

Trenco 818 Soundside Rd Edenton, NC 27932

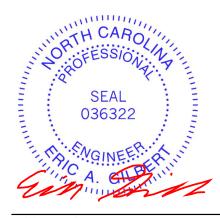
Re: 25-3404-B CLB-LOT #2 Roof

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Riverside Roof Truss.

Pages or sheets covered by this seal: I74047206 thru I74047238

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



June 9,2025

Gilbert, Eric

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job Truss Truss Type Qty CLB-LOT #2 Roof 174047206 25-3404-B CJ01 DIAGONAL HIP GIRDER 2 Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:04 2025 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541, ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-7wbZ1R55ZI4s80cD5Ck7wZRzQYAUSib3fE4qNZz86qj 5-7-2 5-7-2 1-3-9 Scale = 1:16.6 3 3.54 12 NAILED NAILED 8 3x6 = 2 1-0-0 6 NAILED NAILED 4x4 = 52x4 || LOADING (psf) SPACING-2-0-0 DEFL. L/d **PLATES GRIP** CSI. (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL Vert(LL) -0.01 240 244/190 1.15 TC 0.55 6-7 >999 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.15 Vert(CT) -0.02 6-7 >999 180 TCDI 10.0 WB 0.02 Horz(CT)

LUMBER-

TOP CHORD 2x4 SP No.2 2x6 SP No.2 **BOT CHORD** 

2x4 SP No.3 \*Except\* WEBS

2-7: 2x6 SP No.2

0.0

10.0

BRACING-

Matrix-MF

TOP CHORD Structural wood sheathing directly applied or 5-7-2 oc purlins,

6

n/a

n/a

except end verticals.

-0.00

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-5-5, 6=Mechanical

Max Horz 7=83(LC 9)

Max Uplift 7=-86(LC 12), 6=-33(LC 12) Max Grav 7=311(LC 2), 6=220(LC 17)

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

Rep Stress Incr

Code IRC2018/TPI2014

TOP CHORD 2-7=-260/94

### NOTES-

**BCLL** 

**BCDL** 

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.

NO

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 7 and 33 lb uplift at
- 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.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-2=-43, 2-3=-43, 3-4=-43, 5-7=-20



Weight: 35 lb

FT = 20%

June 9,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply CLB-LOT #2 Roof 174047207 25-3404-B HG01 HIP GIRDER | **L** | Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:05 2025 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541,

4-0-0

ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-b68yEn6jKcCjlABPfvFMTnzE4xW5B62CuuqNv0z86qi 12-0-0

4-0-0

11-9-12

Structural wood sheathing directly applied or 6-0-0 oc purlins,

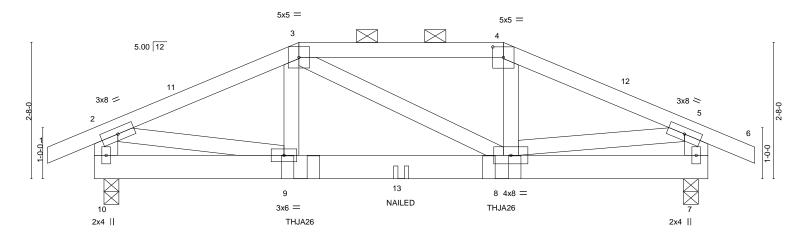
except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:22.5

0-11-0

12-0<sub>r</sub>0



0-2-4	3-9-12	4-0-0	I		3-9-12	0 <sup>l</sup> -2- <sup>l</sup> 4			
Plate Offsets (X,Y) [4:0-2-8,0-2-7]									
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 16.5/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	TC 0.17 BC 0.19	DEFL.         in           Vert(LL)         -0.01           Vert(CT)         -0.02           Horz(CT)         0.00	8-9 >	/defl L/d -999 240 -999 180 n/a n/a		<b>GRIP</b> 244/190 FT = 20%		

**BOT CHORD** 

8-0-0

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 \*Except\* **WEBS** 

0-2-4

0-11-0

2-10,5-7: 2x6 SP No.2

(size) 10=0-3-8, 7=0-3-8 Max Horz 10=49(LC 57)

Max Uplift 10=-162(LC 12), 7=-160(LC 12) Max Grav 10=910(LC 35), 7=901(LC 35)

4-0-0

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1229/221, 3-4=-1092/214, 4-5=-1224/220, 2-10=-860/179, 5-7=-849/177

4-0-0

BOT CHORD 8-9=-173/1079

**WEBS** 3-9=-49/285, 4-8=-55/310, 2-9=-163/956, 5-8=-162/943

REACTIONS.

1) 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, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=16.5 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 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

6) Unbalanced snow loads have been considered for this design.

7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.

8) Provide adequate drainage to prevent water ponding.

- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 10 and 160 lb uplift
- 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.

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

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



minim

June 9,2025

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Riverside Roof Truss, LLC,

Danville, Va - 24541,

| **Z** | Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:05 2025 Page 2 ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-b68yEn6jKcCjlABPfvFMTnzE4xW5B62CuuqNv0z86qi

14) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 4-0-6 from the left end to connect truss(es) to front face of bottom chord.

- 15) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 7-11-10 from the left end to connect truss(es) to front face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

### LOAD CASE(S) Standard

1) Dead + Snow (balanced): 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, 7-10=-20

Concentrated Loads (lb)

Vert: 9=-316(F) 8=-316(F) 13=-124(F)





818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply CLB-LOT #2 Roof 174047208 25-3404-B J01 Jack-Open

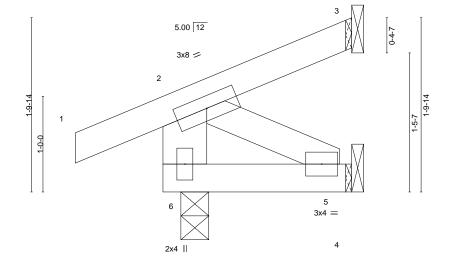
Riverside Roof Truss, LLC,

Danville, Va - 24541,

Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:05 2025 Page 1 ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-b68yEn6jKcCjlABPfvFMTnzFNxYbB9gCuuqNv0z86qi



Scale: 1"=1



	0-2-4 0-2-4	1-11-11 1-9-7			
2.0.0	CCI	DEEL	:a (laa)	1/4.41	1 /4

BRACING-

TOP CHORD

**BOT CHORD** 

TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 *	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES           Code IRC2018/TPI2014	CSI. TC 0.09 BC 0.03 WB 0.03 Matrix-MP	Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 -0.00	(loc) 6 5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP						

Weight: 11 lb FT = 20%

**GRIP** 244/190

**PLATES** 

MT20

Structural wood sheathing directly applied or 1-11-11 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

LUMBER-TOP CHORD **BOT CHORD** 

REACTIONS.

WEBS

2x4 SP No.2 2x4 SP No.2 2x6 SP No.2 \*Except\*

2-5: 2x4 SP No.3

(size) 3=Mechanical, 4=Mechanical, 6=0-3-8

Max Horz 6=60(LC 16)

Max Uplift 3=-8(LC 13), 4=-13(LC 16), 6=-28(LC 16) Max Grav 3=29(LC 21), 4=35(LC 7), 6=161(LC 21)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 3, 13 lb uplift at joint 4 and 28 lb uplift at joint 6.
- 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.



June 9,2025



Job Truss Truss Type Qty Ply CLB-LOT #2 Roof 174047209 25-3404-B M01 MONOPITCH 3 Job Reference (optional)

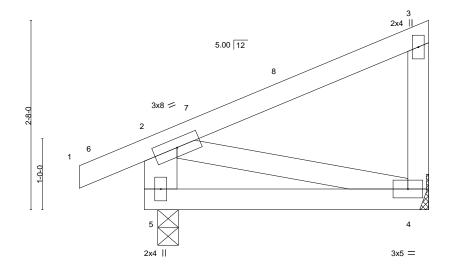
Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:06 2025 Page 1 ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-4JiKS77L4wLaNKmcDcmb?\_WO\_LstwceL7YZxRSz86qh

4-0-0 0-11-0 4-0-0

Scale = 1:16.2



			9-2-4		4-0-0			4
			0-2-4	•	3-9-12			<u> </u>
LOADING (psf) TCLL (roof)	20.0	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d

Plate Grip DOL 1.15 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 TCDI 10.0 Rep Stress Incr YES **BCLL** 0.0 Code IRC2018/TPI2014 **BCDL** 10.0

TC 0.22 ВС 0.16 WB 0.05 Matrix-MF

BRACING-

TOP CHORD

**BOT CHORD** 

4-5 Vert(LL) >999 240 -0.01 Vert(CT) -0.02 4-5 >999 180 Horz(CT) -0.00 4 n/a n/a

except end verticals.

**PLATES** MT20

Structural wood sheathing directly applied or 4-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

**GRIP** 244/190

Weight: 23 lb FT = 20%

LUMBER-TOP CHORD

REACTIONS.

WEBS

2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 \*Except\*

2-5: 2x6 SP No.2

(size) 5=0-3-8, 4=Mechanical

Max Horz 5=86(LC 15)

Max Uplift 5=-43(LC 16), 4=-19(LC 13) Max Grav 5=229(LC 21), 4=144(LC 21)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; B=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 3-10-4 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=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 5 and 19 lb uplift at joint 4.
- 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty CLB-LOT #2 Roof 174047210 COMMON 25-3404-B T01 2 Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:07 2025 Page 1 ID:tdHS5IWyLng?jaR9E1eBtqyIy9\_-YVGifT7\_rDTR?TLonKlqYC3Url5jfr1VLCJUzuz86qg 41-8-0 33-4-0 50-0-0 50-11-0 0-11-0 -0-11-0 0-11-0

8-4-0

8-4-0

39-7-6

1 Row at midpt

2 Rows at 1/3 pts

8-4-0

Scale = 1:84.0

8-4-0

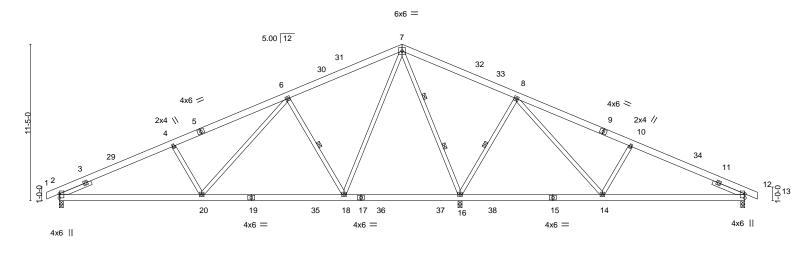
50-0-0

Structural wood sheathing directly applied or 5-5-2 oc purlins.

