10=7362(LC 32)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-4615/0, 3-4=-2952/0, 4-17=0/1089, 5-17=0/1128, 5-18=0/1128, 6-18=0/1089,  
 6-7=-2952/0, 7-8=-4615/0, 2-15=-5770/0, 8-10=-5770/0  
 BOT CHORD 15-19=-262/328, 14-19=-262/328, 13-14=0/3401, 12-13=0/3401, 11-12=0/3401  
 WEBS 7-11=0/2844, 3-14=0/2844, 4-16=-4818/0, 6-16=-4818/0, 2-14=0/4151, 8-11=0/4151

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x10 - 4 rows staggered at 0-5-0 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-11-8, Exterior(2R) 11-11-8 to 14-11-8, Interior(1) 14-11-8 to 24-9-8 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf, Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 15.4 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.
  - Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-16, 6-16; Wall dead load (5.0psf) on member(s).7-11, 3-14
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 11-14
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	TG02	Attic Girder	2	3	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:21 2024 Page 2  
ID:BWc7aeysQn7rTKWqzqRUq8yA7du-WHDZXI3TW\_MS8J3wnUfb6Lr9PI9L5BkFd7urYKy7ngy

**NOTES-**

- 13) 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3000 lb down at 1-0-0, and 3000 lb down at 22-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Attic room checked for L/360 deflection.

**LOAD CASE(S) Standard**

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-51, 2-3=-51, 3-4=-61, 4-5=-51, 5-6=-51, 6-7=-61, 7-8=-51, 8-9=-51, 14-15=-110(F=-90), 11-14=-120(F=-90), 10-11=-110(F=-90), 4-6=-10  
Drag: 7-11=-10, 3-14=-10  
Concentrated Loads (lb)  
Vert: 19=-3000(F) 20=-3000(F)
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-3=-60, 3-4=-70, 4-5=-60, 5-6=-60, 6-7=-70, 7-8=-60, 8-9=-60, 14-15=-110(F=-90), 11-14=-120(F=-90), 10-11=-110(F=-90), 4-6=-10  
Drag: 7-11=-10, 3-14=-10  
Concentrated Loads (lb)  
Vert: 19=-3000(F) 20=-3000(F)
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-50, 2-3=-50, 3-4=-60, 4-5=-50, 5-6=-50, 6-7=-60, 7-8=-50, 8-9=-50, 14-15=-290(F=-270), 11-14=-360(F=-270), 10-11=-290(F=-270), 4-6=-10  
Drag: 7-11=-10, 3-14=-10  
Concentrated Loads (lb)  
Vert: 19=-2625(F) 20=-2625(F)
- 4) Dead + 0.75 Snow (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-43, 2-3=-43, 3-4=-53, 4-5=-43, 5-6=-43, 6-7=-53, 7-8=-43, 8-9=-43, 14-15=-290(F=-270), 11-14=-360(F=-270), 10-11=-290(F=-270), 4-6=-10  
Drag: 7-11=-10, 3-14=-10  
Concentrated Loads (lb)  
Vert: 19=-2625(F) 20=-2625(F)
- 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-43, 2-3=-43, 3-4=-53, 4-5=-68, 5-6=-27, 6-7=-37, 7-8=-27, 8-9=-27, 14-15=-290(F=-270), 11-14=-360(F=-270), 10-11=-290(F=-270), 4-6=-10  
Drag: 7-11=-10, 3-14=-10  
Concentrated Loads (lb)  
Vert: 19=-2625(F) 20=-2625(F)
- 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-27, 2-3=-27, 3-4=-37, 4-5=-27, 5-6=-68, 6-7=-53, 7-8=-43, 8-9=-43, 14-15=-290(F=-270), 11-14=-360(F=-270), 10-11=-290(F=-270), 4-6=-10  
Drag: 7-11=-10, 3-14=-10  
Concentrated Loads (lb)  
Vert: 19=-2625(F) 20=-2625(F)
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-3=-20, 3-4=-30, 4-5=-20, 5-6=-20, 6-7=-30, 7-8=-20, 8-9=-20, 14-15=-130(F=-90), 11-14=-120(F=-90), 10-11=-130(F=-90), 4-6=-10  
Drag: 7-11=-10, 3-14=-10  
Concentrated Loads (lb)  
Vert: 19=-1500(F) 20=-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=35, 2-3=17, 3-4=11, 4-5=17, 5-18=23, 6-18=17, 6-7=11, 7-8=17, 8-9=11, 14-15=-102(F=-90), 11-14=-108(F=-90), 10-11=-102(F=-90), 4-6=6  
Horz: 1-2=-47, 2-5=-29, 5-18=35, 8-18=29, 8-9=23, 2-15=24, 8-10=38  
Drag: 7-11=-10, 3-14=-10  
Concentrated Loads (lb)  
Vert: 19=-1500(F) 20=-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=11, 2-3=17, 3-4=11, 4-17=17, 5-17=23, 5-6=17, 6-7=11, 7-8=17, 8-9=35, 14-15=-102(F=-90), 11-14=-108(F=-90), 10-11=-102(F=-90), 4-6=6  
Horz: 1-2=-23, 2-17=-29, 5-17=-35, 5-8=29, 8-9=47, 2-15=-38, 8-10=-24  
Drag: 7-11=-10, 3-14=-10  
Concentrated Loads (lb)  
Vert: 19=-1500(F) 20=-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=-5, 2-3=-40, 3-4=-50, 4-5=-40, 5-6=-40, 6-7=-50, 7-8=-40, 8-9=-35, 14-15=-110(F=-90), 11-14=-120(F=-90), 10-11=-110(F=-90), 4-6=-10  
Horz: 1-2=-15, 2-5=20, 5-8=-20, 8-9=-15, 2-15=35, 8-10=27  
Drag: 7-11=-10, 3-14=-10  
Concentrated Loads (lb)  
Vert: 19=-1500(F) 20=-1500(F)
- 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	TG02	Attic Girder	2	3	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:21 2024 Page 3  
ID:BWc7aeysQn7rTKWqzGRUq8yA7du-WHDZX13TW\_MS8J3wnUfb6Lr9PI9L5BkFd7urYKy7ngy

**LOAD CASE(S) Standard**

Uniform Loads (plf)

Vert: 1-2=-35, 2-3=-40, 3-4=-50, 4-5=-40, 5-6=-40, 6-7=-50, 7-8=-40, 8-9=-5, 14-15=-110(F=-90), 11-14=-120(F=-90), 10-11=-110(F=-90), 4-6=-10

Horz: 1-2=15, 2-5=20, 5-8=-20, 8-9=15, 2-15=-27, 8-10=-35

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-1500(F) 20=-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=-2, 2-3=-15, 3-4=-21, 4-5=-15, 5-6=9, 6-7=3, 7-8=9, 8-9=4, 14-15=-102(F=-90), 11-14=-108(F=-90), 10-11=-102(F=-90), 4-6=-6

Horz: 1-2=-10, 2-5=3, 5-8=21, 8-9=16, 2-15=15, 8-10=19

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-1500(F) 20=-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=4, 2-3=9, 3-4=3, 4-5=9, 5-6=-15, 6-7=-21, 7-8=-15, 8-9=-2, 14-15=-102(F=-90), 11-14=-108(F=-90), 10-11=-102(F=-90), 4-6=-6

Horz: 1-2=-16, 2-5=-21, 5-8=-3, 8-9=10, 2-15=-19, 8-10=-15

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-1500(F) 20=-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=-28, 2-3=-33, 3-4=-43, 4-5=-33, 5-6=-10, 6-7=-20, 7-8=-10, 8-9=-4, 14-15=-110(F=-90), 11-14=-120(F=-90), 10-11=-110(F=-90), 4-6=-10

Horz: 1-2=8, 2-5=13, 5-8=10, 8-9=16, 2-15=26, 8-10=9

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-1500(F) 20=-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=-4, 2-3=-10, 3-4=-20, 4-5=-10, 5-6=-33, 6-7=-43, 7-8=-33, 8-9=-28, 14-15=-110(F=-90), 11-14=-120(F=-90), 10-11=-110(F=-90), 4-6=-10

Horz: 1-2=-16, 2-5=-10, 5-8=-13, 8-9=-8, 2-15=-9, 8-10=-26

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-1500(F) 20=-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=19, 2-3=25, 3-4=19, 4-5=25, 5-6=9, 6-7=3, 7-8=9, 8-9=4, 14-15=-102(F=-90), 11-14=-108(F=-90), 10-11=-102(F=-90), 4-6=-6

Horz: 1-2=-31, 2-5=-37, 5-8=21, 8-9=16, 2-15=13, 8-10=18

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-1500(F) 20=-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=4, 2-3=9, 3-4=3, 4-5=9, 5-6=25, 6-7=19, 7-8=25, 8-9=19, 14-15=-102(F=-90), 11-14=-108(F=-90), 10-11=-102(F=-90), 4-6=-6

Horz: 1-2=-16, 2-5=-21, 5-8=37, 8-9=31, 2-15=-18, 8-10=-13

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-1500(F) 20=-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=8, 2-3=14, 3-4=8, 4-5=14, 5-6=4, 6-7=-2, 7-8=4, 8-9=-1, 14-15=-102(F=-90), 11-14=-108(F=-90), 10-11=-102(F=-90), 4-6=-6

Horz: 1-2=-20, 2-5=-26, 5-8=16, 8-9=11, 2-15=6, 8-10=14

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-1500(F) 20=-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=-1, 2-3=4, 3-4=-2, 4-5=4, 5-6=14, 6-7=8, 7-8=14, 8-9=8, 14-15=-102(F=-90), 11-14=-108(F=-90), 10-11=-102(F=-90), 4-6=-6

Horz: 1-2=-11, 2-5=-16, 5-8=26, 8-9=20, 2-15=-14, 8-10=-6

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-1500(F) 20=-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=11, 2-3=6, 3-4=-4, 4-5=6, 5-6=-10, 6-7=-20, 7-8=-10, 8-9=-4, 14-15=-110(F=-90), 11-14=-120(F=-90), 10-11=-110(F=-90), 4-6=-10

Horz: 1-2=-31, 2-5=-26, 5-8=10, 8-9=16, 2-15=23, 8-10=7

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-1500(F) 20=-1500(F)

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

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	TG02	Attic Girder	2	3	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:21 2024 Page 4  
ID:BWc7aeysQn7rTKWqzgRUq8yA7du-WHDZXI3TW\_MS8J3wnUfb6Lr9Pi9L5BkFd7urYKy7ngy

**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-2=-4, 2-3=-10, 3-4=-20, 4-5=-10, 5-6=6, 6-7=-4, 7-8=6, 8-9=11, 14-15=-110(F=-90), 11-14=-120(F=-90), 10-11=-110(F=-90), 4-6=-10

Horz: 1-2=-16, 2-5=-10, 5-8=26, 8-9=31, 2-15=-7, 8-10=-23

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-1500(F) 20=-1500(F)

22) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-5=-20, 5-8=-20, 8-9=-51, 14-15=-110(F=-90), 11-14=-120(F=-90), 10-11=-110(F=-90)

Concentrated Loads (lb)

Vert: 19=-3000(F) 20=-3000(F)

23) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-2=-20, 2-3=-20, 3-4=-30, 4-5=-20, 5-6=-20, 6-7=-30, 7-8=-20, 8-9=-20, 14-15=-350(F=-330), 11-14=-440(F=-330), 10-11=-350(F=-330), 4-6=-10

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-1500(F) 20=-1500(F)

24) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-3=-51, 3-4=-61, 4-5=-84, 5-6=-29, 6-7=-39, 7-8=-29, 8-9=-29, 14-15=-110(F=-90), 11-14=-120(F=-90), 10-11=-110(F=-90), 4-6=-10

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-3000(F) 20=-3000(F)

25) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-29, 2-3=-29, 3-4=-39, 4-5=-29, 5-6=-84, 6-7=-61, 7-8=-51, 8-9=-51, 14-15=-110(F=-90), 11-14=-120(F=-90), 10-11=-110(F=-90), 4-6=-10

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-3000(F) 20=-3000(F)

26) Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-2=-20, 2-3=-20, 3-4=-30, 4-5=-20, 5-6=-20, 6-7=-30, 7-8=-20, 8-9=-20, 14-15=-350(F=-330), 11-14=-440(F=-330), 10-11=-350(F=-330), 4-6=-10

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-1500(F) 20=-1500(F)

27) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-49, 2-3=-53, 3-4=-63, 4-5=-53, 5-6=-35, 6-7=-45, 7-8=-35, 8-9=-31, 14-15=-290(F=-270), 11-14=-360(F=-270), 10-11=-290(F=-270), 4-6=-10

Horz: 1-2=6, 2-5=10, 5-8=8, 8-9=12, 2-15=19, 8-10=7

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-2625(F) 20=-2625(F)

28) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-31, 2-3=-35, 3-4=-45, 4-5=-35, 5-6=-53, 6-7=-63, 7-8=-53, 8-9=-49, 14-15=-290(F=-270), 11-14=-360(F=-270), 10-11=-290(F=-270), 4-6=-10

Horz: 1-2=12, 2-5=8, 5-8=-10, 8-9=-6, 2-15=-7, 8-10=-19

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-2625(F) 20=-2625(F)

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

Uniform Loads (plf)

Vert: 1-2=-20, 2-3=-24, 3-4=-34, 4-5=-24, 5-6=-35, 6-7=-45, 7-8=-35, 8-9=-31, 14-15=-290(F=-270), 11-14=-360(F=-270), 10-11=-290(F=-270), 4-6=-10

Horz: 1-2=-24, 2-5=-20, 5-8=8, 8-9=12, 2-15=17, 8-10=6

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-2625(F) 20=-2625(F)

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

Uniform Loads (plf)

Vert: 1-2=-31, 2-3=-35, 3-4=-45, 4-5=-35, 5-6=-24, 6-7=-34, 7-8=-24, 8-9=-20, 14-15=-290(F=-270), 11-14=-360(F=-270), 10-11=-290(F=-270), 4-6=-10

Horz: 1-2=12, 2-5=8, 5-8=20, 8-9=24, 2-15=-6, 8-10=-17

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-2625(F) 20=-2625(F)

31) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-56, 2-3=-60, 3-4=-70, 4-5=-60, 5-6=-42, 6-7=-52, 7-8=-42, 8-9=-38, 14-15=-290(F=-270), 11-14=-360(F=-270), 10-11=-290(F=-270), 4-6=-10

Horz: 1-2=6, 2-5=10, 5-8=8, 8-9=12, 2-15=19, 8-10=7

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-2625(F) 20=-2625(F)

32) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	TG02	Attic Girder	2	3	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:21 2024 Page 5  
ID:BWc7aeysQn7rTKWqzqRUq8yA7du-WHDZXI3TW\_MS8J3wnUfb6Lr9PI9L5BkFd7urYKy7ngy

**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-2=-38, 2-3=-42, 3-4=-52, 4-5=-42, 5-6=-60, 6-7=-70, 7-8=-60, 8-9=-56, 14-15=-290(F=-270), 11-14=-360(F=-270), 10-11=-290(F=-270), 4-6=-10

Horz: 1-2=-12, 2-5=-8, 5-8=-10, 8-9=-6, 2-15=-7, 8-10=-19

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-2625(F) 20=-2625(F)

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

Uniform Loads (plf)

Vert: 1-2=-26, 2-3=-30, 3-4=-40, 4-5=-30, 5-6=-42, 6-7=-52, 7-8=-42, 8-9=-38, 14-15=-290(F=-270), 11-14=-360(F=-270), 10-11=-290(F=-270), 4-6=-10

Horz: 1-2=-24, 2-5=-20, 5-8=8, 8-9=12, 2-15=17, 8-10=6

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-2625(F) 20=-2625(F)

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

Uniform Loads (plf)

Vert: 1-2=-38, 2-3=-42, 3-4=-52, 4-5=-42, 5-6=-30, 6-7=-40, 7-8=-30, 8-9=-26, 14-15=-290(F=-270), 11-14=-360(F=-270), 10-11=-290(F=-270), 4-6=-10

Horz: 1-2=-12, 2-5=-8, 5-8=20, 8-9=24, 2-15=-6, 8-10=-17

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-2625(F) 20=-2625(F)

35) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-3=-28, 3-4=-34, 4-5=-28, 5-6=-28, 6-7=-34, 7-8=-28, 8-9=-28, 14-15=-102(F=-90), 11-14=-108(F=-90), 10-11=-102(F=-90), 4-6=-6

Horz: 1-2=-16, 2-5=16, 5-8=-16, 8-9=-16, 2-15=16, 8-10=16

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-1500(F) 20=-1500(F)

36) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-5=4, 5-8=4, 8-9=4, 14-15=-102(F=-90), 11-14=-108(F=-90), 10-11=-102(F=-90)

Horz: 1-2=-16, 2-5=-16, 5-8=16, 8-9=16, 2-15=16, 8-10=16

Concentrated Loads (lb)

Vert: 19=-1500(F) 20=-1500(F)

37) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-70, 4-5=-60, 5-6=-20, 6-7=-30, 7-8=-20, 8-9=-20, 14-15=-110(F=-90), 11-14=-120(F=-90), 10-11=-110(F=-90), 4-6=-10

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-3000(F) 20=-3000(F)

38) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-3=-20, 3-4=-30, 4-5=-20, 5-6=-60, 6-7=-70, 7-8=-60, 8-9=-60, 14-15=-110(F=-90), 11-14=-120(F=-90), 10-11=-110(F=-90), 4-6=-10

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-3000(F) 20=-3000(F)

39) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-50, 2-3=-50, 3-4=-60, 4-5=-50, 5-6=-20, 6-7=-30, 7-8=-20, 8-9=-20, 14-15=-290(F=-270), 11-14=-360(F=-270), 10-11=-290(F=-270), 4-6=-10

Drag: 7-11=-10, 3-14=-10

Concentrated Loads (lb)

Vert: 19=-2625(F) 20=-2625(F)

40) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-3=-20, 3-4=-30, 4-5=-20, 5-6=-50, 6-7=-60, 7-8=-50, 8-9=-50, 14-15=-290(F=-270), 11-14=-360(F=-270), 10-11=-290(F=-270), 4-6=-10

Drag: 7-11=-10, 3-14=-10

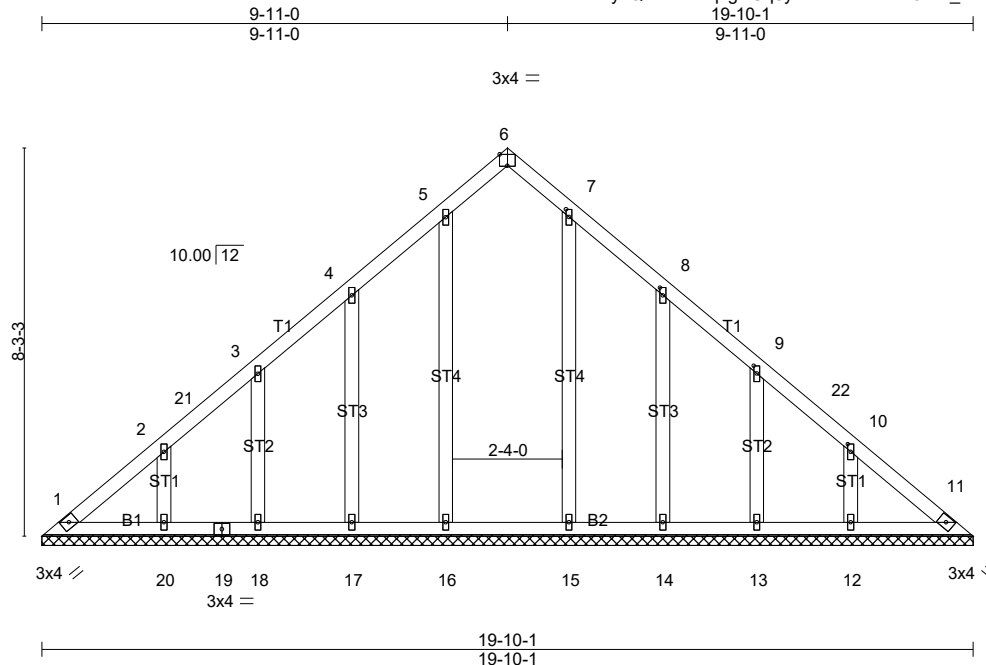
Concentrated Loads (lb)

Vert: 19=-2625(F) 20=-2625(F)

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	V01	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:21 2024 Page 1  
 ID:BWc7aeysQn7rTKWqzgRUq8yA7du-WHDZXI3TW\_MS8J3wnUfb6LrJGI0o5JiFd7urYKy7ngy



Scale = 1:49.1

Plate Offsets (X,Y)-- [6:0-2-0,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) 20.0	2-0-0	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.15	Horz(CT)	0.01	11	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 116 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 19-10-1.  
 (lb) - Max Horz 1=-186(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 16, 17, 18, 20, 15, 14, 13, 12  
 Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 17, 18, 20, 15, 14, 13, 12

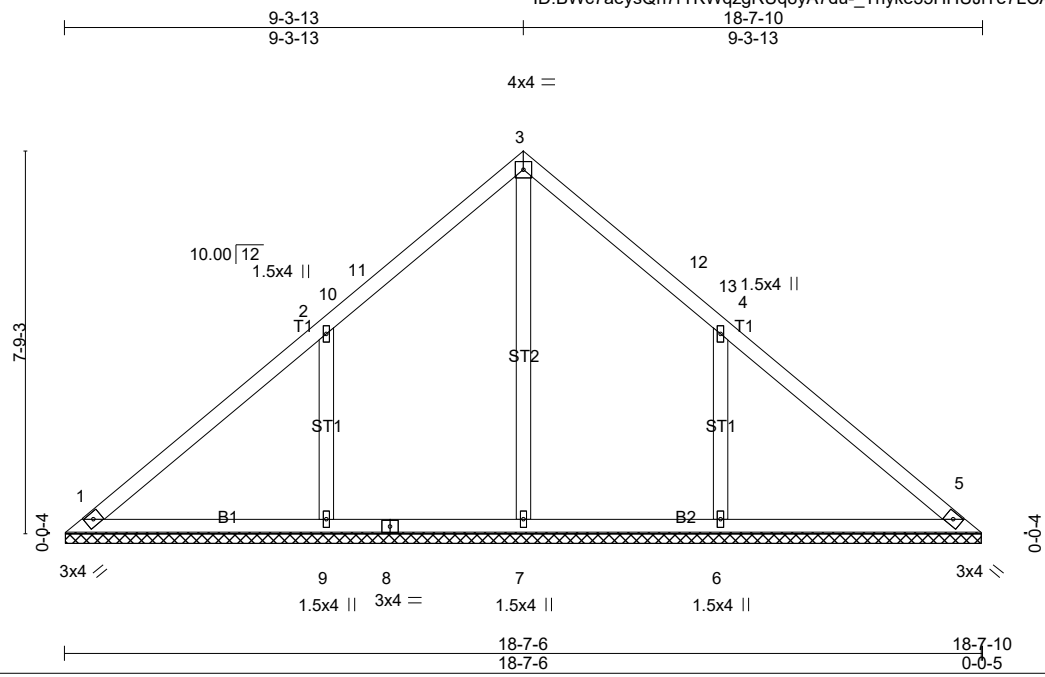
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-276/131, 10-11=-270/128