7-16

8-16, 6-18

Rigid ceiling directly applied or 6-0-0 oc bracing.



10-4-10 10-4-10 10-4-10 10-4-10 LOADING (psf) SPACING-2-0-0 DEFL. I/defI L/d **PLATES** GRIP CSI. (loc) TCLL (roof) 20.0 1.15 Vert(LL) -0.14 18-20 240 244/190 Plate Grip DOL TC 0.47 >999 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.56 Vert(CT) -0.25 18-20 >999 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.93 Horz(CT) 0.03 16 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MS Weight: 354 lb FT = 20% **BCDL** 10.0

BRACING-

**WEBS** 

TOP CHORD

**BOT CHORD** 

29-2-12

LUMBER-

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 2x4 SP No.3 WEBS

8-4-0

8-4-0

**SLIDER** Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0

REACTIONS.

(size) 2=0-3-8, 16=0-3-8, 12=0-3-8

Max Horz 2=190(LC 15)

10-4-10

Max Uplift 2=-89(LC 16), 16=-146(LC 16), 12=-64(LC 16) Max Grav 2=1167(LC 28), 16=2839(LC 30), 12=695(LC 29)

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

TOP CHORD 2-4=-1764/183, 4-6=-1638/205, 6-7=-562/200, 7-8=0/846, 8-10=-628/135,

10-12=-772/114

BOT CHORD 2-20=-75/1742, 18-20=0/936, 14-16=-333/95, 12-14=-7/713

WEBS 7-16=-1838/142, 8-16=-966/214, 8-14=-32/1055, 10-14=-467/168, 7-18=-80/1305,

6-18=-931/212, 6-20=-26/960, 4-20=-415/164

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior(1) 4-1-0 to 25-0-0, Exterior(2R) 25-0-0 to 30-0-0, Interior(1) 30-0-0 to 50-11-0 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.

20-9-4

- 6) All plates are 4x4 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 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 89 lb uplift at joint 2, 146 lb uplift at joint 16 and 64 lb uplift at joint 12.
- 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.



June 9,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty CLB-LOT #2 Roof 174047211 COMMON 25-3404-B T01A 2 Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:07 2025 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541, ID:tdHS5IWyLng?jaR9E1eBtqyIy9\_-YVGifT7\_rDTR?TLonKlqYC3Uol5ifr4VLCJUzuz86qg 33-4-0 41-8-0 49-9-0 -0-11-0 0-11-0

8-4-0

8-4-0

Structural wood sheathing directly applied or 5-5-0 oc purlins.

7-15

6-17, 8-15

Rigid ceiling directly applied or 6-0-0 oc bracing.

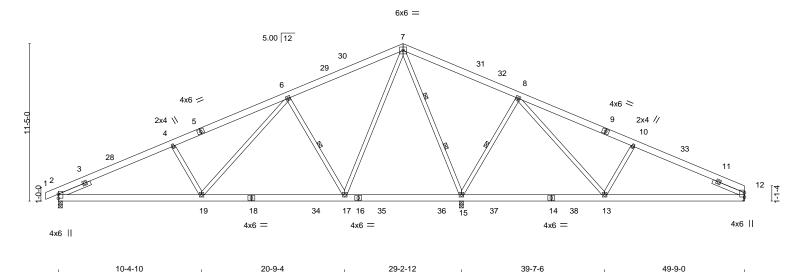
1 Row at midpt

2 Rows at 1/3 pts

8-4-0

Scale = 1:83.5

8-1-0



10-4-10 10-4-10 10-1-10 LOADING (psf) SPACING-2-0-0 DEFL. L/d **PLATES** GRIP CSI. (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL Vert(LL) -0.14 17-19 240 244/190 1.15 TC 0.48 >999 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.57 Vert(CT) -0.25 17-19 >999 180 TCDI 10.0 Rep Stress Incr YES WB 0.93 Horz(CT) 0.03 15 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MS Weight: 351 lb FT = 20% **BCDL** 10.0

BRACING-

**WEBS** 

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 2x4 SP No.3 WEBS

8-4-0

8-4-0

**SLIDER** Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0

REACTIONS.

(size) 2=0-3-8, 15=0-3-8, 12=Mechanical

Max Horz 2=188(LC 15)

Max Uplift 2=-88(LC 16), 15=-150(LC 16), 12=-32(LC 16) Max Grav 2=1168(LC 28), 15=2834(LC 30), 12=633(LC 29)

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

TOP CHORD  $2-4=-1768/181,\ 4-6=-1641/203,\ 6-7=-566/198,\ 7-8=0/840,\ 8-10=-604/137,$ 

10-12=-742/116

BOT CHORD 2-19=-96/1740, 17-19=-16/934, 13-15=-328/79, 12-13=-33/685 WEBS

7-17=-79/1303, 6-17=-931/212, 6-19=-26/960, 7-15=-1832/144, 4-19=-415/164,

8-15=-959/214, 8-13=-37/1032, 10-13=-455/172

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 4-0-11, Interior(1) 4-0-11 to 25-0-0, Exterior(2R) 25-0-0 to 29-11-11, Interior(1) 29-11-11 to 49-9-0 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 4x4 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 2, 150 lb uplift at joint 15 and 32 lb uplift at joint 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

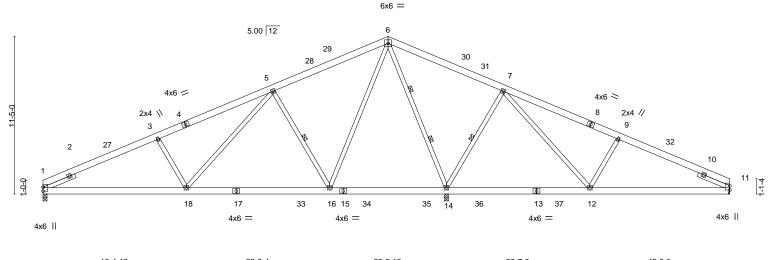
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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Job Truss Truss Type Qty CLB-LOT #2 Roof 174047212 25-3404-B T01B COMMON Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:08 2025 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541, ID:tdHS5IWyLng?jaR9E1eBtqyIy9\_-0hq4sp8ccXblcdw\_K1p35PbfZ9RuOILeas21WLz86qf <u>33-4-0</u> 41-8-0 49-9-0 8-4-0 8-4-0 8-4-0 8-4-0 8-4-0 8-1-0

Scale = 1:83.5



10-4-10	20-9-4	29-2-12		39-7-6	49-9-0
10-4-10	10-4-10	8-5-8	· ·	10-4-10	10-1-10
CADING (psf)   TCLL (roof)   20.0   Snow (Pf/Pg)   11.6/15.0   TCDL   10.0   BCLL   0.0   * BCDL   10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.48 BC 0.57 WB 0.93 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl L/ -0.14 16-18 >999 24 -0.25 16-18 >999 18 0.03 14 n/a n/	0 MT20 244/190 0

BRACING-

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

2x6 SP No.2 TOP CHORD BOT CHORD 2x6 SP No.2

2x4 SP No.3 WEBS

**SLIDER** Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0

REACTIONS. (size) 1=0-3-8, 14=0-3-8, 11=Mechanical Max Horz 1=182(LC 15)

Max Uplift 1=-59(LC 16), 14=-150(LC 16), 11=-33(LC 16) Max Grav 1=1120(LC 27), 14=2833(LC 29), 11=634(LC 28)

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

TOP CHORD  $1-3=-1774/191,\ 3-5=-1647/212,\ 5-6=-568/201,\ 6-7=0/837,\ 7-9=-605/137,\ 9-11=-743/116$ 

**BOT CHORD** 1-18=-97/1746, 16-18=-16/937, 12-14=-326/78, 11-12=-33/686

WFBS 6-16=-79/1304, 5-16=-932/212, 5-18=-32/963, 6-14=-1831/144, 3-18=-417/169,

7-14=-959/213, 7-12=-37/1032, 9-12=-455/172

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 4-11-11, Interior(1) 4-11-11 to 25-0-0, Exterior(2R) 25-0-0 to 29-11-11, Interior(1) 29-11-11 to 49-9-0 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 4x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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 59 lb uplift at joint 1, 150 lb uplift at joint 14 and 33 lb uplift at joint 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.



Structural wood sheathing directly applied or 5-5-0 oc purlins.

6-14

5-16, 7-14

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

2 Rows at 1/3 pts

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty CLB-LOT #2 Roof 174047213 COMMON 25-3404-B T01C 2 Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:09 2025 Page 1 ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-UtOS489ENrj9EnVAulKldd8qMZn87lXopWob2nz86qe

8-4-0

33-4-0

8-4-0

41-8-0

8-4-0

39-7-6

(loc)

15

I/defl

>999

>999

n/a

Rigid ceiling directly applied or 6-0-0 oc bracing.

in

0.03

-0.14 17-19

-0.24 17-19

1 Row at midpt

2 Rows at 1/3 pts

L/d

240

180

n/a

Structural wood sheathing directly applied or 5-5-3 oc purlins.