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-4-13 to 3-4-13, Exterior(2N) 3-4-13 to 9-11-0, Corner(3R) 9-11-0 to 12-11-0, Exterior(2N) 12-11-0 to 19-5-3 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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.
  - 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 16, 17, 18, 20, 15, 14, 13, 12.
  - This truss is designed in accordance with the 2018 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	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	V02	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541  
 ID: BWc7aeySqn7rTKWqzgRUq8yA7du\_Tnyke35HHUJITe7LCAqZORE9haqmmPrneO4my7ngx  
 8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:22 2024 Page 1



Scale = 1:46.8

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.22	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.16	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 IRC2018/TPI2014			Weight: 84 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 18-7-1.  
 (lb) - Max Horz 1=174(LC 13)  
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-212(LC 16), 6=-212(LC 17)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=335(LC 32), 9=581(LC 29), 6=581(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-9=-358/262, 4-6=-357/261

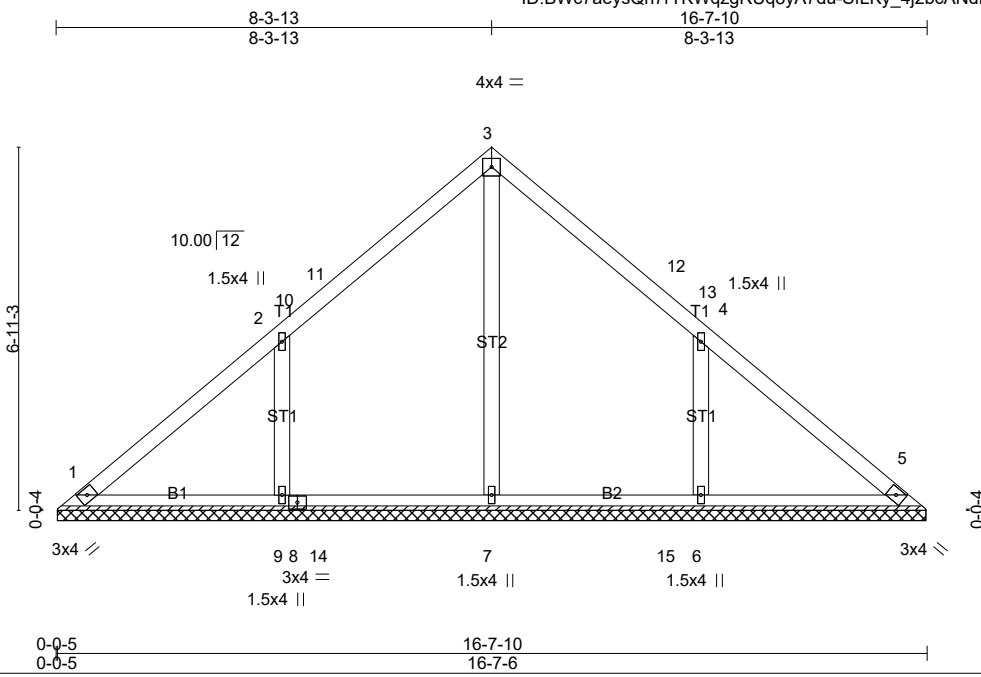
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 9-3-13, Exterior(2R) 9-3-13 to 12-3-13, Interior(1) 12-3-13 to 18-2-13 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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=212, 6=212.
  - This truss is designed in accordance with the 2018 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	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	V03	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541  
 ID: BWC7aeysQn7rTKWqzgRUq8yA7du-SfLKy\_4j2bcANdDjvvi3BmxcZ2gZEXY4QNxcDy7ngw  
 8.720 s Mar 20 2024 MiTek Industries, Inc. Wed Dec 18 09:29:23 2024 Page 1



Scale = 1:44.0

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.16	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.13	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/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 16-7-1.  
 (lb) - Max Horz 1=-155(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-185(LC 16), 6=-185(LC 17)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=349(LC 32), 9=494(LC 29), 6=494(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-9=-312/230, 4-6=-312/230

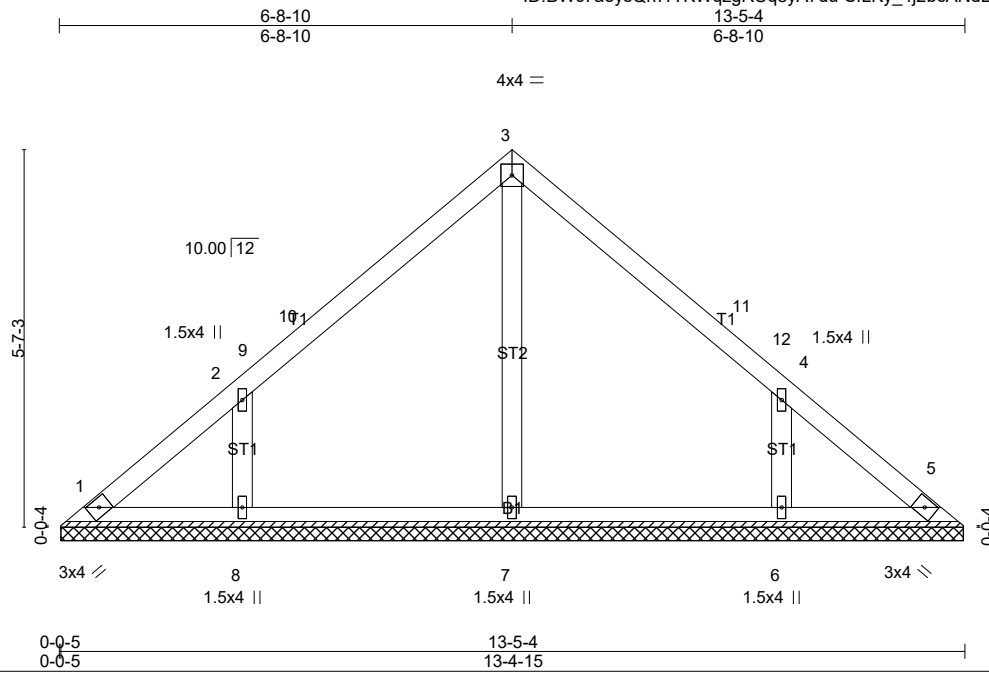
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 8-3-13, Exterior(2R) 8-3-13 to 11-3-13, Interior(1) 11-3-13 to 16-2-13 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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=185, 6=185.
  - This truss is designed in accordance with the 2018 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	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	V04	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:34.2

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	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 IRC2018/TPI2014			Weight: 57 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 13-4-10.  
(lb) - Max Horz 1=-124(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-154(LC 16), 6=-154(LC 17)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=352(LC 22), 6=352(LC 23)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-8=-286/198, 4-6=-286/198

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) 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(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 6-8-10, Exterior(2R) 6-8-10 to 9-8-10, Interior(1) 9-8-10 to 13-0-7 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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=154, 6=154.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

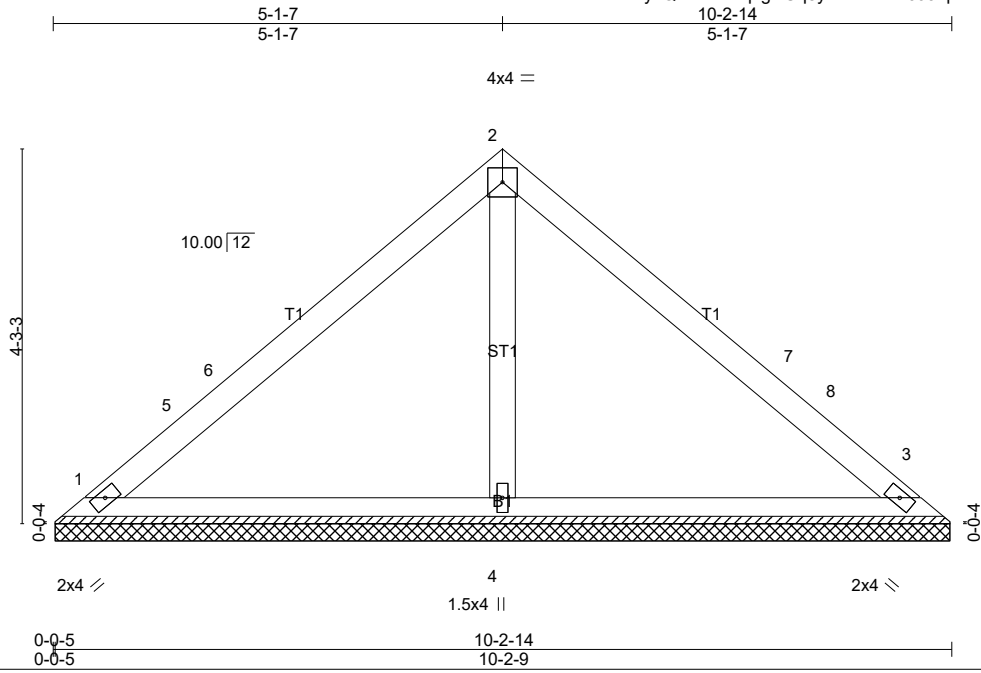
**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	V05	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:26.2

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.22	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-S	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 39 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=175/10-2-4 (min. 0-1-8), 3=175/10-2-4 (min. 0-1-8), 4=318/10-2-4 (min. 0-1-8)  
Max Horz 1=92(LC 15)  
Max Uplift 1=-28(LC 17), 3=-40(LC 17)  
Max Grav 1=224(LC 22), 3=224(LC 23), 4=355(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 7-16; Vult=130mph (3-second gust) 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(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-1-7, Exterior(2R) 5-1-7 to 8-1-7, Interior(1) 8-1-7 to 9-10-0 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

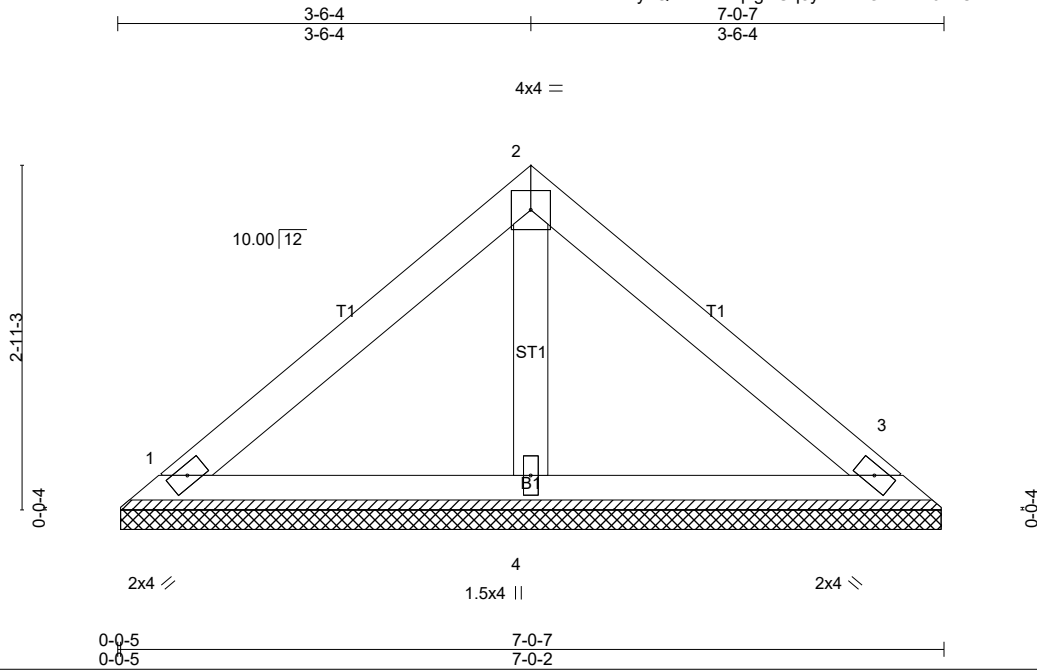
**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	V06	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:19.6