6-15

5-17, 7-15

50-11-0 0-11-0 Scale = 1:84.0

50-0-0

8-4-0

50-0-0

10-4-10

**PLATES** 

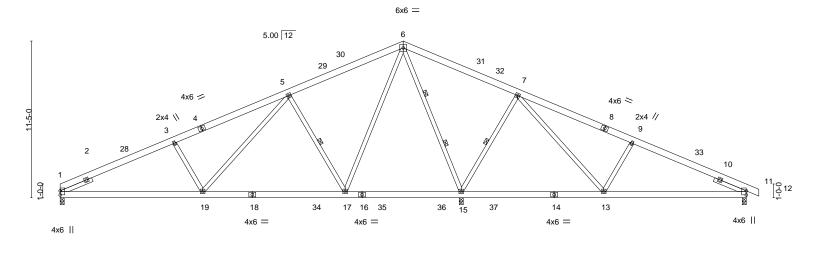
Weight: 352 lb

MT20

GRIP

244/190

FT = 20%



29-2-12

CSI.

TC

ВС

WB

Matrix-MS

0.47

0.57

0.93

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

**WEBS** 

TOP CHORD

**BOT CHORD** 

LUMBER-

LOADING (psf)

Snow (Pf/Pg) 11.6/15.0

TCLL (roof)

TCDI

**BCLL** 

**BCDL** 

WEBS

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 2x4 SP No.3

8-4-0

**SLIDER** Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0

REACTIONS.

(size) 1=0-3-8, 15=0-3-8, 11=0-3-8

Max Horz 1=-189(LC 14)

10-4-10

10-4-10

20.0

10.0

0.0

10.0

Max Uplift 1=-60(LC 16), 15=-146(LC 16), 11=-65(LC 16) Max Grav 1=1119(LC 28), 15=2838(LC 30), 11=696(LC 29)

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

TOP CHORD 1-3=-1770/193, 3-5=-1644/214, 5-6=-564/203, 6-7=0/843, 7-9=-629/135, 9-11=-773/114

20-9-4

10-4-10

2-0-0

1.15

1.15

YES

8-4-0

BOT CHORD 1-19=-79/1748, 17-19=0/939, 13-15=-330/94, 11-13=-8/714

WFBS 6-17=-80/1305, 5-17=-932/212, 6-15=-1837/142, 7-15=-965/214, 7-13=-32/1055,

9-13=-466/168, 5-19=-32/964, 3-19=-418/169

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior(1) 5-0-0 to 25-0-0, Exterior(2R) 25-0-0 to 30-0-0, Interior(1) 30-0-0 to 50-11-0 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 4x4 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 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 60 lb uplift at joint 1, 146 lb uplift at joint 15 and 65 lb uplift at joint 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty CLB-LOT #2 Roof 174047214 25-3404-B T01GE COMMON SUPPORTED GAB Job Reference (optional)

Riverside Roof Truss, LLC,

Danville, Va - 24541,

25-0-0

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:10 2025 Page 1 ID:tdHS5IWyLng?jaR9E1eBtqyly9\_-y4yrHUAs88r0sx3NSSrXAqh5iyFasOMx1AX8aDz86qd

Structural wood sheathing directly applied or 6-0-0 oc purlins,

18-41

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Row at midpt

25-0-0

Scale = 1:84.5

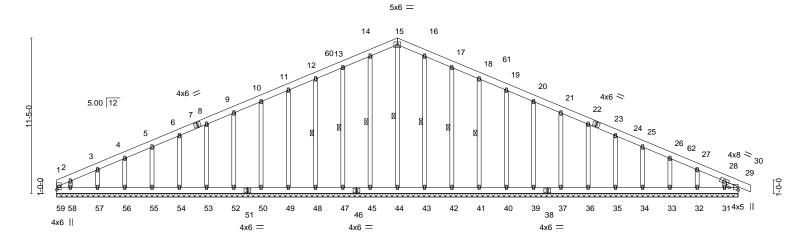


Plate Offsets (X,Y)--[29:Edge,0-7-13] LOADING (psf) SPACING-2-0-0 CSI. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.11 Vert(LL) -0.00 29 120 244/190 n/r MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.04 Vert(CT) -0.00 29 n/r 120 **TCDL** 10.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.01 29 n/a n/a **BCLL** 0.0 \* Code IRC2018/TPI2014 Weight: 446 lb FT = 20%Matrix-S BCDL 10.0

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

50-0-0

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x6 SP No.2

WEBS 2x4 SP No.3

**OTHERS** 2x4 SP No.3 SLIDER Right 2x4 SP No.3 0-11-5

All bearings 50-0-0.

Max Horz 59=-200(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 29, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58, 42, 41, 40, 39,

37, 36, 35, 34, 33, 32, 31 except 59=-124(LC 14)

All reactions 250 lb or less at joint(s) 59, 29, 44, 45, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58, Max Grav

43, 42, 41, 40, 39, 37, 36, 35, 34, 33, 32, 31

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

12-13=-107/264, 13-14=-123/304, 14-15=-132/327, 15-16=-132/327, 16-17=-123/304,

17-18=-107/264

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=50ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 5-0-0, Exterior(2N) 5-0-0 to 25-0-0, Corner(3R) 25-0-0 to 30-0-0, Exterior(2N) 30-0-0 to 50-11-0 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) 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.
- \* 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58, 42, 41, 40, 39, 37, 36, 35, 34, 33, 32, 31 except (jt=lb) 59=124.
- 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.



15-44, 14-45, 13-47, 12-48, 16-43, 17-42,

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty CLB-LOT #2 Roof 174047215 COMMON 25-3404-B T02 Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:11 2025 Page 1

8-4-0

8-4-0

ID:tdHS5IWyLng?jaR9E1eBtqyIy9\_-QGWDVqBUvSzsT5eZ0AMmi2DBPMS3bgn5GqHi6fz86qc 50-11-0 0-11-0 50-0-0

Structural wood sheathing directly applied or 5-1-12 oc purlins.

6-18, 8-16

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

7-16

6-0-0 oc bracing: 14-16.

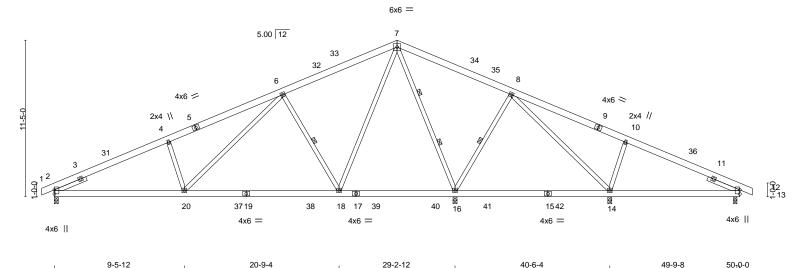
1 Row at midpt

2 Rows at 1/3 pts

8-4-0

Scale = 1:84.0

8-4-0



50<sub>7</sub>0-0 0-2-8 20-9-4 29-2-12 LOADING (psf) SPACING-2-0-0 DEFL. **PLATES** GRIP CSI. (loc) I/defl L/d TCLL (roof) 20.0 Vert(LL) -0.19 18-20 240 244/190 Plate Grip DOL 1.15 TC 0.44 >999 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.60 Vert(CT) -0.34 18-20 >999 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.89 Horz(CT) 0.03 16 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MS Weight: 355 lb FT = 20% **BCDL** 10.0

BOT CHORD

**WEBS** 

LUMBER-BRACING-TOP CHORD

8-4-0

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2

-0-11-0 0-11-0

8-4-0

2x4 SP No.3 WEBS

**SLIDER** Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0

REACTIONS. All bearings 0-3-8 except (jt=length) 12=0-3-0.

Max Horz 2=-190(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 14, 12 except 2=-100(LC 16), 16=-107(LC 16)

Max Grav All reactions 250 lb or less at joint(s) except 2=1213(LC 28), 16=2505(LC 28), 14=617(LC 37),

12=478(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1938/194, 4-6=-1853/249, 6-7=-650/225, 7-8=0/700, 10-12=-278/97 BOT CHORD

2-20=-85/1864, 18-20=-20/1032, 14-16=-348/68, 12-14=0/257

**WEBS** 4-20=-400/167, 6-20=-46/1044, 6-18=-911/217, 7-18=-78/1317, 7-16=-1742/117,

8-16=-630/208, 8-14=-14/462, 10-14=-466/169

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior(1) 4-1-0 to 25-0-0, Exterior(2R) 25-0-0 to 30-0-0, Interior(1) 30-0-0 to 50-11-0 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 4x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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) 14, 12 except (jt=lb) 2=100, 16=107.
- 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.



June 9,2025

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Job Truss Truss Type Qty CLB-LOT #2 Roof 174047216 25-3404-B T03 COMMON 10 Job Reference (optional)

8-6-4

8-2-13

Riverside Roof Truss, LLC,

8-6-5

-0-11-0 0-11-0

Danville, Va - 24541,

8-2-13

7-11-10

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:12 2025 Page 1 ID:tdHS5IWyLng?jaR9E1eBtqyIy9\_-uS4biAB6gm5j5FDIZtt?FFmLhmjtK83EVU0Ff6z86qb 33-6-4 49-9-0

Structural wood sheathing directly applied or 4-4-3 oc purlins.

6-21, 10-15

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

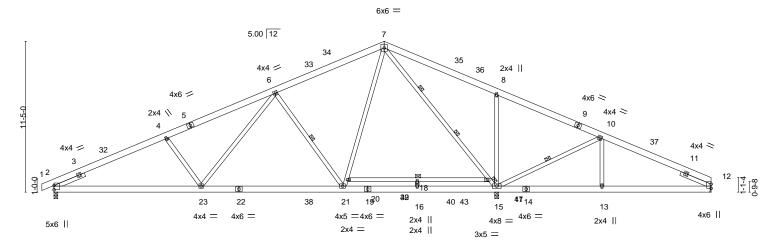
6-0-0 oc bracing: 17-20

1 Row at midpt

2 Rows at 1/3 pts

8-3-2

Scale = 1:87.2



11-1-12		2-0-0	27-6-0	33-6-4		41-5-14	49-9-0	4
11-1-12		0-10-4	5-6-0	6-0-4		7-11-10	8-3-2	<u> </u>
LOADING (psf)       TCLL (roof)     20.0       Snow (Pf/Pg)     11.6/15.0       TCDL     10.0       BCLL     0.0 *       BCDL     10.0	SPACING- 2-0 Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr YE Code IRC2018/TPI2014	5 TC 5 BC S WB	0.47 0.95 0.82 rix-MS	Vert(CT) -	in (loc) 0.29 18-20 0.46 18-20 0.05 15	l/defl L/d >999 240 >881 180 n/a n/a	PLATES MT20 Weight: 367 lb	<b>GRIP</b> 244/190 FT = 20%

BRACING-

**WEBS** 

TOP CHORD

BOT CHORD

LUMBER-

2x6 SP No.2 TOP CHORD

2x6 SP No.2 \*Except\* **BOT CHORD** 

14-19: 2x6 SP 2400F 2.0E, 17-20: 2x4 SP No.2

WEBS 2x4 SP No.3 \*Except\*

7-15: 2x4 SP DSS

SLIDER Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0

REACTIONS.

(size) 2=0-3-8, 15=0-3-8, 12=Mechanical

Max Horz 2=188(LC 15)

Max Uplift 2=-80(LC 16), 15=-33(LC 16), 12=-26(LC 16) Max Grav 2=1536(LC 28), 15=3080(LC 30), 12=478(LC 35)

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

TOP CHORD 2-4=-2591/182, 4-6=-2393/187, 6-7=-1331/169, 7-8=0/688, 8-10=0/662, 10-12=-433/107

**BOT CHORD** 2-23=-96/2456, 21-23=-6/1755, 16-21=0/811, 15-16=0/811, 13-15=-61/400,

WEBS 4-23=-398/165, 6-23=-20/824, 6-21=-924/211, 20-21=-0/1488, 7-20=0/1600,

7-17=-2116/31, 15-17=-2202/0, 8-15=-539/216, 10-15=-854/150, 16-18=-315/0

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=50ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 4-0-11, Interior(1) 4-0-11 to 25-0-0, Exterior(2R) 25-0-0 to 29-11-11, Interior(1) 29-11-11 to 49-9-0 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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) 2, 15, 12.
- 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.



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Job Truss Truss Type Qty CLB-LOT #2 Roof 174047217 25-3404-B T03GE COMMON SUPPORTED GAB Job Reference (optional)

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:13 2025 Page 1 ID:tdHS5IWyLng?jaR9E1eBtqyly9\_-MfdzwWCkR3DajOoy7aOEnTlcrAGF3I6Nk8moBYz86qa

Structural wood sheathing directly applied or 6-0-0 oc purlins,

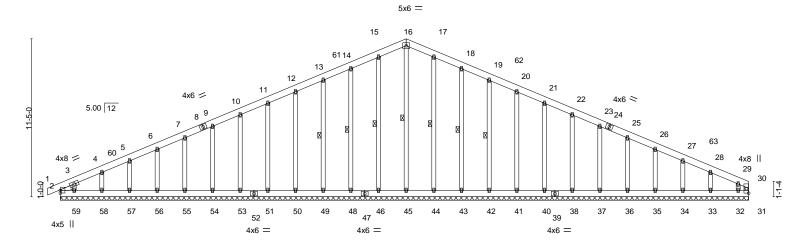
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Row at midpt

-0-11-0 0-11-0 25-0-0 24-9-0

Scale = 1:83.3



49-9-0 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. (loc) I/defl L/d TCLL (roof) 20.0 Plate Grip DOL Vert(LL) 244/190 1.15 TC 0.12 -0.00 n/r 120 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) -0.00 120 n/r TCDI 10.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.00 31 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 445 lb FT = 20% **BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

**WEBS** 

49-9-0

LUMBER-

TOP CHORD 2x6 SP No.2

2x6 SP No.2 **BOT CHORD** WEBS 2x4 SP No.3

**OTHERS** 2x4 SP No.3 SLIDER Left 2x4 SP No.3 0-11-5

REACTIONS. All bearings 49-9-0. Max Horz 2=202(LC 15) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 31, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59, 43, 42, 41, 40,

38, 37, 36, 35, 34, 33, 2 except 32=-109(LC 16)

Max Grav All reactions 250 lb or less at joint(s) 31, 45, 46, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59, 44,

43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 2

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

TOP CHORD 13-14=-107/259, 14-15=-121/299, 15-16=-130/323, 16-17=-130/323, 17-18=-121/299,

18-19=-107/259

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=50ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 4-0-11, Exterior(2N) 4-0-11 to 25-0-0, Corner(3R) 25-0-0 to 29-11-11, Exterior(2N) 29-11-11 to 49-7-4 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) 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=15.0 psf; Pf=11.6 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
- 5) Unbalanced snow loads have been considered for this design
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) 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.
- \* 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 2 except (jt=lb) 32=109.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 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.



16-45, 15-46, 14-48, 13-49, 17-44, 18-43,

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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

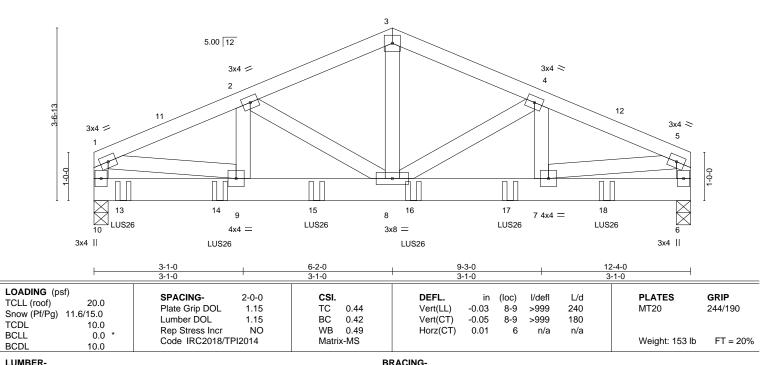


Job Truss Truss Type Qty Ply CLB-LOT #2 Roof 174047218 25-3404-B T04G Common Girder Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:14 2025 Page 1

ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-rrBL7sDNCNLRKYN8hlwTKgrieaWgo7gXynVMj\_z86qZ 12-4-0 3-1-0 3-1-0 3-1-0

4x4 =

Scale: 1/2"=1



TOP CHORD

BOT CHORD

LUMBER-2x4 SP No 2

TOP CHORD 2x6 SP No.2 **BOT CHORD** 

REACTIONS.

WEBS 2x4 SP No.3

> 10=0-3-8, 6=0-3-8 Max Horz 10=-54(LC 35) Max Uplift 10=-172(LC 12), 6=-150(LC 12) Max Grav 10=2460(LC 2), 6=2119(LC 2)

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

TOP CHORD 1-2=-2977/227, 2-3=-2486/211, 3-4=-2486/211, 4-5=-2974/227, 1-10=-1771/141,

5-6=-1774/142

(size)

BOT CHORD 9-10=-40/406, 8-9=-171/2707, 7-8=-171/2704, 6-7=-26/387

WFBS 3-8=-108/1677, 4-8=-538/62, 4-7=-74/372, 2-8=-541/61, 2-9=-73/375, 1-9=-151/2360,

5-7=-152/2377

### NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 6) Unbalanced snow loads have been considered for this design.
- 7) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=172, 6=150. 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) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-4 from the left
- end to 2-7-4 to connect truss(es) to front face of bottom chord. 12) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-7-4 from the left end to 10-7-4 to connect truss(es) to front face of bottom chord.

Och)tinilledlonaipagles where hanger is in contact with lumber.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Job Truss Truss Type Qty Ply CLB-LOT #2 Roof 174047218 25-3404-B T04G Common Girder

Riverside Roof Truss, LLC,

Danville, Va - 24541,

| **Z** | Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:14 2025 Page 2 ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-rrBL7sDNCNLRKYN8hlwTKgrieaWgo7gXynVMj\_z86qZ

### LOAD CASE(S) Standard

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

Vert: 1-3=-43, 3-5=-43, 6-10=-20

Concentrated Loads (lb)

Vert: 13=-453(F) 14=-447(F) 15=-448(F) 16=-448(F) 17=-448(F) 18=-448(F)



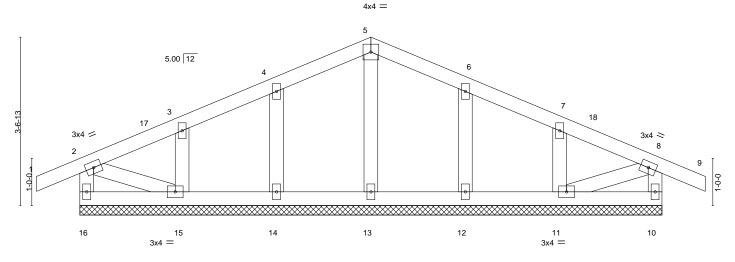


Job Truss Truss Type Qty Ply CLB-LOT #2 Roof 174047219 25-3404-B T04GE COMMON SUPPORTED GAB Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:15 2025 Page 1

ID:tdHS5IWyLng?jaR9E1eBtqyIy9\_-J1IkKCE?zhTIyiyKF?RituOy2zyvXh4gBRFvFRz86qY

13-3-0 6-2-0 0-11-0

Scale = 1:24.4



12-4-0 12-4-0 LOADING (psf) SPACING-2-0-0 DEFL. **PLATES GRIP** CSI. (loc) I/defl L/d TCLL (roof) 20.0 Vert(LL) 244/190 Plate Grip DOL 1.15 TC 0.08 -0.00 9 n/r 120 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) -0.00 9 120 n/r TCDI 10.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 10 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 63 lb FT = 20% BCDL 10.0

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3

0-11-0

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.

REACTIONS. All bearings 12-4-0.

Max Horz 16=-62(LC 14) (lb) -

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

6-2-0 6-2-0

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; B=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-2-0, Exterior(2N) 2-2-0 to 6-2-0, Corner(3R) 6-2-0 to 9-2-0, Exterior(2N) 9-2-0 to 13-3-0 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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.
- 13) 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
- 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.



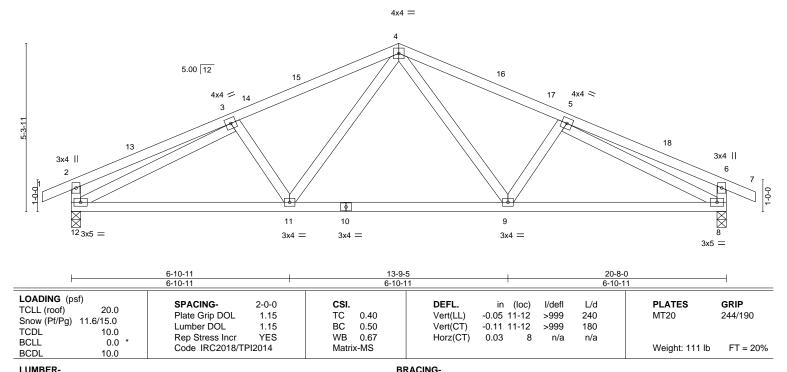
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty Ply CLB-LOT #2 Roof 174047220 25-3404-B T05 COMMON 2 Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:15 2025 Page 1 ID:tdHS5lWyLng?jaR9E1eBtqyIy9\_-J1lkKCE?zhTlyiyKF?RituOt1zrgXX9gBRFvFRz86qY 21-7-0 0-11-0 0-11-0 20-8-0 5-2-0 5-2-0 5-2-0

Scale = 1:36.4



TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD

REACTIONS.

2x4 SP No.2

2x4 SP No.2 **BOT CHORD** WEBS 2x4 SP No.3

(size) 12=0-3-8, 8=0-3-8

Max Horz 12=-85(LC 14) Max Uplift 12=-83(LC 16), 8=-83(LC 16) Max Grav 12=879(LC 2), 8=879(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-266/89, 3-4=-1170/233, 4-5=-1170/233, 5-6=-266/89, 2-12=-292/132,

6-8=-292/132

**BOT CHORD** 11-12=-162/1110, 9-11=-68/831, 8-9=-148/1110

WFBS 4-9=-35/369, 4-11=-35/369, 3-12=-1055/159, 5-8=-1055/159

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 21-7-0 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.
- 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.



Structural wood sheathing directly applied or 5-1-13 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty Ply CLB-LOT #2 Roof 174047221 25-3404-B T05G Common Girder Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:16 2025 Page 1 ID:tdHS5IWyLng?jaR9E1eBtqyIy9\_-nEJ6YYEdk\_b9asXXojyxP5w?qNB9G1vqQ5\_Sotz86qX 15-6-0 20-8-0 5-2-0 5-2-0 Scale = 1:35.5 4x4 = 3 5.00 12 3x4 = 3x4 ≥ 13 2 14 15 9 16 17 18 19 20 21 10 7 11 <sub>7x8</sub> LUS26 4x6 = LUS26 LUS26 LUS26 LUS26 LUS26 4x4 = 3x8 =4x4 = 7x8 = LUS26 LUS26 LUS26 LUS26 10-4-0 15-6-0 20-8-0 Plate Offsets (X,Y)--[6:Edge,0-6-4], [11:Edge,0-6-4] LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.59 Vert(LL) -0.06 7-8 >999 240 244/190 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.48 Vert(CT) -0.10 7-8 >999 180 TCDL 10.0 Rep Stress Incr NO WB 0.51 Horz(CT) 0.02 6 n/a n/a **BCLL** 0.0 \* Code IRC2018/TPI2014 Matrix-MS Weight: 382 lb FT = 20%BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x6 SP No.2 except end verticals. 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 

REACTIONS.

(size) 11=0-3-8, 6=0-3-8

Max Horz 11=-76(LC 10) Max Uplift 11=-236(LC 12), 6=-239(LC 12) Max Grav 11=3086(LC 2), 6=3124(LC 2)

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

TOP CHORD 1-2=-4894/396, 2-3=-3729/337, 3-4=-3729/337, 4-5=-4896/397, 1-11=-2508/219,

5-6=-2509/219

BOT CHORD 10-11=-64/818, 8-10=-312/4460, 7-8=-312/4462, 6-7=-64/812

WEBS 3-8=-172/2511, 4-8=-1263/137, 4-7=-59/786, 2-8=-1261/137, 2-10=-59/785,

1-10=-250/3676, 5-7=-250/3682

### NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 6) Unbalanced snow loads have been considered for this design.
- 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=236, 6=239 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) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-5-4 from the left end to 19-5-4 to connect truss(es) to front face of bottom chord.

12) Fill all nail holes where hanger is in contact with lumber.

### SEAL 036322

June 9,2025

Continued on page 2

LOAD CASE(S) Standard

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Job Truss Truss Type Qty Ply CLB-LOT #2 Roof 174047221 25-3404-B T05G Common Girder

Riverside Roof Truss, LLC,

Danville, Va - 24541,

3 Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:16 2025 Page 2 ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-nEJ6YYEdk\_b9asXXojyxP5w?qNB9G1vqQ5\_Sotz86qX

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-43, 3-5=-43, 6-11=-20

Concentrated Loads (lb)

Vert: 7=-319(F) 10=-319(F) 14=-319(F) 15=-319(F) 16=-319(F) 17=-319(F) 18=-319(F) 19=-319(F) 20=-319(F) 21=-319(F) 10=-319(F) 10=-31





Job Truss Truss Type Qty CLB-LOT #2 Roof 174047222 25-3404-B T05GE COMMON SUPPORTED GAB

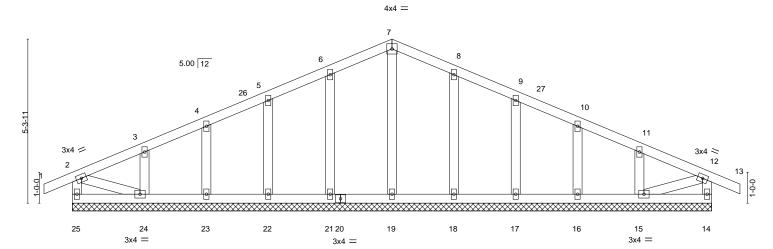
Riverside Roof Truss, LLC, Danville, Va - 24541,

|<del>-0-11-0</del> | <del>0-11-0</del>

Job Reference (optional)

8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:17 2025 Page 1 ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-FQtUluFFVIj0C06jMQTAyJTIXneJ?aHzelk0KJz86qW 21-7-0 10-4-0

Scale = 1:37.2



20-8-0 LOADING (psf) SPACING-2-0-0 DEFL. **PLATES** GRIP CSI. (loc) I/defl L/d TCLL (roof) 20.0 Vert(LL) 244/190 Plate Grip DOL 1.15 TC 0.08 -0.00 13 n/r 120 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) -0.00 13 120 n/r TCDI 10.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 14 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 114 lb FT = 20% **BCDL** 10.0

**BOT CHORD** 

LUMBER-BRACING-

10-4-0

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

WEBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 24-25,14-15.

REACTIONS. All bearings 20-8-0.

Max Horz 25=-85(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 25, 14, 21, 22, 23, 24, 18, 17, 16, 15 Max Grav All reactions 250 lb or less at joint(s) 25, 14, 19, 21, 22, 23, 24, 18, 17, 16, 15

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-4-0, Exterior(2N) 2-4-0 to 10-4-0, Corner(3R) 10-4-0 to 13-4-0, Exterior(2N) 13-4-0 to 21-7-0 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 14, 21, 22, 23, 24, 18, 17, 16, 15,
- 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.



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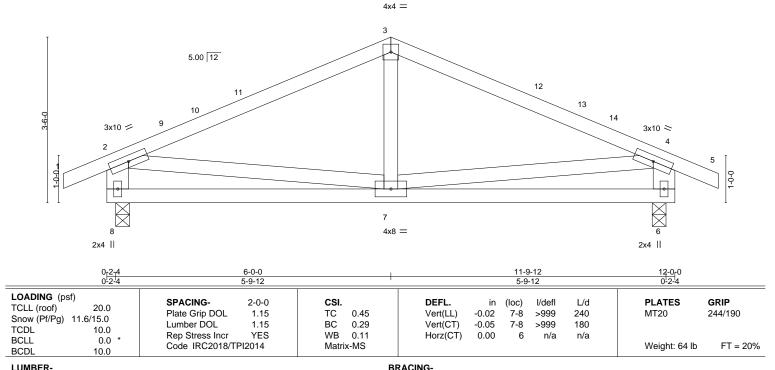


Job Truss Truss Type Qty CLB-LOT #2 Roof 174047223 25-3404-B T06 COMMON 2 Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:18 2025 Page 1 Riverside Roof Truss, LLC,

Danville, Va - 24541,

ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-jcRszDGtGcrtpAhvw8\_PUW0OTBwWk0g6tPTZslz86qV 12-0-0 12-11-0 0-5-8 0-11-0 0-11-0 6-0-0 5-6-8

Scale = 1:24.3



TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.2 2x4 SP No.2

**BOT CHORD** 2x4 SP No.3 \*Except\* WEBS

2-8,4-6: 2x6 SP No.2

REACTIONS. (size) 8=0-3-8, 6=0-3-8

Max Horz 8=-63(LC 14)

Max Uplift 8=-64(LC 16), 6=-64(LC 16) Max Grav 8=530(LC 2), 6=530(LC 2)

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

2-3=-562/180, 3-4=-562/180, 2-8=-478/231, 4-6=-478/231 TOP CHORD

**BOT CHORD** 7-8=-165/271, 6-7=-120/271 WFBS 2-7=0/260, 4-7=0/260

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0 , Interior(1) 9-0-0 to 12-11-0 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8. 6.
- 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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Job	Truss	Truss Type	Qty	Ply	CLB-LOT #2 Roof		
							174047224
25-3404-B	T06A	Common	1	1	1		
					Job Reference (optional)		
Riverside Roof Truss, LLC,	Danville, Va - 24541,			3.830 s Ma	y 29 2025 MiTek Industries, Inc. M	on Jun 9 05:05:18 20	)25 Page 1
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		6-0-0			11-6-8	12-0-0	
		6-0-0			5-6-8	11 <sub>1</sub> -8 <sub>1</sub> -0 0 <sup>1</sup> 1 <sup>1</sup> 8	
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	5-12						
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	1-12	5-6-4			5-9-12	0-2-4	
	1 12						
LOADING (psf)	SPACING-	2-0-0 <b>CSI</b> .	DEFL.	in	(loc) I/defl L/d	PLATES	GRIP
TCLL (roof) 20.0			1				
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL	1.15 TC 0.47	Vert(LL			MT20	244/190
TCDL 10.0	Lumber DOL	1.15 BC 0.29	Vert(CT				
BCLL 0.0 *	Rep Stress Incr	YES WB 0.12	Horz(C	T) 0.00	4 n/a n/a		
	Code IRC2018/	ΓΡΙ2014 Matrix-MS	1			Weight: 61 lb	FT = 20%
BCDL 10.0			1				
LUMBER-		В	RACING-				
TOP CHOPD 2v4 SP No.	2		OP CHOPD	Structur	al wood sheathing directly applie	ad or 6-0-0 oc purling	

**BOT CHORD** 

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

BOT CHORD 2x4 SP No.2

2x4 SP No.3 \*Except\* WEBS

1-6,3-4: 2x6 SP No.2

REACTIONS.

(size) 6=0-3-8, 4=0-3-8 Max Horz 6=-57(LC 14)

Max Uplift 6=-28(LC 16), 4=-28(LC 16) Max Grav 6=462(LC 2), 4=462(LC 2)

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

1-2=-576/188, 2-3=-576/185, 1-6=-409/173, 3-4=-409/171 TOP CHORD

WEBS 1-5=-39/297, 3-5=-40/297

### NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 11-9-4 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=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
- 8) 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty CLB-LOT #2 Roof 174047225 25-3404-B V01 Valley Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:19 2025 Page 1 ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-Bp?EAZHV1vzkRJF5UrVe1kYcmbJWTUxG63D7PCz86qU

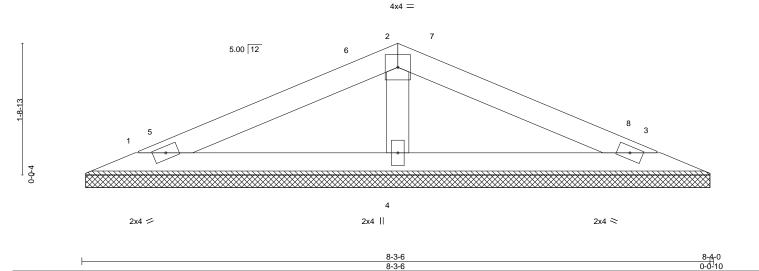
8-4-0

4-2-0

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:15.2



LOADING (psf) SPACING-2-0-0 DEFL. I/defI L/d **PLATES GRIP** CSI. (loc) TCLL (roof) 20.0 Plate Grip DOL TC Vert(LL) 999 244/190 1.15 0.22 n/a n/a MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 25 lb FT = 20% **BCDL** 10.0 BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

**OTHERS** 2x4 SP No.3

> 1=8-2-13, 3=8-2-13, 4=8-2-13 (size) Max Horz 1=18(LC 15)

Max Uplift 1=-19(LC 16), 3=-19(LC 16)

Max Grav 1=136(LC 20), 3=136(LC 21), 4=277(LC 2)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 4-2-0, Exterior(2R) 4-2-0 to 7-2-0, Interior(1) 7-2-0 to 7-6-15 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4-2-0

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



June 9,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty CLB-LOT #2 Roof 174047226 25-3404-B V02 Valley Job Reference (optional) Riverside Roof Truss, LLC, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:19 2025 Page 1 Danville, Va - 24541, ID:tdHS5IWyLng?jaR9E1eBtqyly9\_-Bp?EAZHV1vzkRJF5UrVe1kYfTbJqTUbG63D7PCz86qU 2-2-0 2-2-0 2-2-0 Scale: 1.5"=1 3x4 = 2 5.00 12 3

	4-3-0						0-0-	0-0-10				
Plate Offsets	(X,Y) [2:0-2-0,I	Edge]										
LOADING (p TCLL (roof) Snow (Pf/Pg) TCDL BCLL	20.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.05 0.10 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0	Code IRC2018/TF	PI2014	Matr	ix-P						Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

BRACING-

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 4-4-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 >

REACTIONS.

1=4-2-13, 3=4-2-13 (size) Max Horz 1=-8(LC 14) Max Uplift 1=-7(LC 16), 3=-7(LC 16) Max Grav 1=113(LC 2), 3=113(LC 2)

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

2x4 /

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



June 9,2025

4<sub>1</sub>4<sub>1</sub>0

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



174047227 25-3404-B V03 Valley Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:20 2025 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541, ID:tdHS5IWyLng?jaR9E1eBtqyIy9\_-f?YdOvI7nD5b3TqI1Z0tax5nd\_emCx?PLjygxez86qT 16-8-0 8-4-0 Scale = 1:26.6 4x4 =3 5.00 12 12 2x4 || 2x4 || 4

Qty

CLB-LOT #2 Roof

6

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 ||

	244 []							
0-Q <sub>1</sub> 10		16-8-0	)					1
0-d <sup>1</sup> 10		16-7-6	;					
LOADING (psf) TCLL (roof) 20.0	SPACING- 2-0-0	CSI.	DEFL.		oc) I/defl	L/d	PLATES	GRIP
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.21 BC 0.12	Vert(LL) Vert(CT)	n/a n/a	- n/a - n/a	999 999	MT20	244/190
TCDL 10.0 BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	5 n/a	n/a		

BRACING-

TOP CHORD

BOT CHORD

Matrix-S

2x4 ||

LUMBER-

**BCDL** 

Job

Truss

Truss Type

TOP CHORD 2x4 SP No 2 2x4 SP No.2

10.0

**BOT CHORD OTHERS** 2x4 SP No.3

3x4 /

REACTIONS. All bearings 16-6-13. Max Horz 1=41(LC 15) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 9, 6

10

9 8

Code IRC2018/TPI2014

2v4 II

3x4 =

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=274(LC 2), 9=359(LC 33), 6=359(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-9=-270/157, 4-6=-270/157 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 8-4-0, Exterior(2R) 8-4-0 to 11-4-0, Interior(1) 11-4-0 to 15-10-15 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 9, 6.
- 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.



3x4 >

Weight: 57 lb

FT = 20%

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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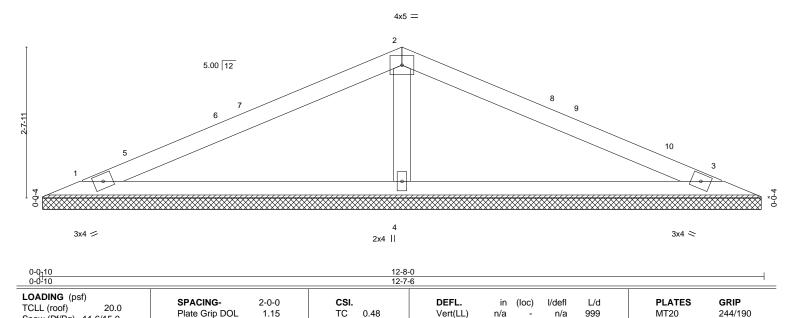


174047228 25-3404-B V04 Valley Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:20 2025 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541, ID:tdHS5IWyLng?jaR9E1eBtqyly9\_-f?YdOvI7nD5b3TqI1Z0tax5jT\_bnCwiPLjygxez86qT 6-4-0 6-4-0

Qty

CLB-LOT #2 Roof

Scale = 1:20.1



LUMBER-

TCDI

**BCLL** 

**BCDL** 

Job

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

10.0

10.0

0.0

Snow (Pf/Pg) 11.6/15.0

**OTHERS** 2x4 SP No.3

ВС

WB

Matrix-S

0.31

0.07

1.15

YES

Truss Type

BRACING-TOP CHORD BOT CHORD

Vert(CT)

Horz(CT)

n/a

0.00

Structural wood sheathing directly applied or 6-0-0 oc purlins.

999

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

n/a

n/a

3

REACTIONS. 1=12-6-13, 3=12-6-13, 4=12-6-13 (size)

Truss

Max Horz 1=-30(LC 14)

Max Uplift 1=-21(LC 16), 3=-21(LC 16), 4=-11(LC 16) Max Grav 1=201(LC 33), 3=201(LC 34), 4=500(LC 2)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

WEBS 2-4=-337/182

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 6-4-0, Exterior(2R) 6-4-0 to 9-4-0, Interior(1) 9-4-0 to 11-10-15 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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.



Weight: 40 lb

FT = 20%

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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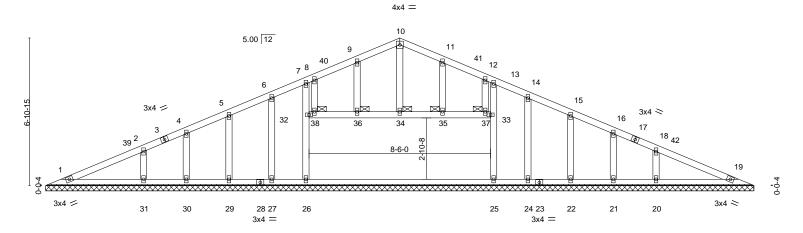
Job Truss Truss Type Qty CLB-LOT #2 Roof 174047229 25-3404-B V05GE **GABLE** 

Riverside Roof Truss, LLC, Danville, Va - 24541,

Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:21 2025 Page 1 ID:tdHS5IWyLng?jaR9E1eBtqyly9\_-8B6?bFlmYXDSqdPUbGY669eyTOtoxKvZZNiDT4z86qS

20-7-0 18-7-0 2-0-0 2-0-0 2-0-0 2-0-0 12-7-0

Scale = 1:53.9



LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. (loc) I/defl L/d TCLL (roof) 20.0 Plate Grip DOL Vert(LL) 244/190 1.15 TC 0.21 n/a n/a 999 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.51 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.27 Horz(CT) 0.01 19 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 174 lb FT = 20% **BCDL** 10.0

LUMBER-

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

WEBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3 BRACING-

TOP CHORD BOT CHORD **JOINTS** 

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

1 Brace at Jt(s): 34, 35, 36, 37, 38

REACTIONS. All bearings 33-2-0.

Max Horz 1=100(LC 15) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 29, 30, 31, 22, 21, 20 except 27=-125(LC 7), 24=-125(LC 7) Max Grav All reactions 250 lb or less at joint(s) 1, 29, 30, 22, 21, 19 except 26=465(LC 7), 25=465(LC 7), 31=314(LC 33), 20=314(LC 34)

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

TOP CHORD 1-2=-330/0, 2-4=-336/43, 4-5=-319/61, 5-6=-328/90, 6-7=-293/108, 7-8=-378/133,

8-9=-349/141, 9-10=-323/161, 10-11=-323/160, 11-12=-349/140, 12-13=-378/133, 13-14=-293/107, 14-15=-328/89, 15-16=-319/60, 16-18=-336/42, 18-19=-330/0

1-31=0/277, 30-31=0/277, 29-30=0/277, 27-29=0/277, 26-27=0/277, 25-26=0/270, **BOT CHORD** 

24-25=0/277, 22-24=0/277, 21-22=0/277, 20-21=0/277, 19-20=0/277

WFBS 26-32=-259/98, 7-32=-278/99, 25-33=-259/98, 13-33=-278/98

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 4-0-12, Interior(1) 4-0-12 to 16-7-0, Exterior(2R) 16-7-0 to 19-10-11, Interior(1) 19-10-11 to 32-4-15 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 30, 31, 22, 21, 20 except (jt=lb) 27=125, 24=125.
- 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.



June 9,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty CLB-LOT #2 Roof 174047230 25-3404-B V06 Valley Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:22 2025 Page 1 Riverside Roof Truss, LLC,

Danville, Va - 24541,

14-7-0

ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-cOgNobJOJqMJln\_g9z3LfMA4loHPgp6io1Rn?Xz86qR

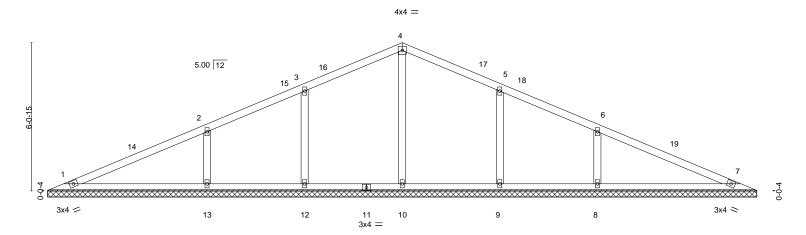
Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

14-7-0

Scale = 1:47.2

29-2-0



29-1-6								0-0-10	
LOADING (psf)   TCLL (roof)   20.0   Snow (Pf/Pg)   11.6/15.0   TCDL   10.0   BCLL   0.0 *   BCDL   10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.43 BC 0.30 WB 0.14 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 114 lb	<b>GRIP</b> 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

29-1-6

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No.2

**BOT CHORD OTHERS** 2x4 SP No.3

REACTIONS. All bearings 29-0-13 Max Horz 1=82(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 12, 13, 9, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=414(LC 27), 12=333(LC 27), 13=531(LC 27),

9=332(LC 28), 8=531(LC 28)

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

2-13=-347/132. 6-8=-347/132 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=29ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 14-7-0, Exterior(2R) 14-7-0 to 17-7-0, Interior(1) 17-7-0 to 28-4-15 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 7) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 12, 13, 9, 8.
- 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



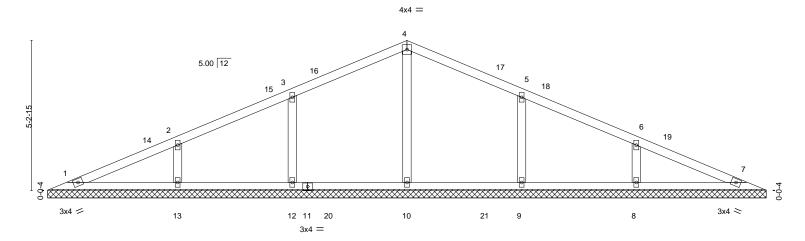
Job Truss Truss Type Qty CLB-LOT #2 Roof 174047231 25-3404-B V07 Valley Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:22 2025 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541,

ID:tdHS5IWyLng?jaR9E1eBtqyIy9\_-cOgNobJOJqMJIn\_g9z3LfMA7QoJSgqmio1Rn?Xz86qR

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:40.2



0-0 <sub>1</sub> 10 0-0-10		25-2- 25-1-							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 *	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         YES	CSI. TC 0.19 BC 0.17 WB 0.10	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 7	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 95 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No 2 2x4 SP No.2

**BOT CHORD OTHERS** 2x4 SP No.3

> All bearings 25-0-13. Max Horz 1=-63(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 12, 13, 9, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=379(LC 27), 12=368(LC 27), 13=382(LC 27),

9=368(LC 28), 8=382(LC 28)

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

3-12=-256/119, 2-13=-255/110, 5-9=-256/119, 6-8=-255/110 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 12-7-0, Exterior(2R) 12-7-0 to 15-7-0, Interior(1) 15-7-0 to 24-4-15 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 7) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 13, 9, 8.
- 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.



June 9,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty CLB-LOT #2 Roof 174047232 25-3404-B V08 Valley Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:23 2025 Page 1 Danville, Va - 24541,

Riverside Roof Truss, LLC,

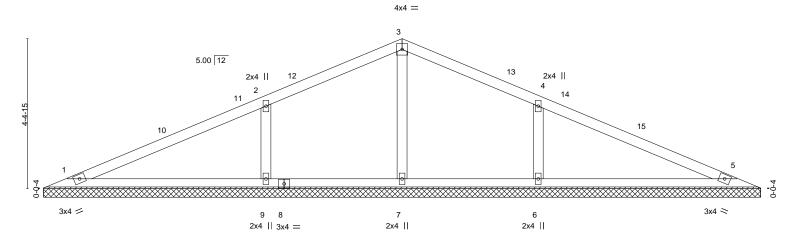
ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-4aEl0xK048U9wxZtjhaaBajEQCd0PHJs1hBKYzz86qQ

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

10-7-0 10-7-0

Scale = 1:33.8



0-0-10		21-2-					
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.43 BC 0.27 WB 0.08 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc n/a - n/a 0.00	 L/d 999 999 n/a	PLATES MT20 Weight: 75 lb	<b>GRIP</b> 244/190 FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No 2 2x4 SP No.2

**BOT CHORD OTHERS** 2x4 SP No.3

> All bearings 21-0-13. Max Horz 1=-53(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 9, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=500(LC 33), 6=500(LC 34)

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

2-9=-365/174, 4-6=-365/174 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 10-7-0, Exterior(2R) 10-7-0 to 13-7-0, Interior(1) 13-7-0 to 20-4-15 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 9, 6.
- 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.



June 9,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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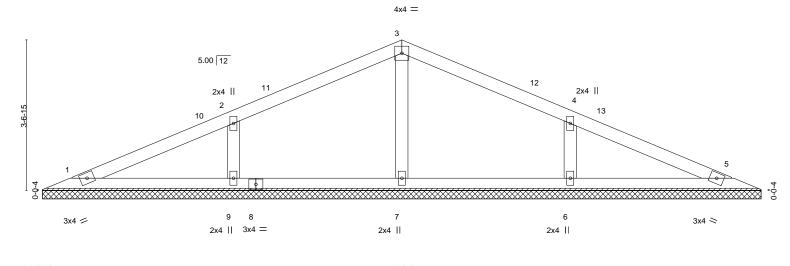
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Job Truss Truss Type Qty CLB-LOT #2 Roof 174047233 25-3404-B V09 Valley Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:23 2025 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541,

ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-4aEl0xK048U9wxZtjhaaBajHfCgJPlis1hBKYzz86qQ

Scale = 1:27.4



0-0-10		17-2-U 17-1-6							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.23 BC 0.13 WB 0.06 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in ( n/a n/a 0.00	(loc) - - 5	I/defI n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 59 lb	<b>GRIP</b> 244/190 FT = 20%

LUMBER-

**OTHERS** 

TOP CHORD 2x4 SP No 2 **BOT CHORD** 

2x4 SP No.2 2x4 SP No.3

8-7-0

TOP CHORD BOT CHORD

BRACING-

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

REACTIONS. All bearings 17-0-13. Max Horz 1=-42(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 9, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=268(LC 2), 9=373(LC 33), 6=373(LC 34)

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

2-9=-279/158, 4-6=-279/158 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 8-7-0, Exterior(2R) 8-7-0 to 11-7-0, Interior(1) 11-7-0 to 16-4-15 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 9, 6.
- 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.



June 9,2025

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Job Truss Truss Type Qty CLB-LOT #2 Roof 174047234 25-3404-B V10 Valley Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:24 2025 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541,

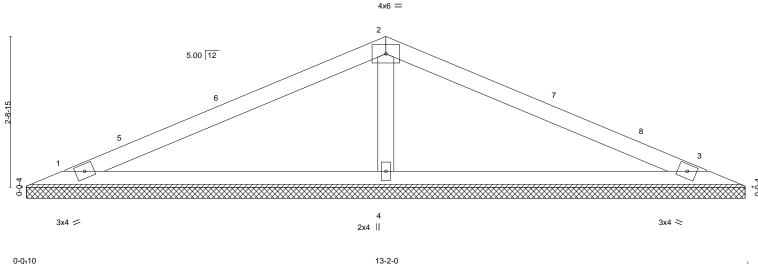
ID:tdHS5IWyLng?jaR9E1eBtqyly9\_-Ymo7DHLerSc0X583GO5pknGNicyH8kc?FLwu4Pz86qP

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

6-7-0

Scale = 1:20.9



0-0<sub>-1</sub>10 0-0-10 LOADING (psf) SPACING-2-0-0 DEFL. I/defI L/d **PLATES GRIP** CSI. (loc) TCLL (roof) 20.0 Plate Grip DOL Vert(LL) 999 244/190 1.15 TC 0.53 n/a n/a MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.34 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.08 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 41 lb FT = 20% **BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

**OTHERS** 2x4 SP No.3

> 1=13-0-13, 3=13-0-13, 4=13-0-13 (size)

Max Horz 1=-31(LC 14)

Max Uplift 1=-22(LC 16), 3=-22(LC 16), 4=-12(LC 16) Max Grav 1=210(LC 33), 3=210(LC 34), 4=522(LC 2)

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

WEBS 2-4=-352/183

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 6-7-0, Exterior(2R) 6-7-0 to 9-7-0, Interior(1) 9-7-0 to 12-4-15 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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.



June 9,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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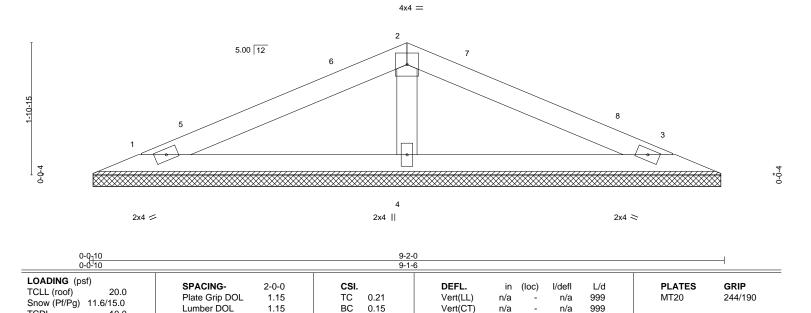
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Job Truss Truss Type Qty CLB-LOT #2 Roof 174047235 25-3404-B V11 Valley Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:24 2025 Page 1

ID:tdHS5IWyLng?jaR9E1eBtqyly9\_-Ymo7DHLerSc0X583GO5pknGSkc?F8l5?FLwu4Pz86qP

Scale = 1:16.6



LUMBER-

REACTIONS.

TCDI

**BCLL** 

**BCDL** 

TOP CHORD 2x4 SP No.2 2x4 SP No.2

10.0

0.0

10.0

BOT CHORD **OTHERS** 2x4 SP No.3

> 1=9-0-13, 3=9-0-13, 4=9-0-13 (size)

Max Horz 1=21(LC 15)

Max Uplift 1=-15(LC 16), 3=-15(LC 16), 4=-8(LC 16) Max Grav 1=142(LC 20), 3=142(LC 21), 4=343(LC 2)

Rep Stress Incr

Code IRC2018/TPI2014

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 4-7-0, Exterior(2R) 4-7-0 to 7-7-0, Interior(1) 7-7-0 to 8-4-15 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

YES

WB

Matrix-S

0.05

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

3

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

n/a

Structural wood sheathing directly applied or 6-0-0 oc purlins.

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4-7-0

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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.



Weight: 28 lb

FT = 20%

June 9,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty CLB-LOT #2 Roof 174047236 25-3404-B V12 Valley Job Reference (optional) Riverside Roof Truss, LLC, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:25 2025 Page 1 Danville, Va - 24541, ID:tdHS5IWyLng?jaR9E1eBtqyIy9\_-0yMWRdLGclkt9EjFq6c2H?ofW?L8tC48U?gRcsz86qO Scale = 1:9.9 3x4 =5.00 12 3 2x4 / 2x4 < Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) 999 MT20 244/190 n/a n/a Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.17 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 \* Code IRC2018/TPI2014 FT = 20% Matrix-P Weight: 13 lb BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins. BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS. 1=5-0-13, 3=5-0-13 (size) Max Horz 1=10(LC 15)

Max Uplift 1=-9(LC 16), 3=-9(LC 16) Max Grav 1=146(LC 2), 3=146(LC 2)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 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
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



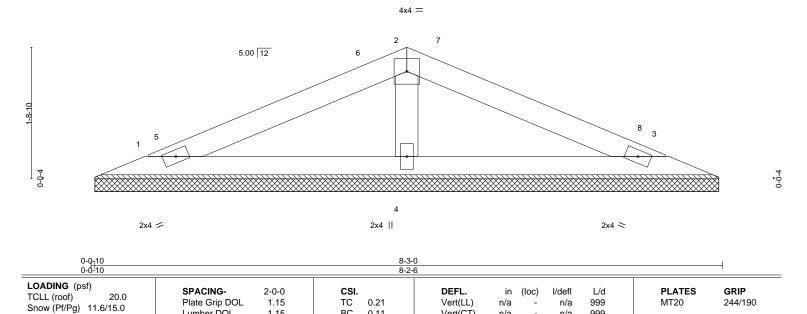
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty CLB-LOT #2 Roof 174047237 25-3404-B V13 Valley Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:25 2025 Page 1 ID:tdHS5IWyLng?jaR9E1eBtqyIy9\_-0yMWRdLGclkt9EjFq6c2H?odL?MztCQ8U?gRcsz86qO

Scale = 1:15.0



LUMBER-

TCDI

**BCLL** 

**BCDL** 

TOP CHORD 2x4 SP No.2 2x4 SP No.2

10.0

0.0

10.0

BOT CHORD **OTHERS** 2x4 SP No.3 BRACING-

TOP CHORD BOT CHORD

Vert(CT)

Horz(CT)

n/a

0.00

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

999

n/a

n/a

n/a

3

REACTIONS.

1=8-1-13, 3=8-1-13, 4=8-1-13 (size) Max Horz 1=-18(LC 14) Max Uplift 1=-19(LC 16), 3=-19(LC 16)

Max Grav 1=134(LC 20), 3=134(LC 21), 4=273(LC 2)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 4-1-8, Exterior(2R) 4-1-8 to 7-1-8, Interior(1) 7-1-8 to 7-5-15 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

1.15

YES

ВС

WB

Matrix-P

0.11

0.04

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4-1-8

- \* 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



Weight: 25 lb

FT = 20%

June 9,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job Truss Truss Type Qty CLB-LOT #2 Roof 174047238 25-3404-B V14 Valley Job Reference (optional) 8.830 s May 29 2025 MiTek Industries, Inc. Mon Jun 9 05:05:26 2025 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541, ID:tdHS5lWyLng?jaR9E1eBtqyly9\_-U9wuezMuN3sknOlSOp7HpCLrkPhZcfKljfP\_8lz86qN 2-1-8 Scale = 1:7.9 3x4 = 5.00 12 2 2x4 = 2x4 < 4-2-6 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) GRIP SPACING-2-0-0 CSI. **DEFL** in (loc) I/defl L/d **PLATES** TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) 999 MT20 244/190 n/a n/a Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.09 Vert(CT) n/a n/a 999

LUMBER-

**TCDL** 

**BCLL** 

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

10.0

10.0

0.0 \*

BRACING-

Horz(CT)

0.00

3

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 4-3-0 oc purlins.

n/a

Rigid ceiling directly applied or 10-0-0 oc bracing.

n/a

REACTIONS.

1=4-1-13, 3=4-1-13 (size) Max Horz 1=-7(LC 14) Max Uplift 1=-7(LC 16), 3=-7(LC 16) Max Grav 1=110(LC 2), 3=110(LC 2)

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

Rep Stress Incr

Code IRC2018/TPI2014

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 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

YES

WB

Matrix-P

0.00

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



FT = 20%

Weight: 11 lb

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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### Symbols

## PLATE LOCATION AND ORIENTATION



offsets are indicated and fully embed teeth Center plate on joint unless x, y Apply plates to both sides of truss Dimensions are in ft-in-sixteenths



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

connector plates. required direction of slots in This symbol indicates the

\* Plate location details available in MiTek software or upon request

### PLATE SIZE

to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. ndicated by symbol shown and/or

### **BEARING**



Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### Industry Standards:

National Design Specification for Metal Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-22: ANSI/TPI1:

## Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

# Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

# Design General Notes

truss unless otherwise shown Trusses are designed for wind loads in the plane of the

established by others section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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## MiTek



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

# General Safety Notes

## Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.