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.10	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 IRC2018/TPI2014			Weight: 26 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=125/6-11-14 (min. 0-1-8), 3=125/6-11-14 (min. 0-1-8), 4=192/6-11-14 (min. 0-1-8)  
 Max Horz 1=61(LC 13)  
 Max Uplift 1=-26(LC 17), 3=-34(LC 17)  
 Max Grav 1=172(LC 22), 3=172(LC 23), 4=213(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 7-16; Vult=130mph (3-second gust) 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(2E) 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf, Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

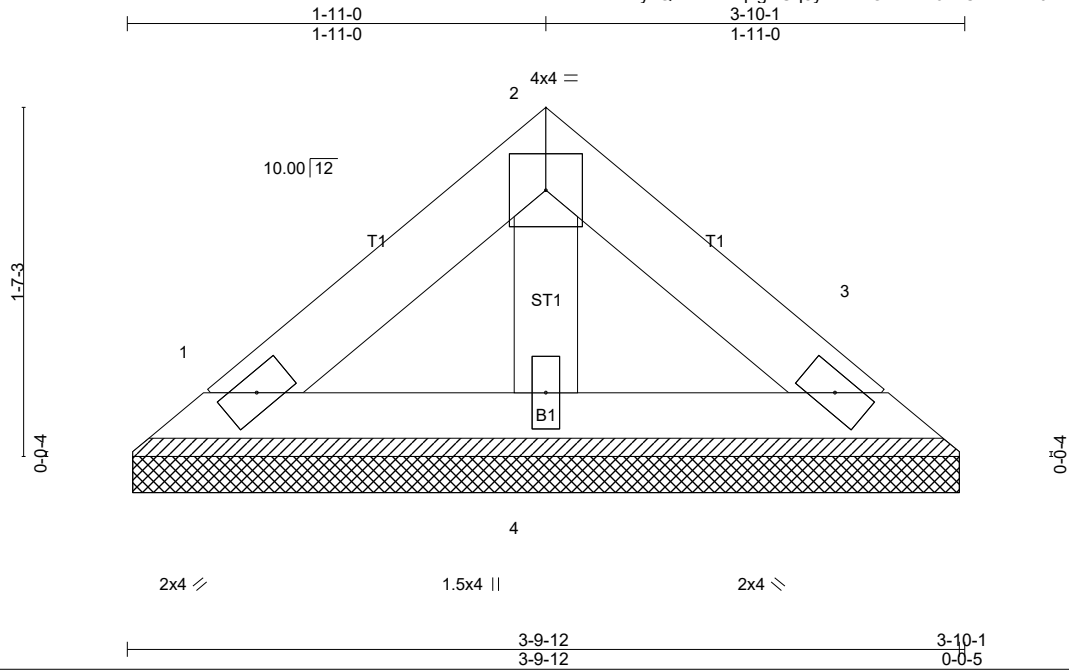
**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	V07	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:10.6

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.05	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.01	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 IRC2018/TPI2014			Weight: 13 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 3-10-1 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=61/3-9-7 (min. 0-1-8), 3=61/3-9-7 (min. 0-1-8), 4=93/3-9-7 (min. 0-1-8)  
 Max Horz 1=-30(LC 12)  
 Max Uplift 1=-13(LC 17), 3=-17(LC 17)  
 Max Grav 1=76(LC 22), 3=76(LC 23), 4=103(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

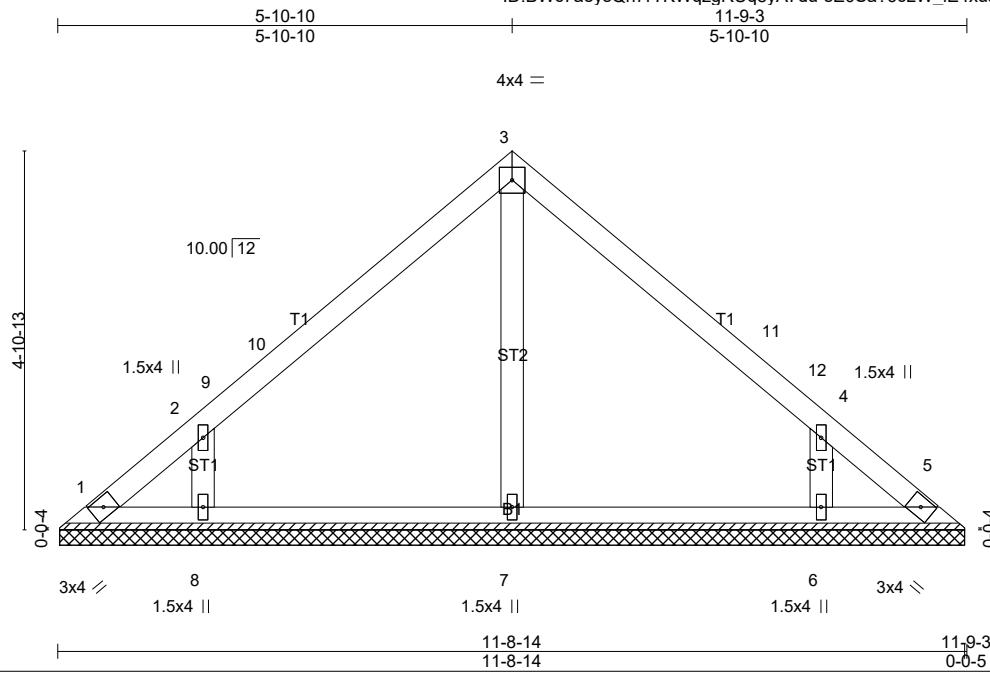
**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	V08	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	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-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/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  
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 11-8-10.  
(lb) - Max Horz 1=-107(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-151(LC 16), 6=-151(LC 17)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=358(LC 22), 6=358(LC 23)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-8=-302/222, 4-6=-302/222

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) 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(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-10-10, Exterior(2R) 5-10-10 to 8-10-10, Interior(1) 8-10-10 to 11-4-6 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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=151, 6=151.
  - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

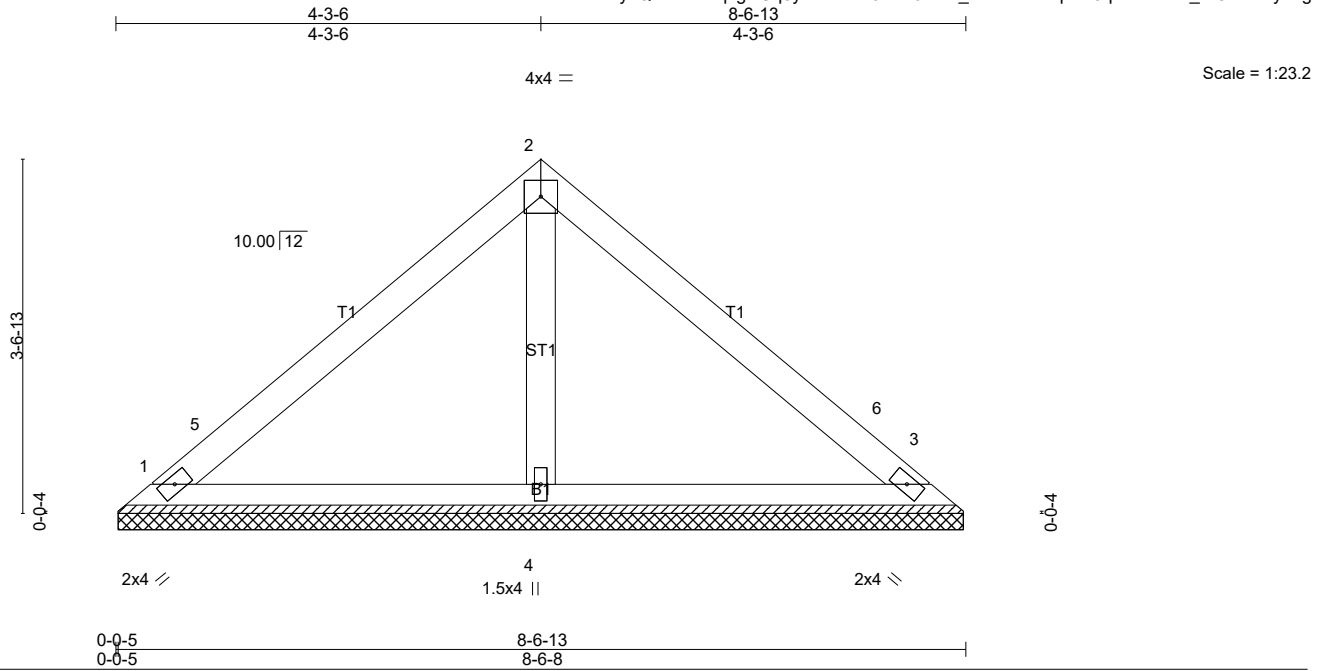
**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	V09	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.15	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 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 32 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD  
 BOT CHORD

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

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

**REACTIONS.** (lb/size) 1=155/8-6-3 (min. 0-1-8), 3=155/8-6-3 (min. 0-1-8), 4=239/8-6-3 (min. 0-1-8)  
 Max Horz 1=-76(LC 12)  
 Max Uplift 1=-33(LC 17), 3=-42(LC 17)  
 Max Grav 1=200(LC 22), 3=200(LC 23), 4=265(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-3-6, Exterior(2R) 4-3-6 to 7-3-6, Interior(1) 7-3-6 to 8-1-15 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

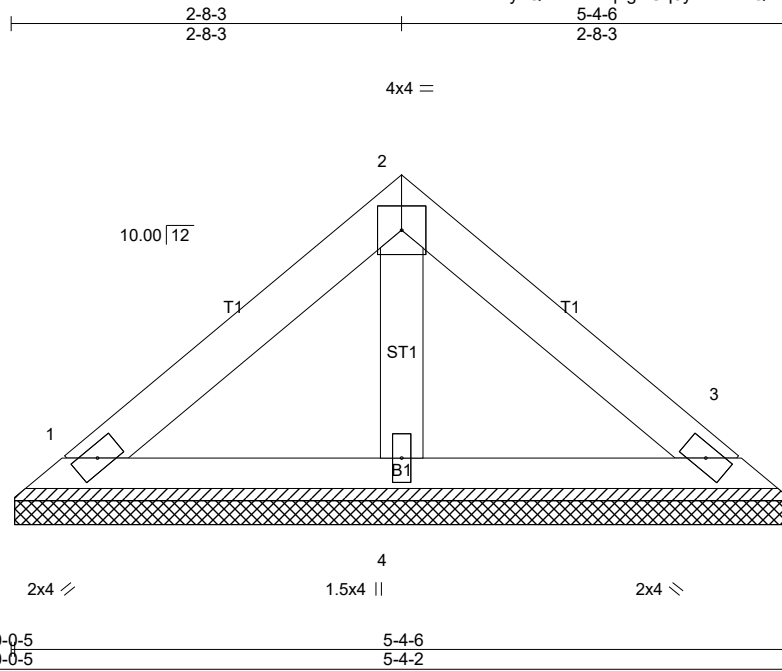
**LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	ALAN MEZA-OLD MILL RD ROOF
24-6852-A	V10	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:15.8

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof) 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.05	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 IRC2018/TPI2014			Weight: 19 lb	FT = 20%

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

**BRACING-**  
TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 5-4-6 oc purlins.  
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 1=91/5-3-13 (min. 0-1-8), 3=91/5-3-13 (min. 0-1-8), 4=140/5-3-13 (min. 0-1-8)  
Max Horz 1=-45(LC 12)  
Max Uplift 1=-19(LC 17), 3=-25(LC 17)  
Max Grav 1=120(LC 22), 3=120(LC 23), 4=156(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf, Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard