

Trenco 818 Soundside Rd Edenton, NC 27932

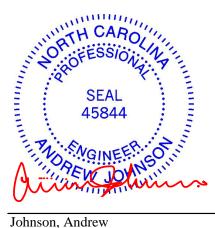
Re: 25-0517-A FFF-LOT #6 Roof

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: I72235661 thru I72235705

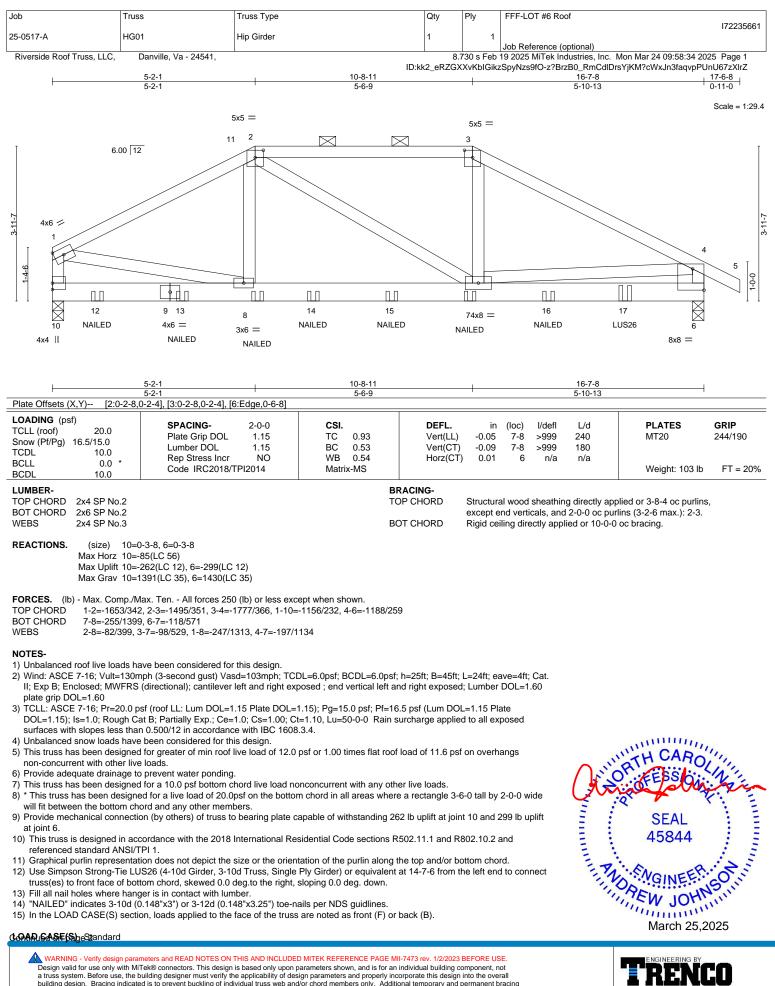
My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



March 25,2025

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.



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 **ANS//TPI 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	FFF-LOT #6 Roof
					172235661
25-0517-A	HG01	Hip Girder	1	1	
					Job Reference (optional)
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 09:58:34 2025 Page 2

8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 09:58:34 2025 Page 2 ID:kk2_eRZGXXvKblGikzSpyNzs9fO-z?BrzB0_RmCdlDrsYjKM?cWxJn3faqvpPUnU67zXIrZ

LOAD CASE(S) Standard

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

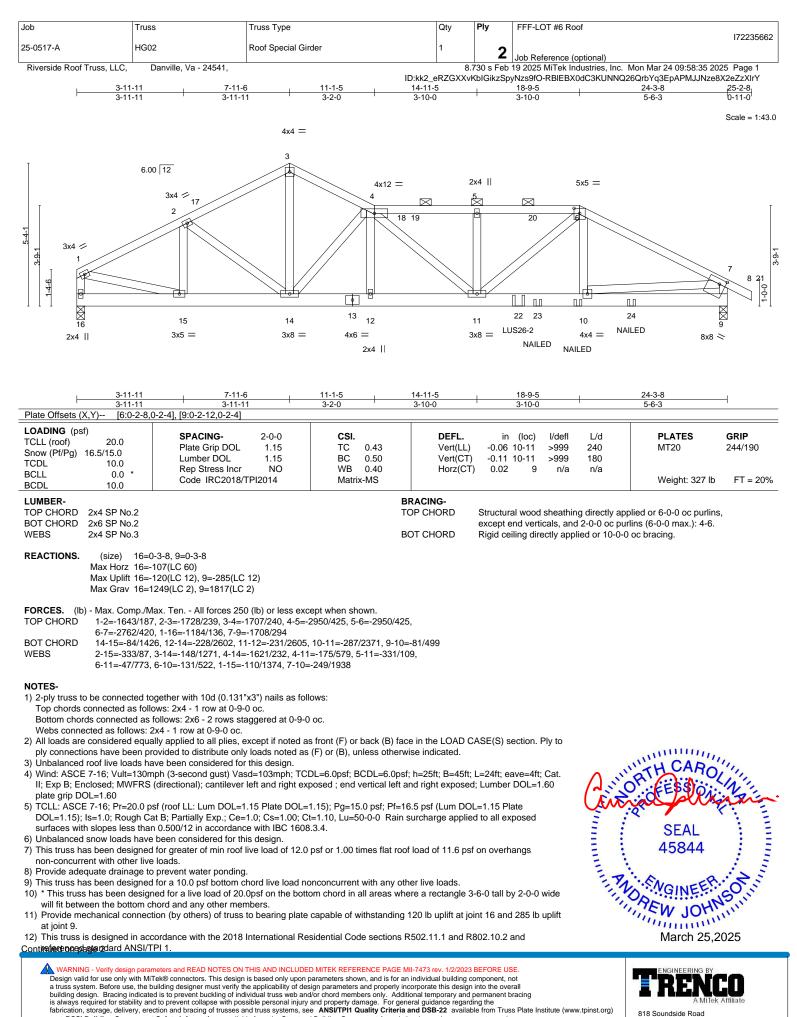
Uniform Loads (plf) Vert: 1-2=-43, 2-3=-53, 3-4=-43, 4-5=-43, 6-10=-20

Concentrated Loads (lb)

Vert: 8=-182(F) 7=-182(F) 12=-195(F) 13=-150(F) 14=-182(F) 15=-182(F) 16=-152(F) 17=-223(F)

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 outlapse 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)





and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Road

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FFF-LOT #6 Roof					
					172235662					
25-0517-A	HG02	Roof Special Girder	1	2						
				2	Job Reference (optional)					
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 09:58:35 2025 Page 2					
		ID:kk2_eRZGXXvKblGikzSpyNzs9fO-RBIEBX0dC3KUNNQ26QrbYq3EpAPMJJNze8X2eZzXlrY								

NOTES-

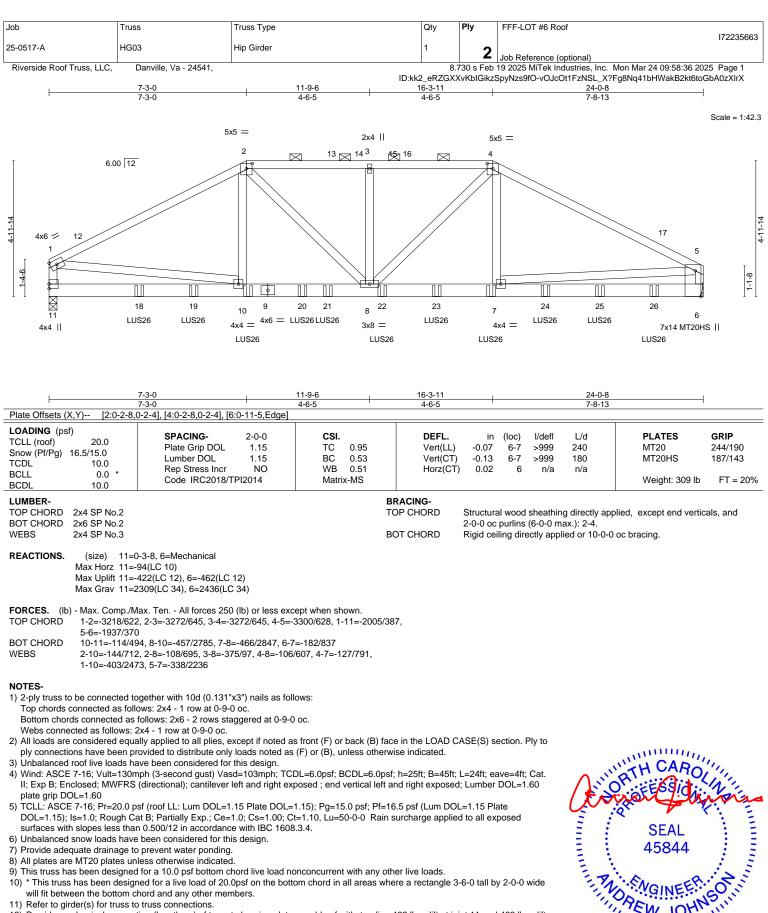
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie LUS26-2 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 16-6-0 from the left end to connect truss(es) to front face of bottom chord , skewed 0.0 deg to the right, sloping 0.0 deg. down.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) "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: 1-3=-43, 3-4=-43, 4-6=-53, 6-7=-43, 7-8=-43, 9-16=-20 Concentrated Loads (lb)
 - Vert: 10=-168(F) 22=-535(F) 23=-168(F) 24=-209(F)

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12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 422 lb uplift at joint 11 and 462 lb uplift at joint 6.

13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuiter product and 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) E RENCO

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March 25,2025

russ	Truss Type	Qty	Ply	FFF-LOT #6 Roof
				172235663
G03	Hip Girder	1	ົ	
			2	Job Reference (optional)
Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 09:58:36 2025 Page 2
	G03	G03 Hip Girder	G03 Hip Girder 1	G03 Hip Girder 1 2

ID:kk2_eRZGXXvKblGikzSpyNzs9fO-vOJcOt1FzNSL_X?Fg8Nq41bHWakB2kt6toGbA0zXlrX

NOTES-

- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 3-3-13 from the left end to connect truss(es) to back face of bottom chord.
 Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 5-3-12 from the left end to 22-2-15 to
- connect truss(es) to back face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.

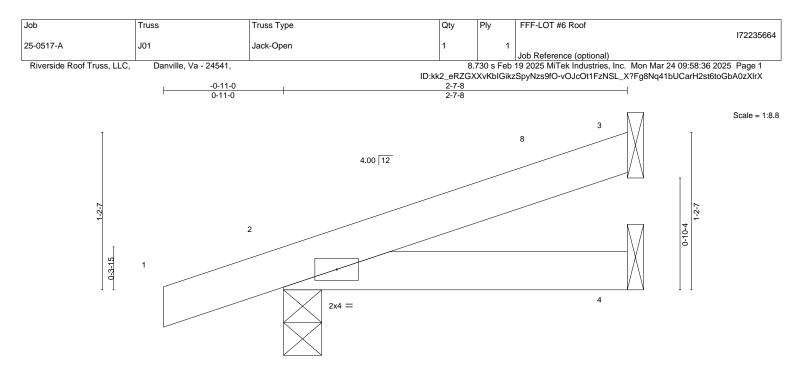
LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-43, 2-4=-53, 4-5=-43, 6-11=-20 Concentrated Loads (lb)

Vert: 10=-252(B) 7=-252(B) 18=-383(B) 19=-218(B) 20=-252(B) 21=-252(B) 22=-252(B) 23=-252(B) 24=-218(B) 25=-254(B) 26=-332(B)

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		4							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 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 0.07 BC 0.07 WB 0.00 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 -0.00	(loc) 7 7 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 10 lb	GRIP 244/190 FT = 20%

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

Structural wood sheathing directly applied or 2-7-8 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=38(LC 16) Max Uplift 3=-13(LC 16), 2=-37(LC 16)

Max Grav 3=69(LC 21), 2=192(LC 21), 4=44(LC 7)

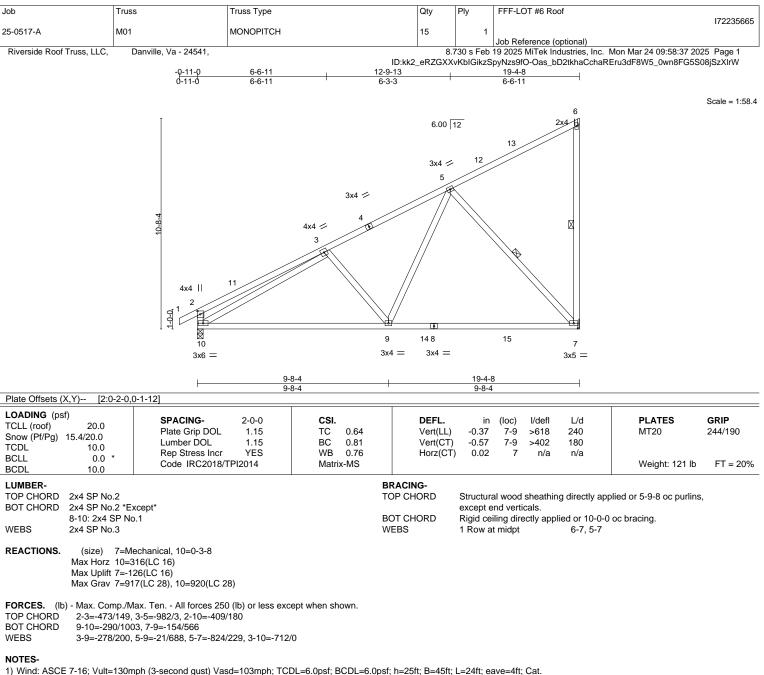
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- 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 2-6-12 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 3 and 37 lb uplift at joint 2.
- 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.



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 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; ICDL=6.0pst; BCDL=6.0pst; 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 19-2-12 zone; cantilever left and right exposed; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

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 15.4 psf on overhangs non-concurrent with other live loads.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

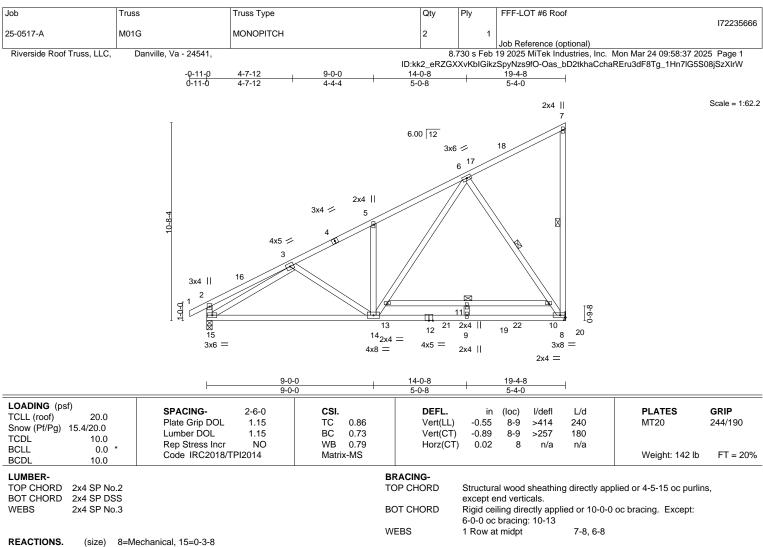
7) Refer to girder(s) for truss to truss connections.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 7.

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.



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EACTIONS. (size) 8=Mechanical, 15=0-3-8 Max Horz 15=395(LC 16) Max Uplift 8=-58(LC 16)

Max Grav 8=1488(LC 28), 15=1273(LC 28)

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

TOP CHORD 2-3=-375/98, 3-5=-1553/0, 5-6=-1572/13, 2-15=-368/160

BOT CHORD 14-15=-350/1462, 9-14=-99/749, 8-9=-99/749

- WEBS 5-14=-342/182, 13-14=-140/1135, 6-13=-67/1385, 6-10=-1070/252, 8-10=-1318/179,
 - 3-15=-1364/0

NOTES-

 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 19-2-12 zone; cantilever left and right exposed; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

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 15.4 psf on overhangs non-concurrent with other live loads.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

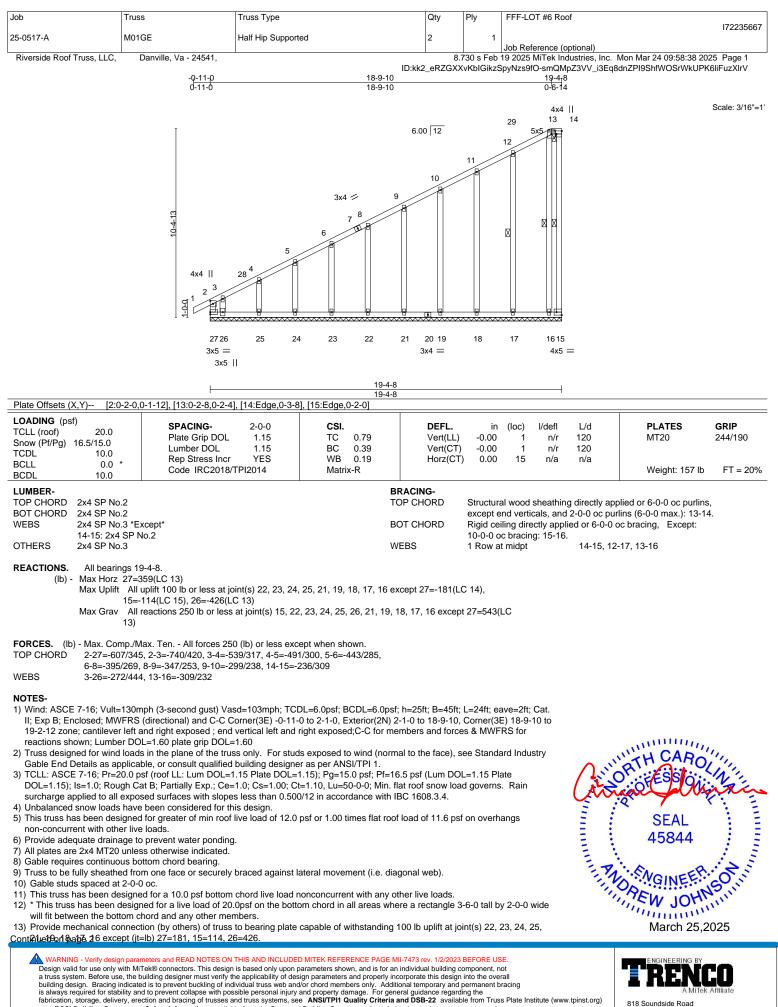
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

7) Refer to girder(s) for truss to truss connections.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 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.



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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	FFF-LOT #6 Roof				
					172235667				
25-0517-A	M01GE	Half Hip Supported	2	1					
					Job Reference (optional)				
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 09:58:38 2025 Page 2				
ID:kk2 eRZGXXvKbIGikzSpyNzs9fO-smQMpZ3VV i3Eq8dnZPI9ShfWOSrWkUPK6liFuzXIrV									

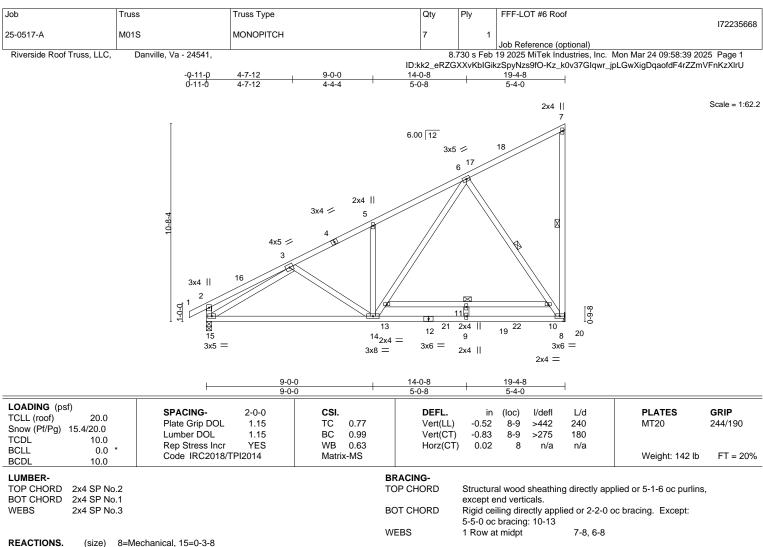
NOTES-

14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

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EACTIONS. (size) 8=Mechanical, 15=0-3-8 Max Horz 15=316(LC 16) Max Uplift 8=-46(LC 16)

Max Grav 8=1190(LC 28), 15=1018(LC 28)

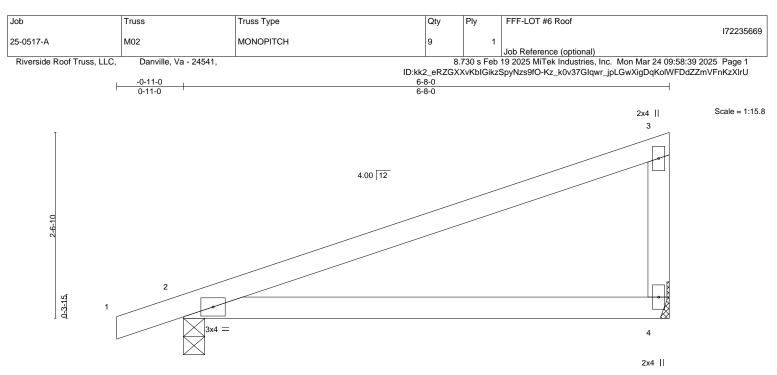
- FORCES. (lb) Max. Comp./Max. Ten. All forces 250 (lb) or less except when shown.
- TOP CHORD 2-3=-299/78, 3-5=-1243/0, 5-6=-1258/11, 2-15=-295/128
- BOT CHORD 14-15=-280/1169, 9-14=-79/597, 8-9=-79/597
- WEBS 5-14=-274/146, 13-14=-112/910, 6-13=-54/1107, 6-10=-855/202, 8-10=-1050/144, 3-15=-1092/0

NOTES-

- 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 19-2-12 zone; cantilever left and right exposed; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; 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=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



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			6-8-0 6-8-0					
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 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 0.79 BC 0.61 WB 0.00		oc) I/defl 1-7 >696 1-7 >358 2 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP				Weight: 25 lb	FT = 20%	
LUMBER- BRACING-								

TOP CHORD 2x4 SP No 2

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

BOT 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.

REACTIONS. 4=Mechanical, 2=0-3-8 (size) Max Horz 2=81(LC 15) Max Uplift 4=-16(LC 16), 2=-45(LC 16) Max Grav 4=303(LC 21), 2=340(LC 21)

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

NOTES-

- 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) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-6-4 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 6) will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 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.

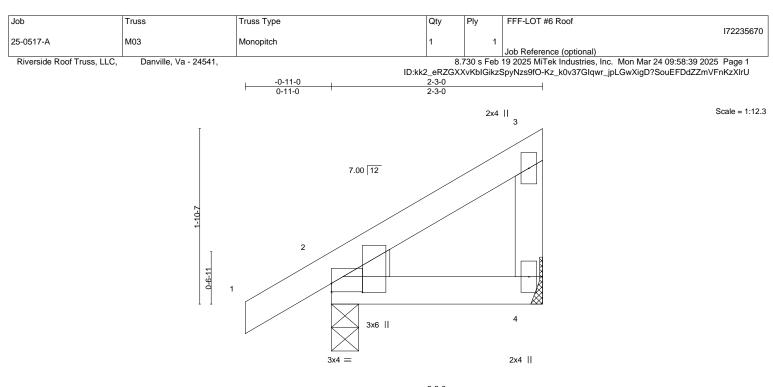


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design that the operating of the second se and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road

Edenton, NC 27932



2-3-0
2-3-0

BOT CHORD

except end verticals.

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

Plate Offsets (X,Y) [2:0-0-0,0)-1-1], [2:0-1-2,0-4-0]		200						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.07 BC 0.06 WB 0.00 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.00	(loc) 7 7 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 12 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2			RACING- OP CHORD	Structura	al wood	sheathir	ng directly ap	plied or 2-3-0 oc purlir	ıs,

⊢

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

WEBS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 4=Mechanical, 2=0-3-8

Max Horz 2=57(LC 15) Max Uplift 4=-13(LC 13), 2=-38(LC 16) Max Grav 4=85(LC 21), 2=184(LC 21)

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

NOTES-

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) 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 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.

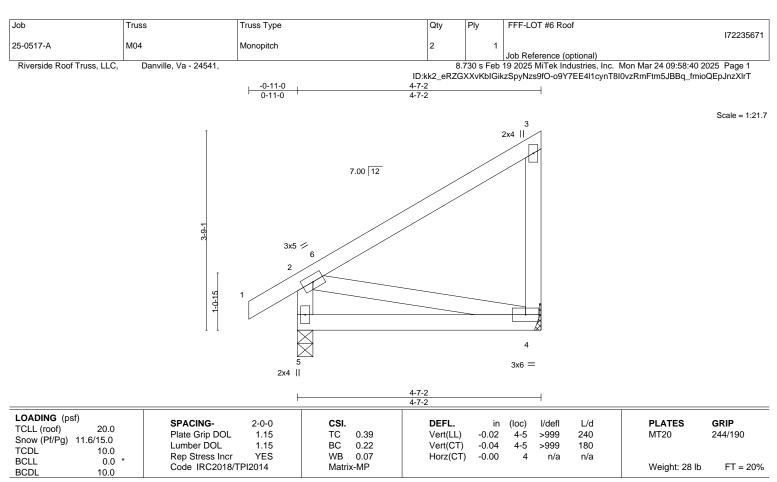


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818 Soundside Road

Edenton, NC 27932



LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

BRACING-

 TOP CHORD
 Structural wood sheathing directly applied or 4-7-2 oc purlins, except end verticals.

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

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=124(LC 13) Max Uplift 5=-37(LC 16), 4=-38(LC 13) Max Grav 5=244(LC 2), 4=188(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. BOT CHORD 4-5=-275/168

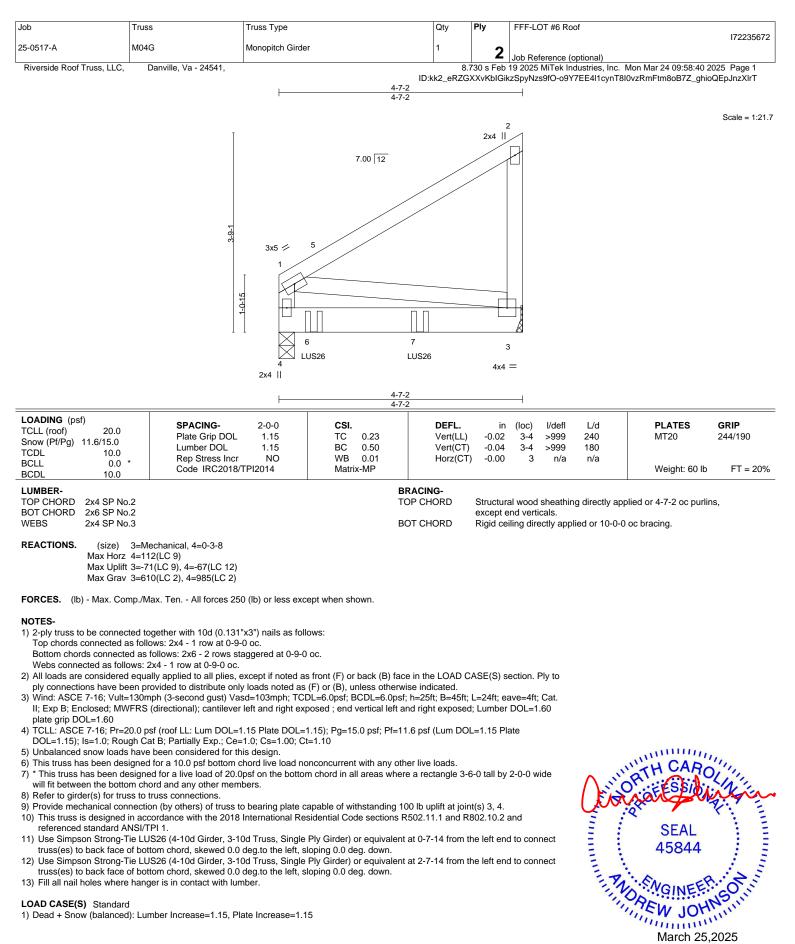
NOTES-

- 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 4-5-6 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.



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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	FFF-LOT #6 Roof
					172235672
25-0517-A	M04G	Monopitch Girder	1	2	
				2	Job Reference (optional)
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 09:58:40 2025 Page 2

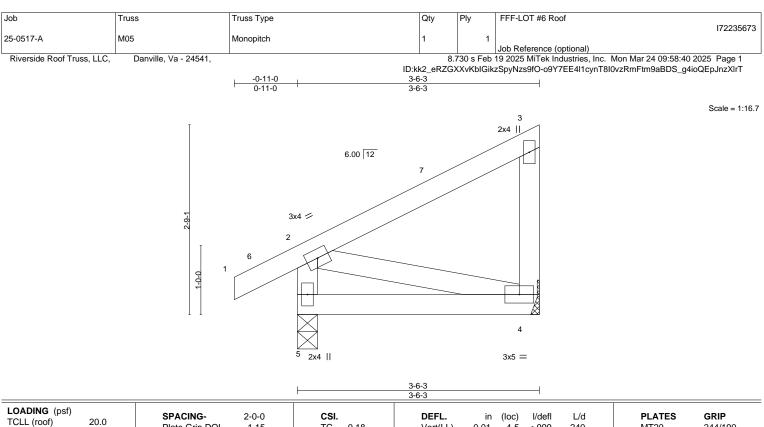
ID:kk2_eRZGXXvKbIGikzSpyNzs9fO-o9Y7EE4I1cynT8I0vzRmFtm8oB7Z_ghioQEpJnzXIrT

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-2=-43, 3-4=-20 Concentrated Loads (lb) Vert: 6=-529(B) 7=-524(B)

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TCDL	20.0 1.6/15.0 10.0	SPACING- 2-0 Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YE	5 TC 5 BC	0.18 0.12	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 -0.00	(loc) 4-5 4-5 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 * 10.0	Code IRC2018/TPI2014	-	trix-MP						Weight: 21 lb	FT = 20%
				_							

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

BRACING-

 TOP CHORD
 Structural wood sheathing directly applied or 3-6-3 oc purlins, except end verticals.

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

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=89(LC 13)

Max Uplift 5=-38(LC 16), 4=-25(LC 13) Max Grav 5=205(LC 21), 4=129(LC 21)

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

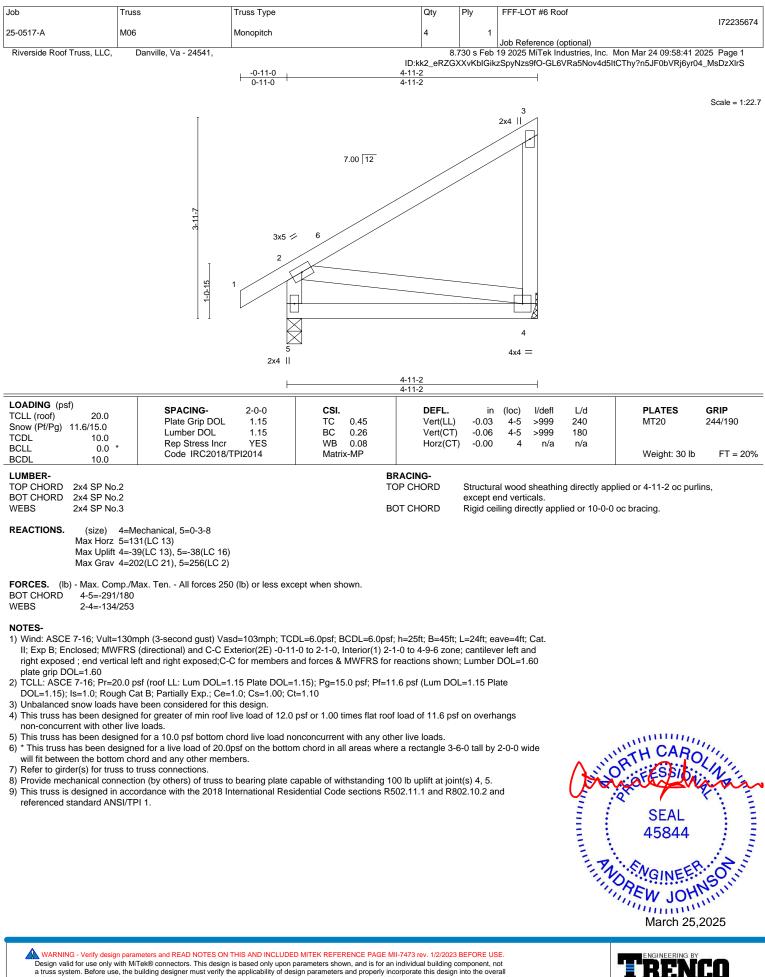
NOTES-

- 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 3-4-7 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 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.



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A MiTek) 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FFF-LOT #6 Roof
05 0547 4					172235675
25-0517-A	M07	Monopitch	6	1	Job Reference (optional)
Riverside Roof Truss, LLC,	Danville, Va - 24541,	ID: +-0-11-0 + 6-8-8 0-11-0 + 6-8-8			19 2025 MiTek Industries, Inc. Mon Mar 24 09:58:41 2025 Page 1 vzSpyNzs9fO-GL6VRa5Nov4d5ItCThy?n5J9obRDj5zr04_MsDzXIrS
	I				2x4 Scale = 1:30.2
		7.00 12			
	4-11-14	6 3x5 ≠			
	1-0-15				
		5 2x4			4x4 =

		\vdash			6-8-8 6-8-8						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES 12014	CSI. TC BC WB Matriz	0.85 0.53 0.14 x-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.10 -0.20 -0.00	(loc) 4-5 4-5 4	l/defl >757 >379 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 40 lb	GRIP 244/190 FT = 20%

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 9-6-6 oc bracing.

REACTIONS. (size) 4=Mechanical, 5=0-3-8 Max Horz 5=168(LC 13) Max Uplift 4=-46(LC 13), 5=-40(LC 16) Max Grav 4=272(LC 21), 5=326(LC 2)

2-5=-262/175

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

TOP CHORD

WEBS 2-4=-174/301

NOTES-

- 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 6-6-12 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; 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.

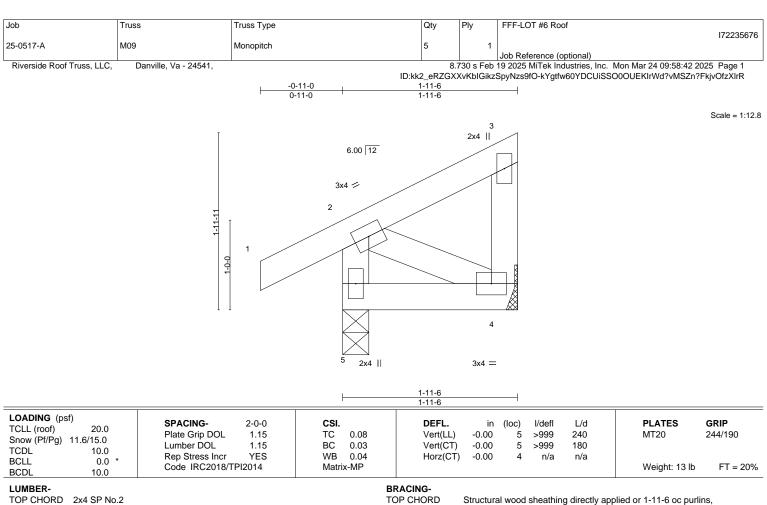
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Refer to girder(s) for truss to truss connections.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 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.



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

TOP CHORD

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

REACTIONS. (size) 5=0-3-8, 4=Mechanical Max Horz 5=62(LC 13)

Max Uplift 5=-38(LC 16), 4=-25(LC 13) Max Grav 5=153(LC 21), 4=55(LC 28)

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

NOTES-

- 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) 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
- 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.
- 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 6) 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 100 lb uplift at joint(s) 5, 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.



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Edenton, NC 27932

lob	Truss	Truss Type		Qty	Ply	FFF-LOT #6 Roof		17000507
25-0517-A	M10	Monopitch		2	1			17223567
						Job Reference (optiona	al)	
Riverside Roof Truss, LLC,	Danville, Va - 24541,						es, Inc. Mon Mar 24 09:58:42 DCUiSSO0OUEKIrVG?uESZ	
		L	3-3	3-1		25py1125910-k1 gtiw001		
			3-3	3-1	1			
								Scale = 1:18
		т		_	2			
			6.00 12	2	x4			
			/					
		3x4 🖈						
		1						
			\times					
			\times					
		ų						
		1-4-6						
			1					
		K	×		3			
			×4		o			
		7 2	x4		3x4 =			
		H	3-3					
.OADING (psf)								
CLL (roof) 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.16	DEFL. Vert(LL)	in -0.00-	(loc) I/defl L/d 3-4 >999 240		GRIP 244/190
Snow (Pf/Pg) 11.6/15.0	Lumber DOL	1.15	BC 0.10	Vert(CT)		3-4 >999 240		244/190
TCDL 10.0 BCLL 0.0	* Rep Stress Incl	YES	WB 0.05	Horz(CT		3 n/a n/a	a	
BCDL 10.0	Code IRC2018	/TPI2014	Matrix-MP				Weight: 20 lb	FT = 209
UMBER-			F	BRACING-			1	
TOP CHORD 2x4 SP N				TOP CHORD			ctly applied or 3-3-1 oc purl	ins,
SOT CHORD 2x4 SP N			_		except e	nd verticals.		
WEBS 2x4 SP N	0.3		E	BOT CHORD	Rigid ce	iling directly applied or	10-0-0 oc bracing.	

Max Uplift 4=-1(LC 16), 3=-34(LC 13) Max Grav 4=123(LC 28), 3=126(LC 27)

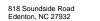
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

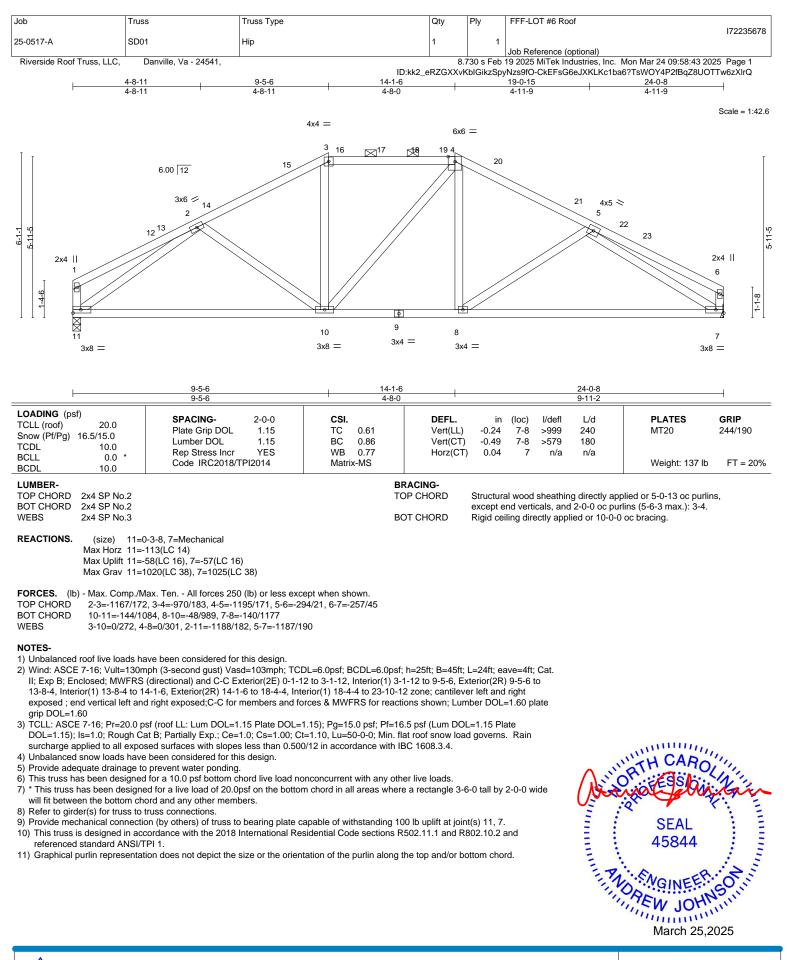
NOTES-

- 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
- 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 3.
- 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.



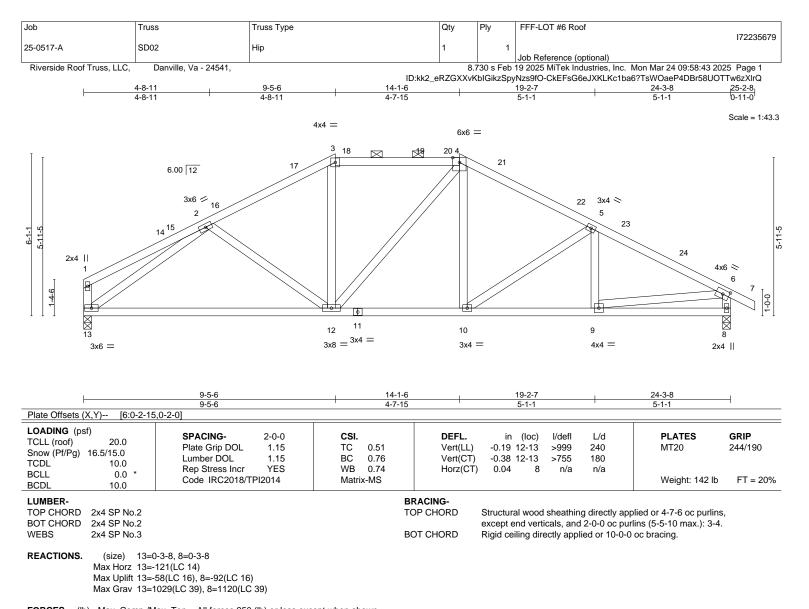
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/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)





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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1187/168, 3-4=-987/179, 4-5=-1201/184, 5-6=-1509/159, 6-8=-1068/166

BOT CHORD 12-13=-106/1099, 10-12=-23/994, 9-10=-67/1277

WEBS 3-12=0/281, 4-10=0/260, 5-10=-336/70, 2-13=-1210/177, 6-9=-51/1103

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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-5-6, Exterior(2R) 9-5-6 to 13-8-5, Interior(1) 13-8-5 to 14-1-6, Exterior(2R) 14-1-6 to 18-4-4, Interior(1) 18-4-4 to 25-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 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; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

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

5) 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) Provide adequate drainage to prevent water ponding.

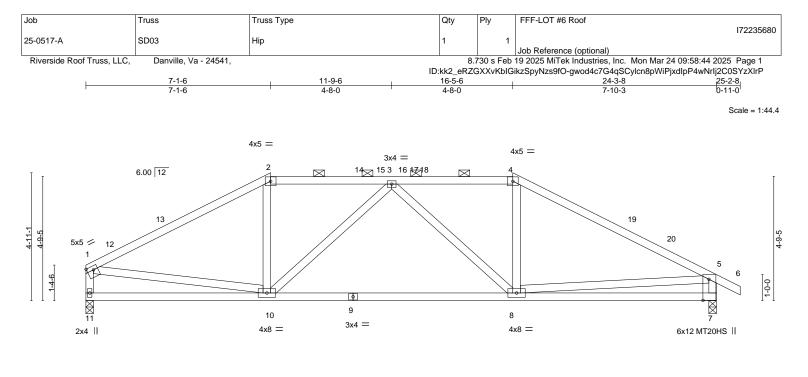
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 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.

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



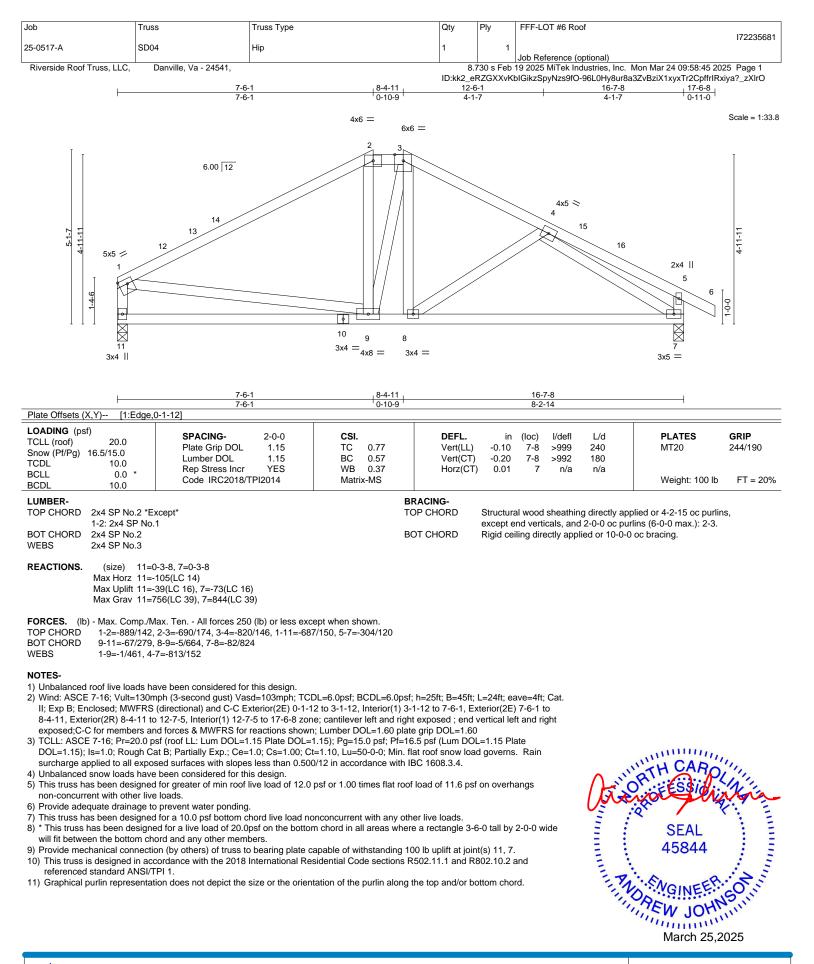
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	7-1-6	<u> </u>		24-3-8 7-10-3				
Plate Offsets (X,Y) [1:Edge,	0-1-12], [7:0-9-12,0-2-12]	3-5-15		1-10-5				
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 16.5/15.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. DEFL TC 0.96 Vert(I BC 0.78 Vert(C WB 0.39 Horz(Matrix-MS Horz(Horz(L) -0.15 8-10 >99 CT) -0.32 8-10 >90	19 240 1 11 180 1 /a n/a	PLATES GRIP MT20 244/190 MT20HS 187/143 Weight: 131 lb FT = 20%			
LUMBER-		BRACING-						
TOP CHORD 2x4 SP No.2 *E 1-2: 2x4 SP No. 1-2: 2x4 SP No. BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 *E 5-7: 2x4 SP No.	1 xcept*	TOP CHORD BOT CHORD	2-0-0 oc purlins (5-3-	thing directly applied, ex 12 max.): 2-4. applied or 10-0-0 oc brac	•			
Max Horz 11=- Max Uplift 11=-	D-3-8, 7=0-3-8 -102(LC 14) -58(LC 16), 7=-92(LC 16) 959(LC 2), 7=1025(LC 2)							
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1315/140, 2-3=-1096/163, 3-4=-1156/170, 4-5=-1403/144, 1-11=-901/130, 5-7=-959/179 BOT CHORD 10-11=-52/257, 8-10=-78/1279, 7-8=-133/571 WEBS 2-10=0/310, 3-10=-337/70, 3-8=-268/80, 4-8=0/337, 1-10=-18/932, 5-8=0/807								
 Wind: ASCE 7-16; Vult=130n II; Exp B; Enclosed; MWFRS 11-4-5, Interior(1) 11-4-5 to 1 end vertical left and right exp DOL=1.60 TCLL: ASCE 7-16; Pr=20.0 p DOL=1.15; Is=1.0; Rough C surcharge applied to all expo 4) Unbalanced snow loads have This truss has been designed non-concurrent with other live Provide adequate drainage to 7 All plates are MT20 plates un 8) This truss has been designed will fit between the bottom ch Provide mechanical connect 1) This truss is designed in act referenced standard ANSI/T 	o prevent water ponding. Iless otherwise indicated. I for a 10.0 psf bottom chord live load n ed for a live load of 20.0psf on the botto ord and any other members. tion (by others) of truss to bearing plate cordance with the 2018 International Re	12 to 3-1-12, Interior(1) 3-1-12 to 7-1-6 terior(1) 20-8-4 to 25-2-8 zone; cantilev WFRS for reactions shown; Lumber DC (1.15); Pg=15.0 psf; Pf=16.5 psf (Lum I t=1.10, Lu=50-0-0; Min. flat roof snow 0/12 in accordance with IBC 1608.3.4. It psf or 1.00 times flat roof load of 11.6 onconcurrent with any other live loads. m chord in all areas where a rectangle capable of withstanding 100 lb uplift a scidential Code sections R502.11.1 and	, Exterior(2R) 7-1-6 to er left and right exposed DL=1.60 plate grip DOL=1.15 Plate load governs. Rain psf on overhangs 3-6-0 tall by 2-0-0 wide t joint(s) 11, 7. d R802.10.2 and	Orise Holder	SEAL 45844 GINEERSON W JOHNSON March 25,2025			

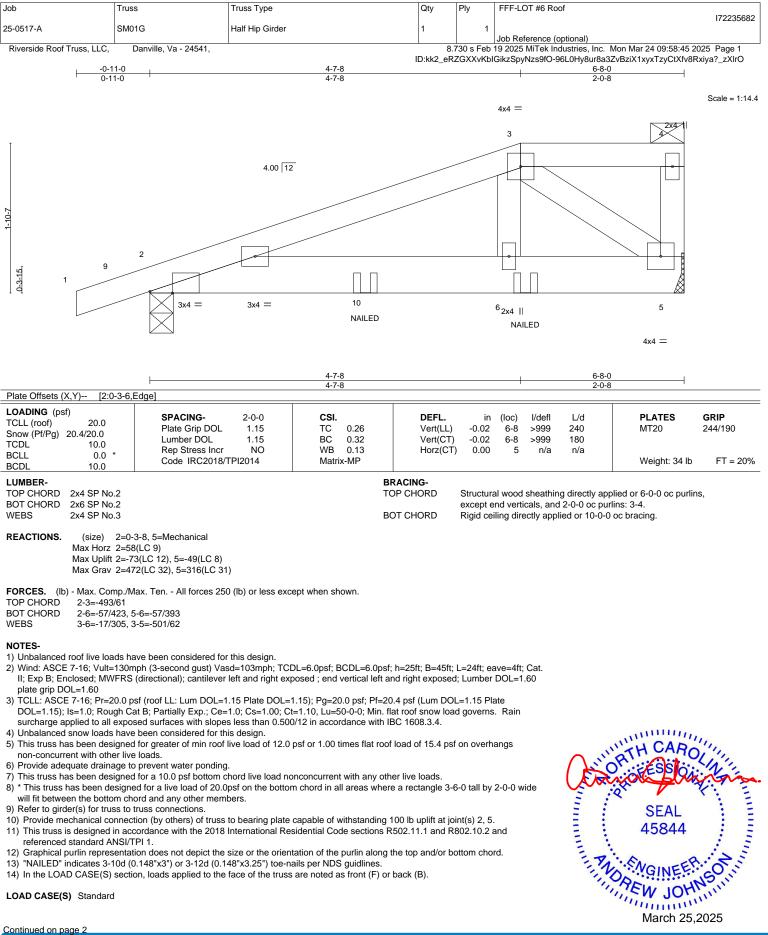
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A MiTek Affi



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Job	Truss	Truss Type	Qty	Ply	FFF-LOT #6 Roof
					172235682
25-0517-A	SM01G	Half Hip Girder	1	1	
					Job Reference (optional)
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 09:58:45 2025 Page 2

ID:kk2_eRZGXXvKbIGikzSpyNzs9fO-96L0Hy8ur8a3ZvBziX1xyxTzyCtXfv8Rxiya?_zXIrO

LOAD CASE(S) Standard

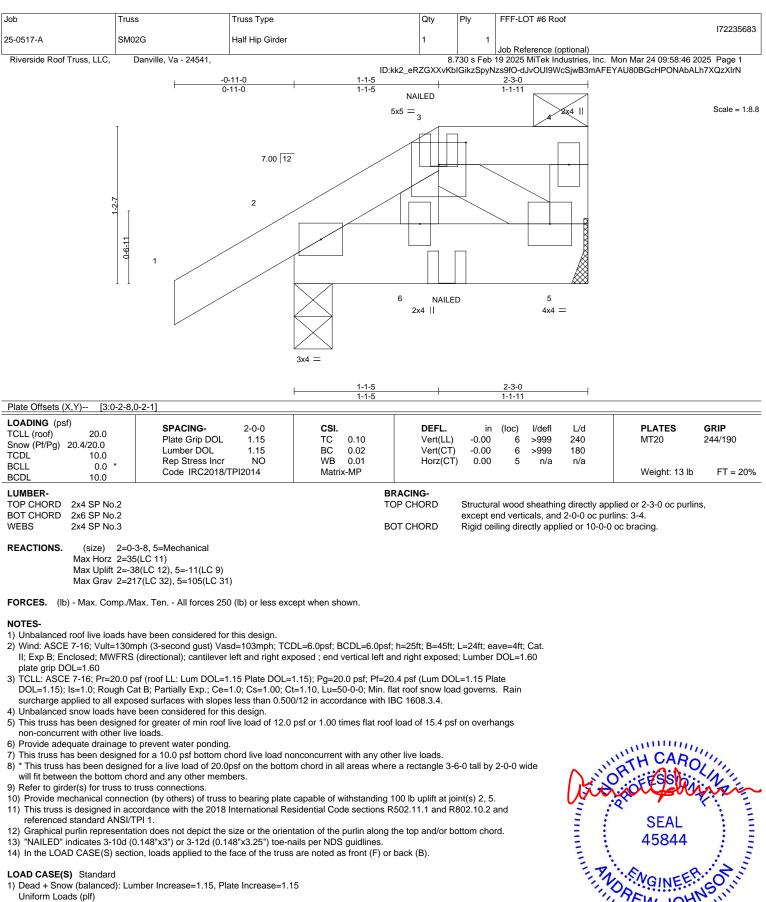
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-3=-51, 3-4=-61, 2-5=-20 Concentrated Loads (lb)

Vert: 6=-65(B) 10=-85(B)

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

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-51, 3-4=-61, 5-7=-20

Continued on page 2

🔺 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 bilding 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)



mm March 25,2025

Job	Truss	Truss Type	Qty	Ply	FFF-LOT #6 Roof
					172235683
25-0517-A	SM02G	Half Hip Girder	1	1	
					Job Reference (optional)
Riverside Roof Truss, LLC,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 09:58:46 2025 Page 2	

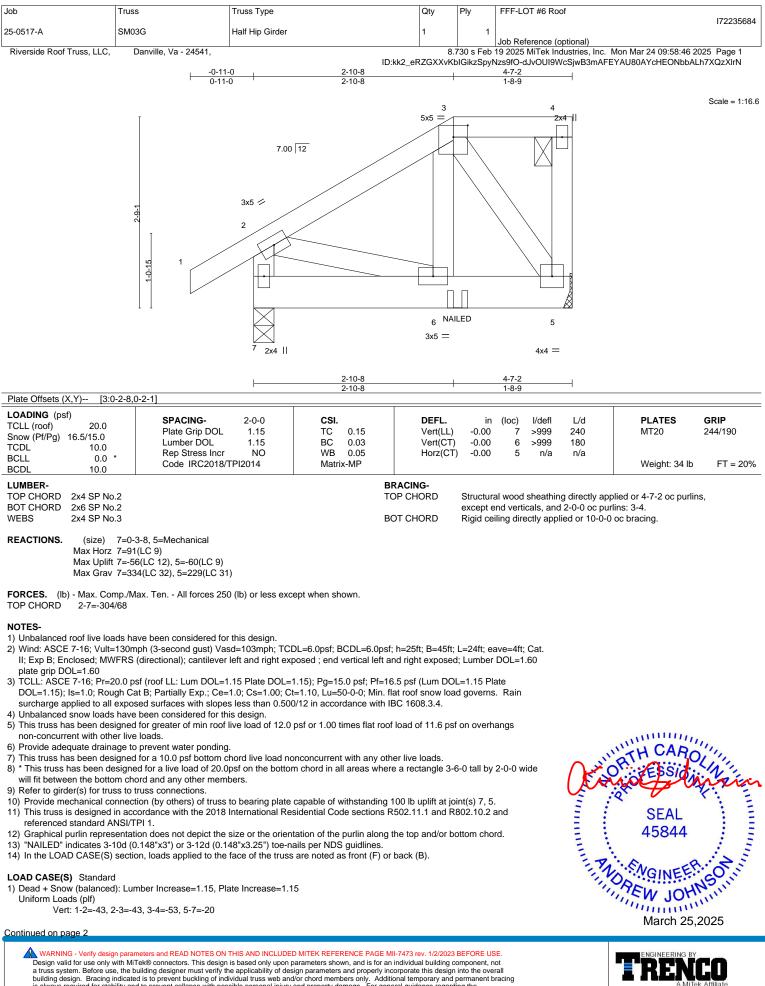
ID:kk2_eRZGXXvKbIGikzSpyNzs9fO-dJvOUI9WcSjwB3mAFEYAU80BGcHPONAbALh7XQzXIrN

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 6=-16(F) 3=-15(F)

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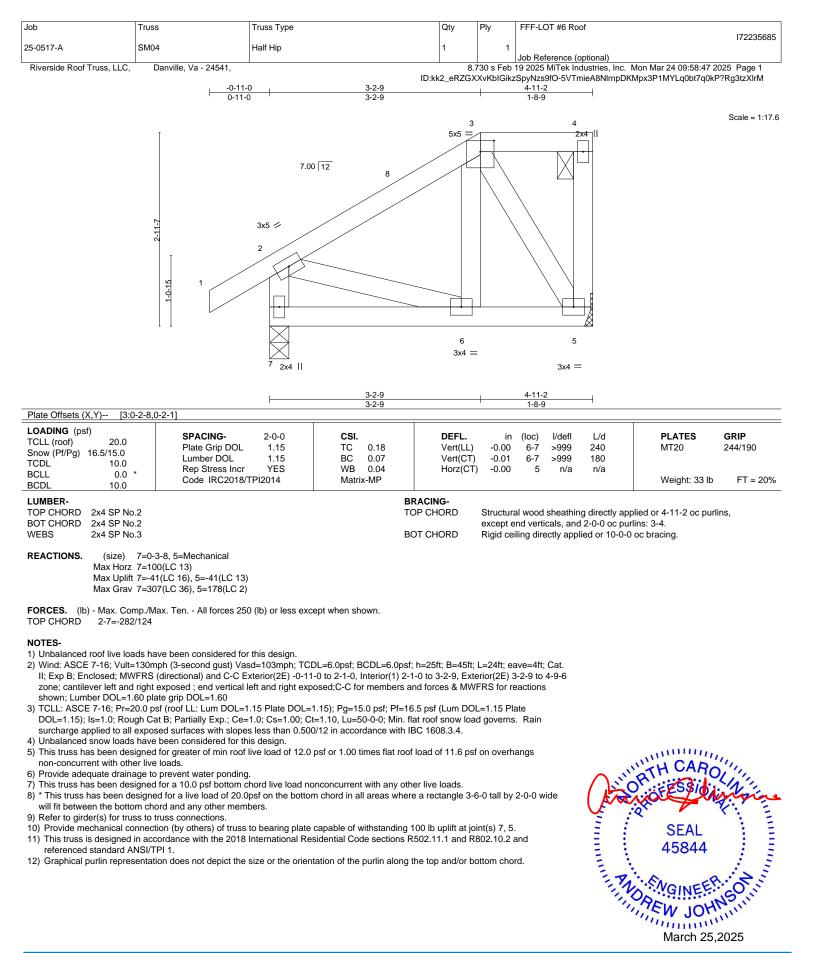
Job	Truss	Truss Type	Qty	Ply	FFF-LOT #6 Roof
					172235684
25-0517-A	SM03G	Half Hip Girder	1	1	
					Job Reference (optional)
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 09:58:46 2025 Page 2

ID:kk2_eRZGXXvKbIGikzSpyNzs9fO-dJvOUI9WcSjwB3mAFEYAU80AYcHEONbbALh7XQzXIrN

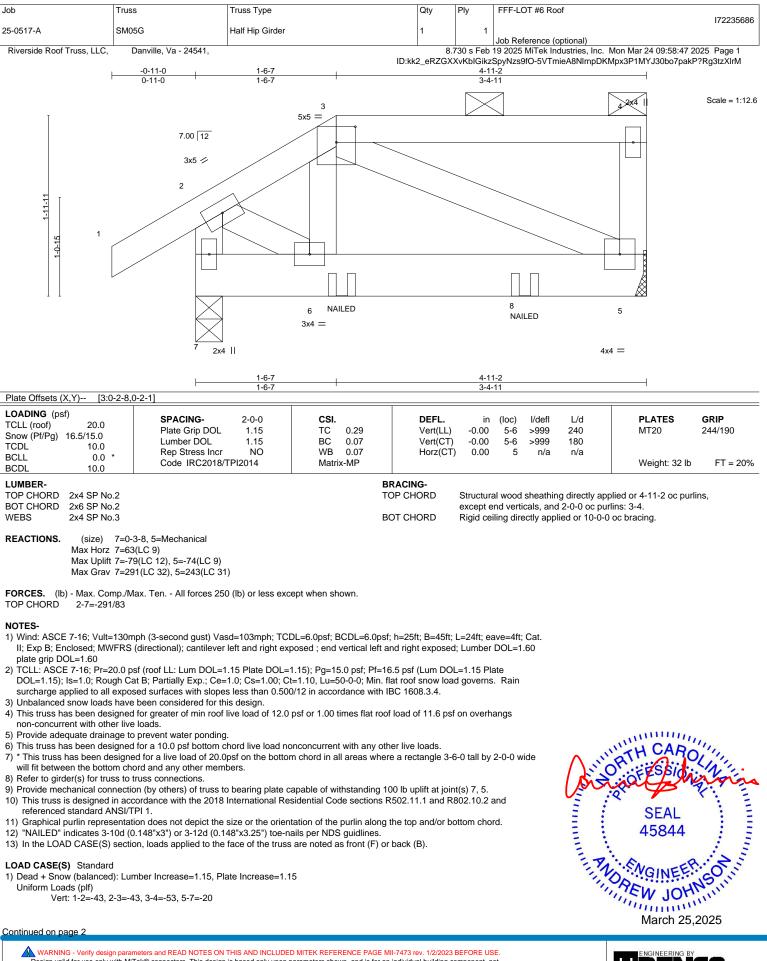
LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 6=-109(F)

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Job	Truss	Truss Type	Qty	Ply	FFF-LOT #6 Roof
					172235686
25-0517-A	SM05G	Half Hip Girder	1	1	
					Job Reference (optional)
Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 09:58:48 2025 Page 2					

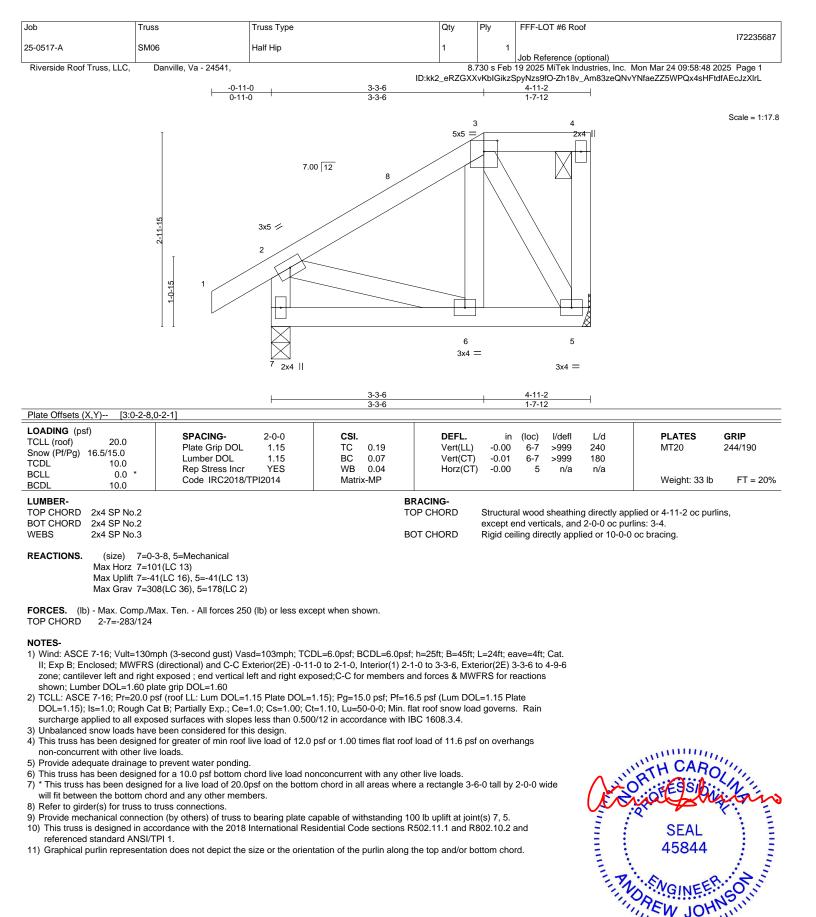
ID:kk2_eRZGXXvKblGikzSpyNzs9fO-Zh18v_Am83zeQNvYNfaeZZ5UpQx1sGqtdfAEcJzXlrL

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 6=-29(F) 8=-29(F)

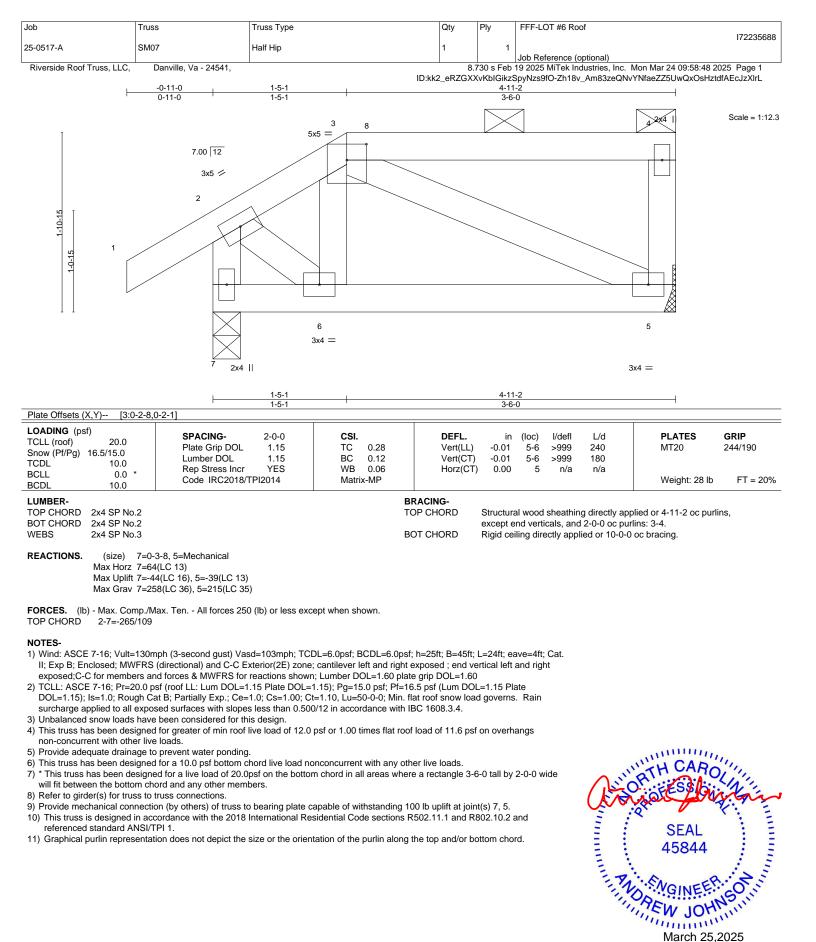
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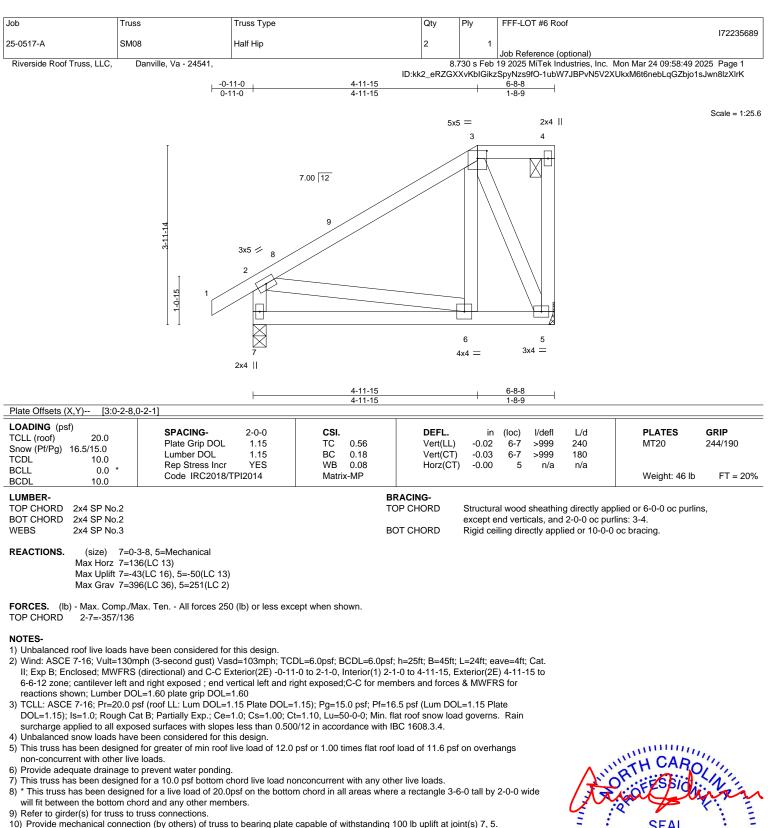


818 Soundside Road Edenton, NC 27932

March 25,2025



TRENCO AMITEK Affiliate

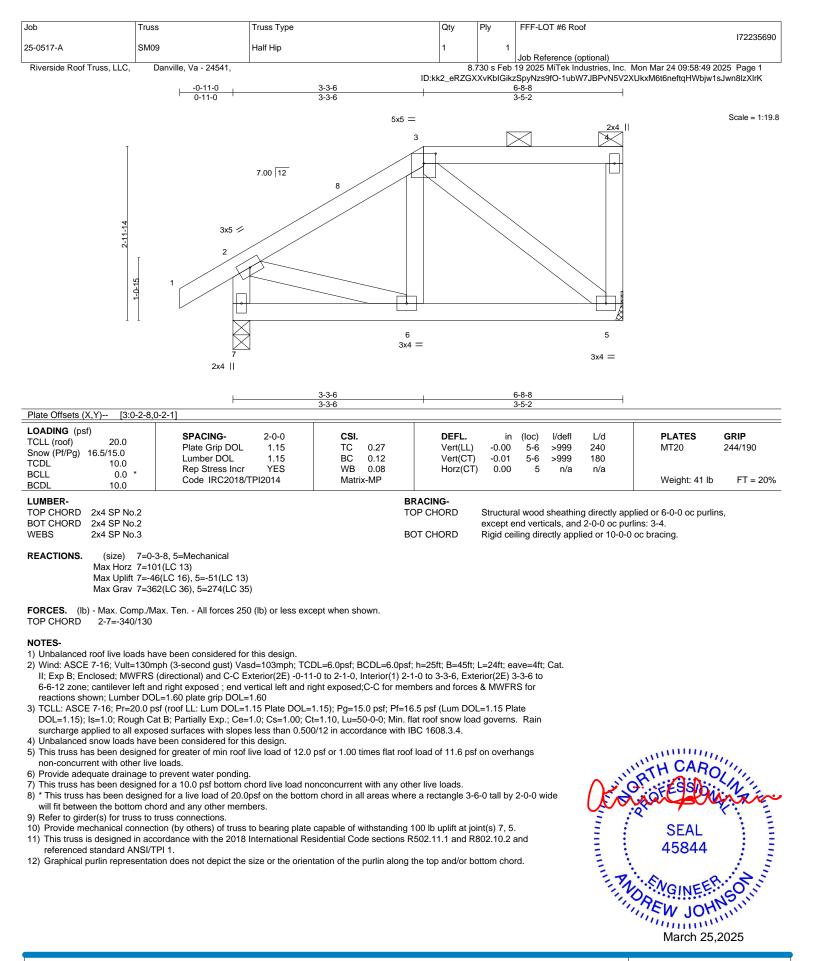


 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

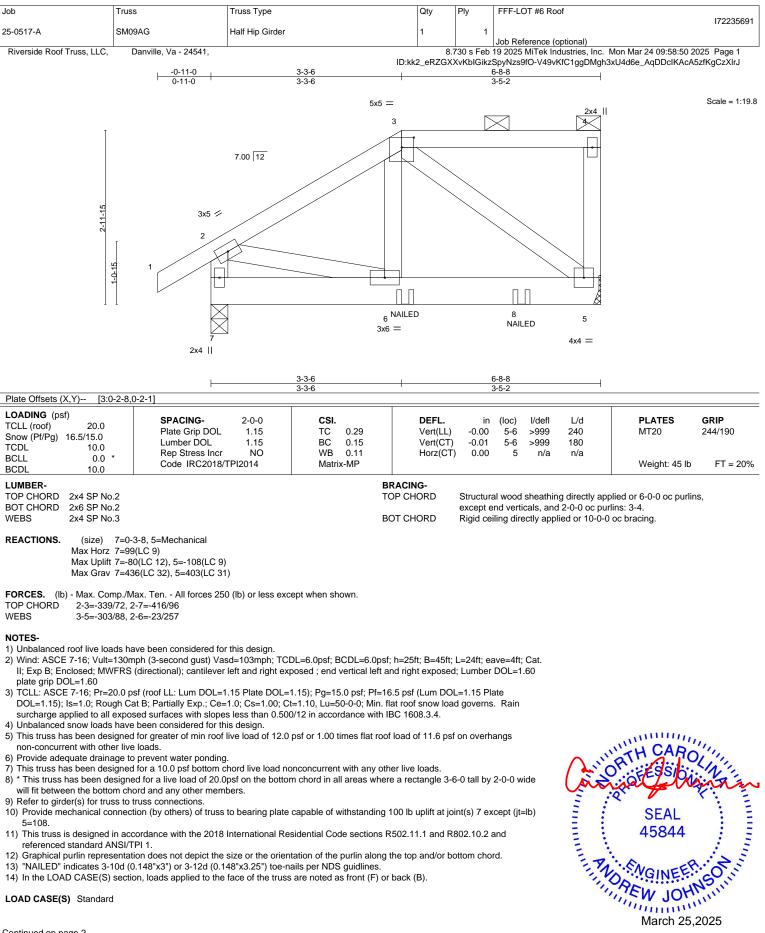
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

SEAL 45844

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.sbcaccomponents.com)



A MiTek



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	FFF-LOT #6 Roof
					172235691
25-0517-A	SM09AG	Half Hip Girder	1	1	
					Job Reference (optional)
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 09:58:50 2025 Page 2

ID:kk2_eRZGXXvKblGikzSpyNzs9fO-V49vKfC1ggDMgh3xU4d6e_AqDDclKAcA5zfKgCzXlrJ

LOAD CASE(S) Standard

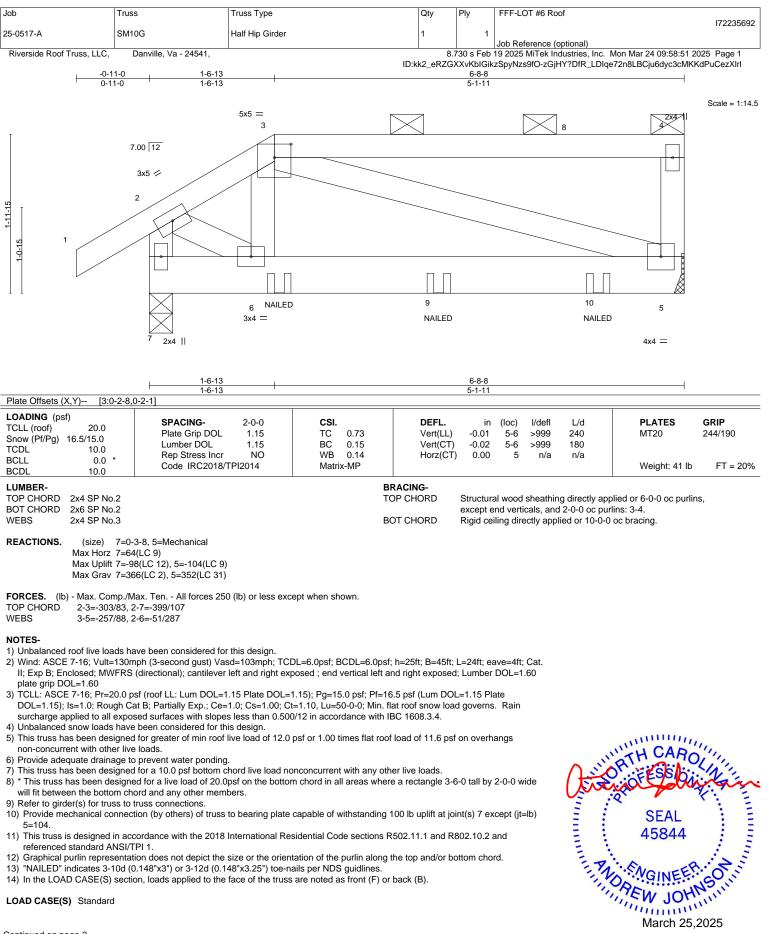
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-2=-43, 2-3=-43, 3-4=-53, 5-7=-20 Concentrated Loads (lb)

Vert: 6=-101(F) 8=-101(F)

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	FFF-LOT #6 Roof
					172235692
25-0517-A	SM10G	Half Hip Girder	1	1	
					Job Reference (optional)
Riverside Roof Truss, LLC, Danville, Va - 24541, 8.730 s Feb 19 2025 MiTek Industries, Inc. Mon Mar 24 09:58:51 2025 Page 2					

ID:kk2_eRZGXXvKblGikzSpyNzs9fO-zGjHY?DfR_LDIqe72n8LBCju6dyc3cMKKdPuCezXIrI

LOAD CASE(S) Standard

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

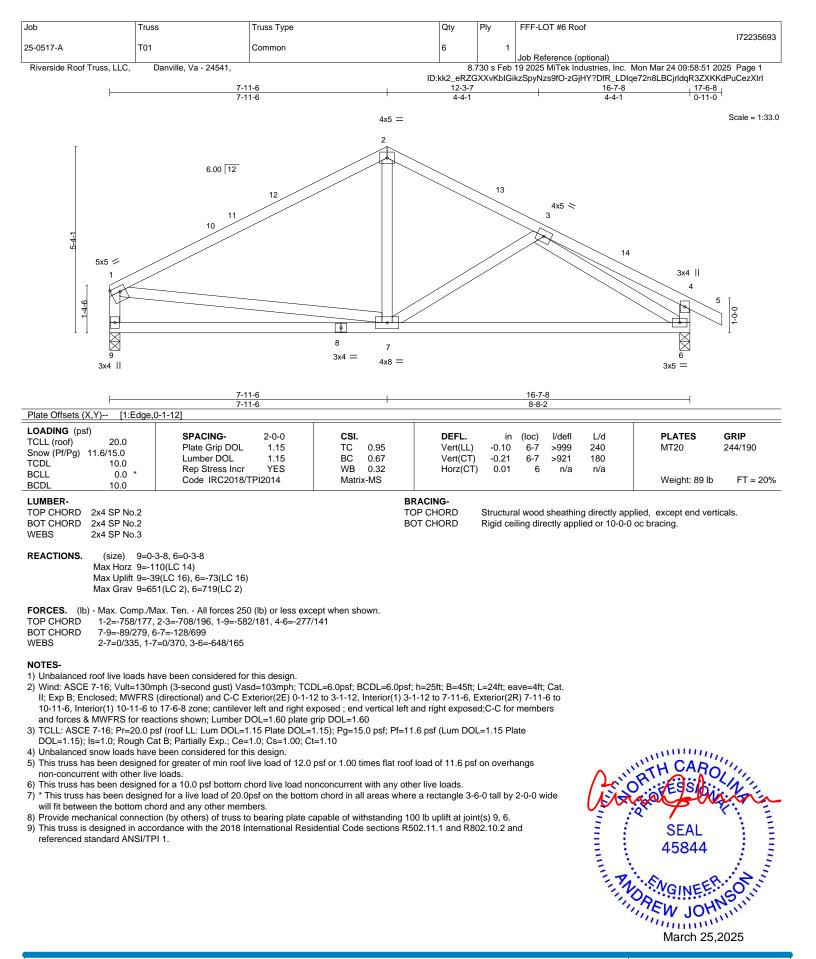
Uniform Loads (plf) Vert: 1-2=-43, 2-3=-43, 3-4=-53, 5-7=-20

Concentrated Loads (lb)

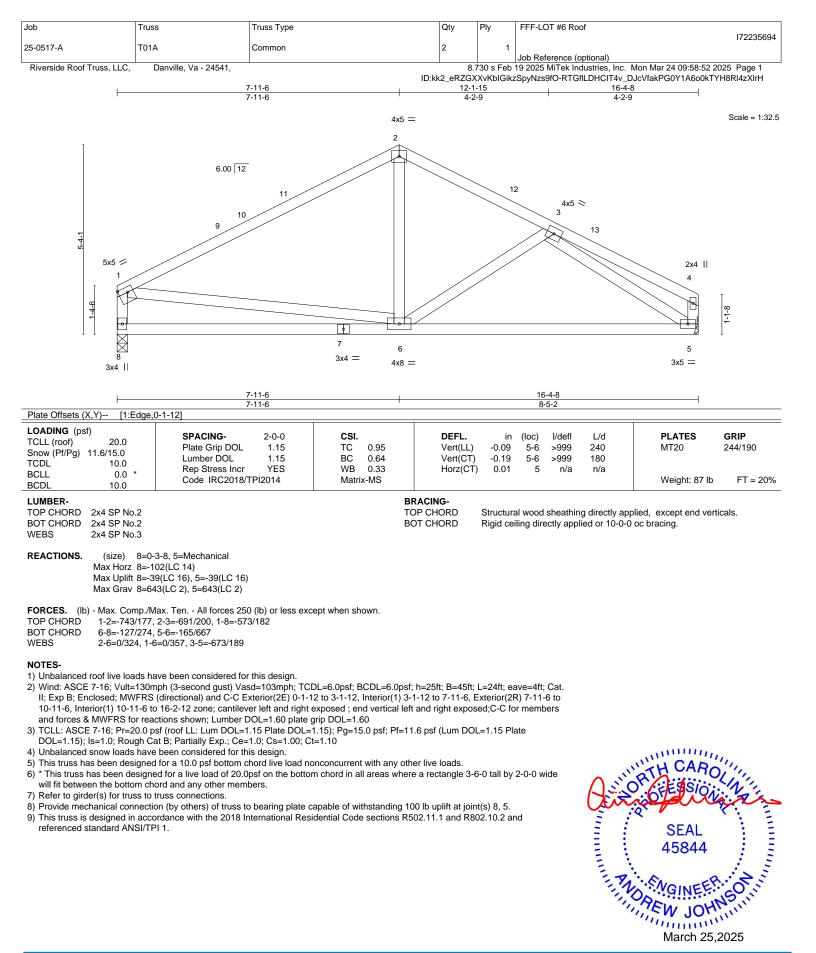
Vert: 6=-29(B) 9=-29(B) 10=-30(B)

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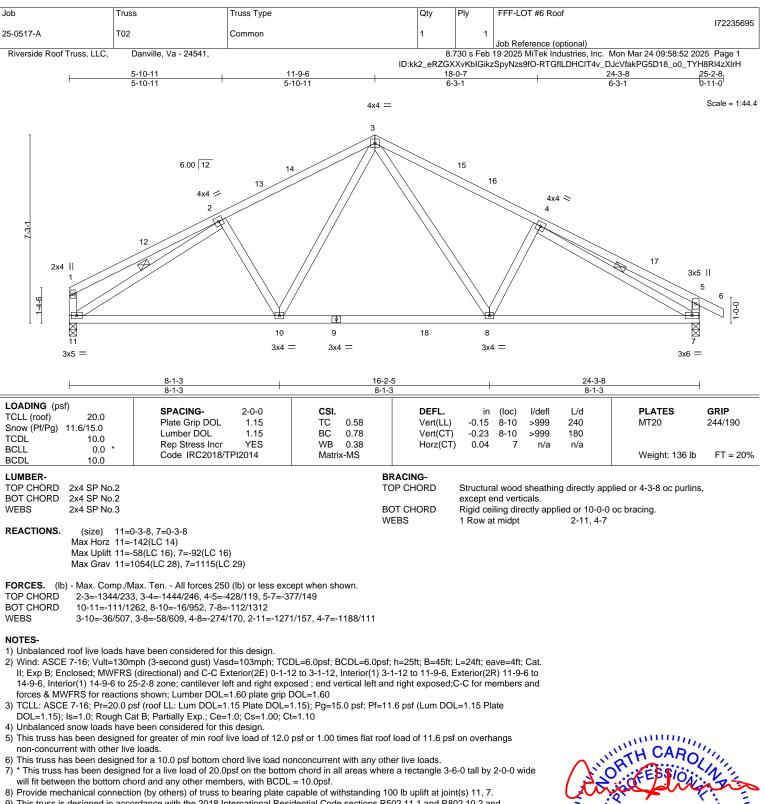
TRENCO





818 Soundside Road

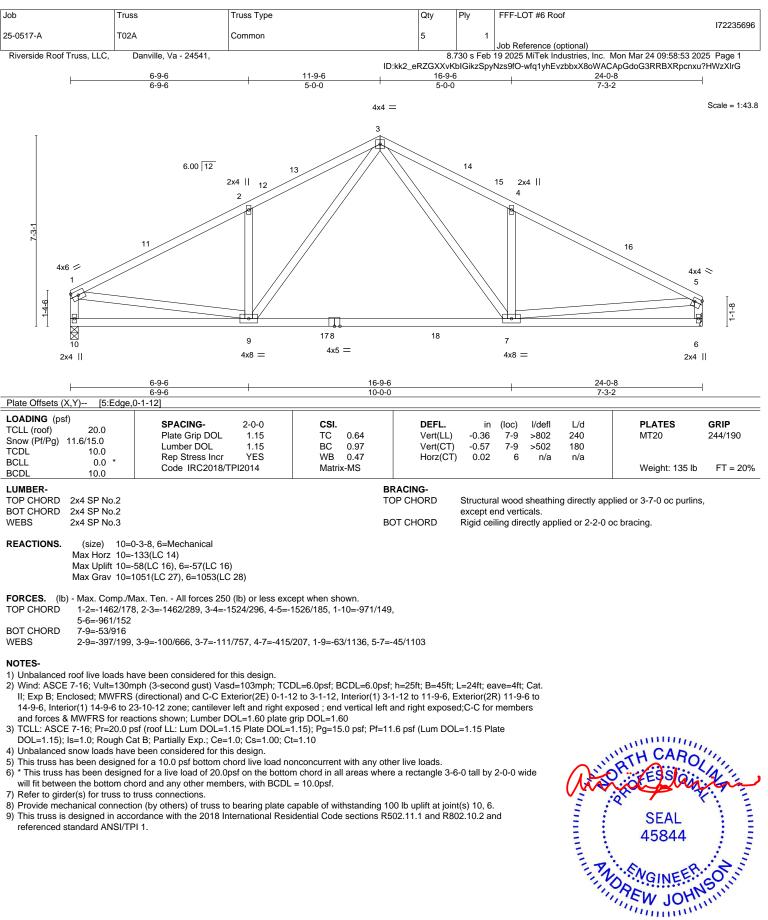
Edenton, NC 27932



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.



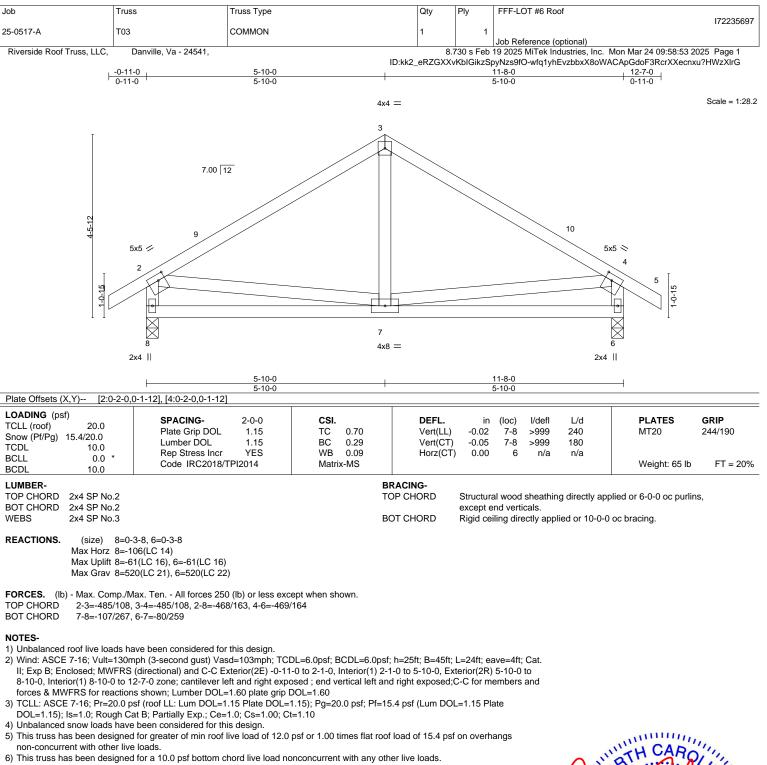
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March 25,2025

TERGINEERING BY RENCO A MI Tek Affiliate

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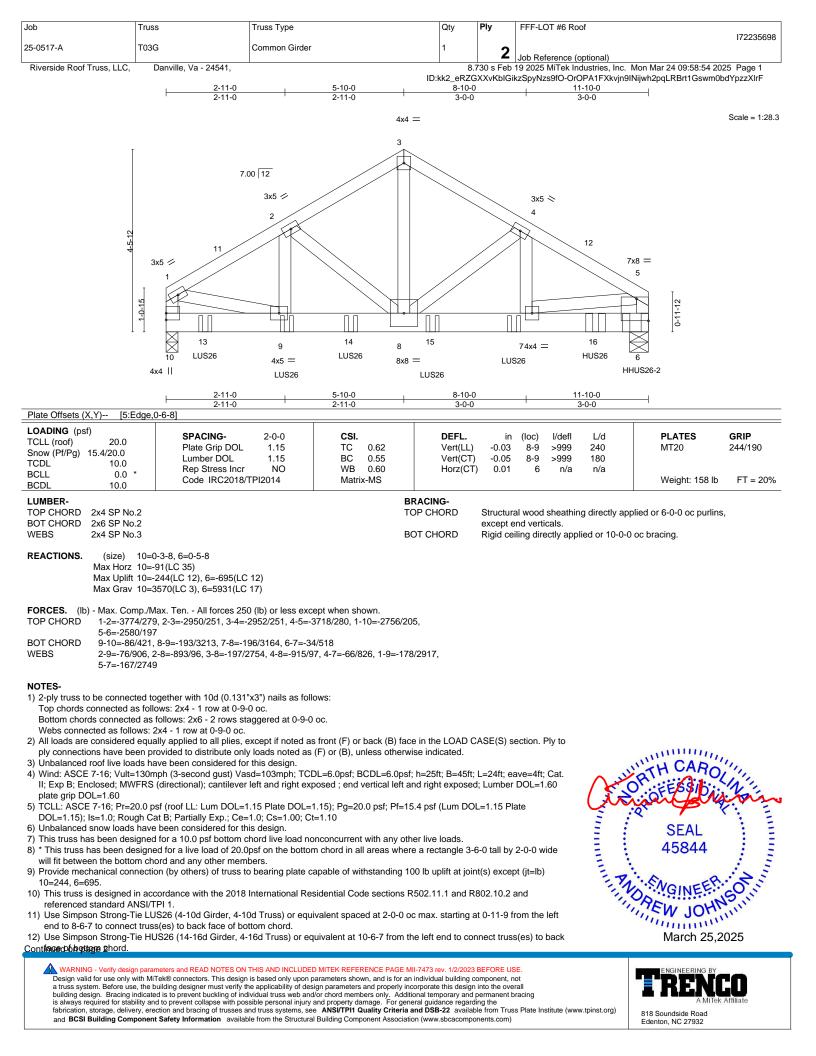
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



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Job	Truss	Truss Type	Qty	Ply	FFF-LOT #6 Roof		
					172235698		
25-0517-A	T03G	Common Girder	1	2			
				_	Job Reference (optional)		
Riverside Roof Truss, LLC,	Danville, Va - 24541,		8.7	730 s Feb	19 2025 MiTek Industries, Inc. Mon Mar 24 09:58:54 2025 Page 2		
		ID:kk2_eRZGXXvKblGikzSpyNzs9fO-OrOPA1FXkvjn9INijwh2pqLRBrt1Gswm0bdYpzzXIrF					

NOTES-

13) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 6-10d Truss) or equivalent at 11-8-4 from the left end to connect truss(es) to back face of bottom chord. 14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

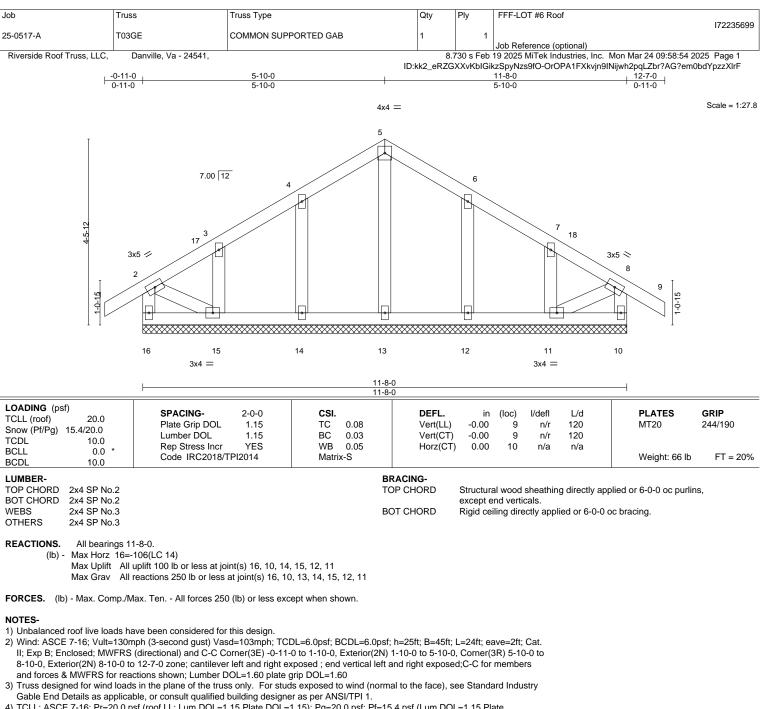
Uniform Loads (plf) Vert: 1-3=-51, 3-5=-51, 6-10=-20

Concentrated Loads (lb)

Vert: 6=-2782(B) 9=-837(B) 7=-837(B) 13=-839(B) 14=-837(B) 15=-837(B) 16=-1118(B)

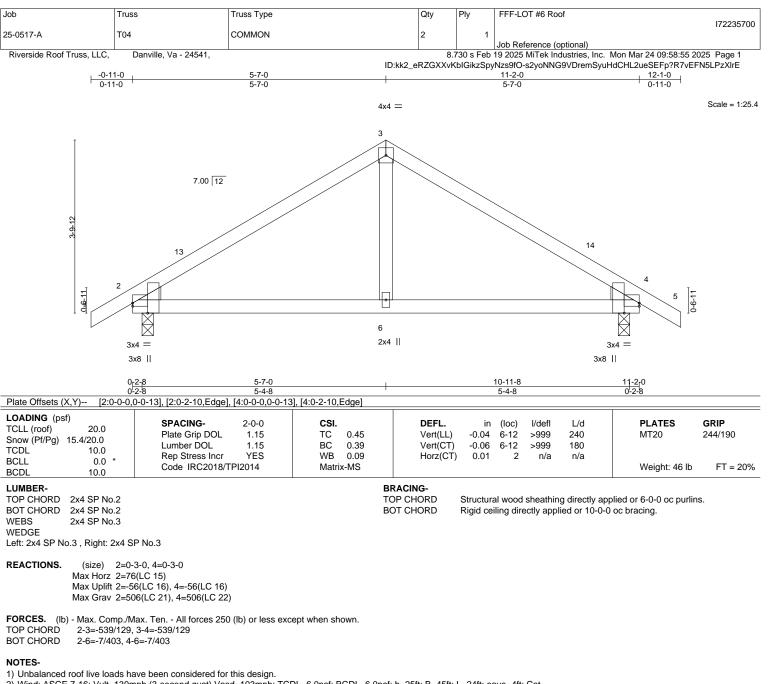
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 outlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/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)





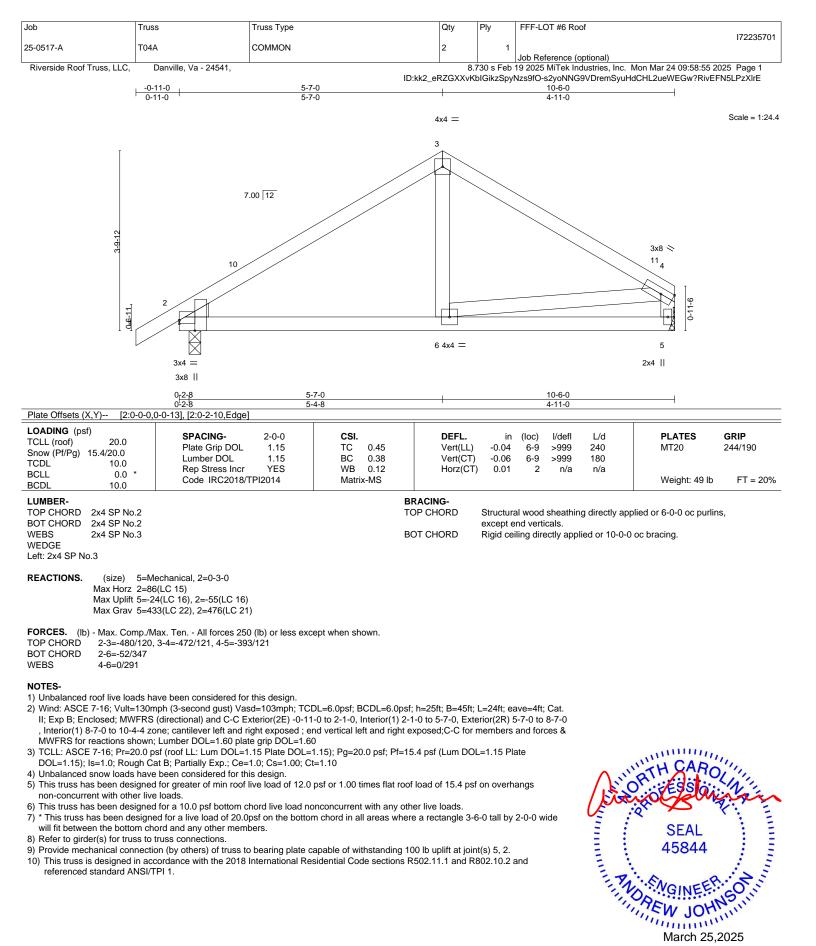
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 Coblecture spaced at 2.0.0 ac
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide
- will fit between the bottom chord and any other members.
- 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.



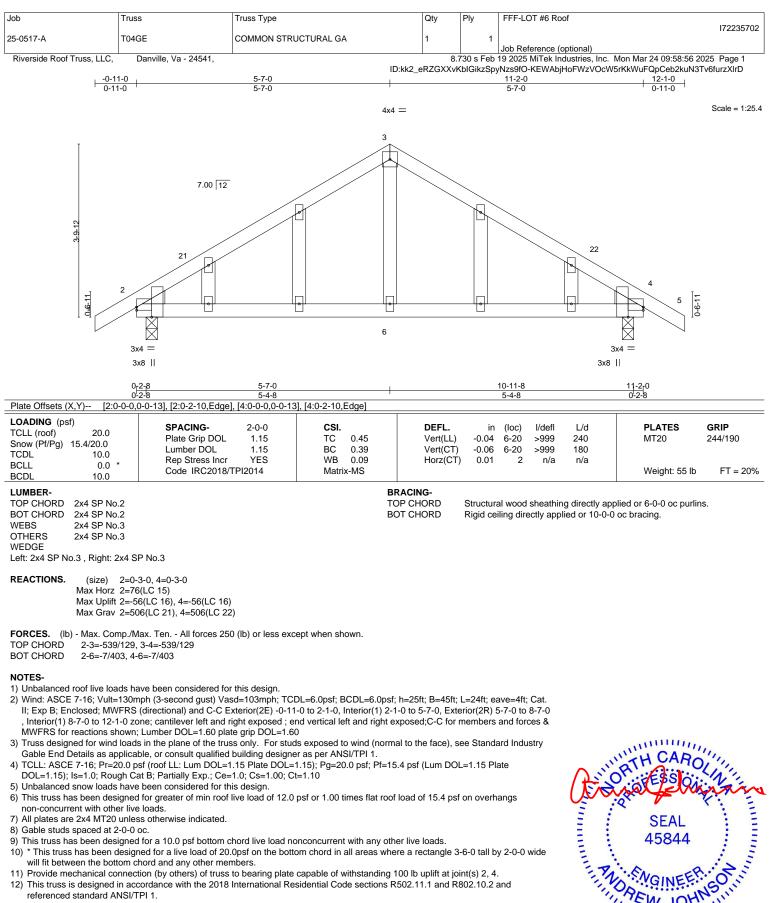


- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-7-0, Exterior(2R) 5-7-0 to 8-7-0, Interior(1) 8-7-0 to 12-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





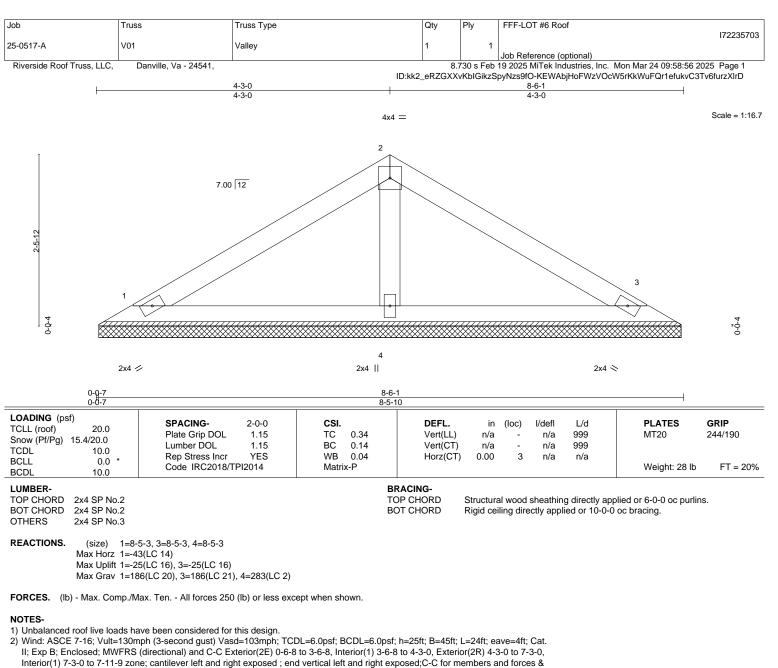




- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

818 Soundside Road Edenton, NC 27932

JOH unun March 25,2025

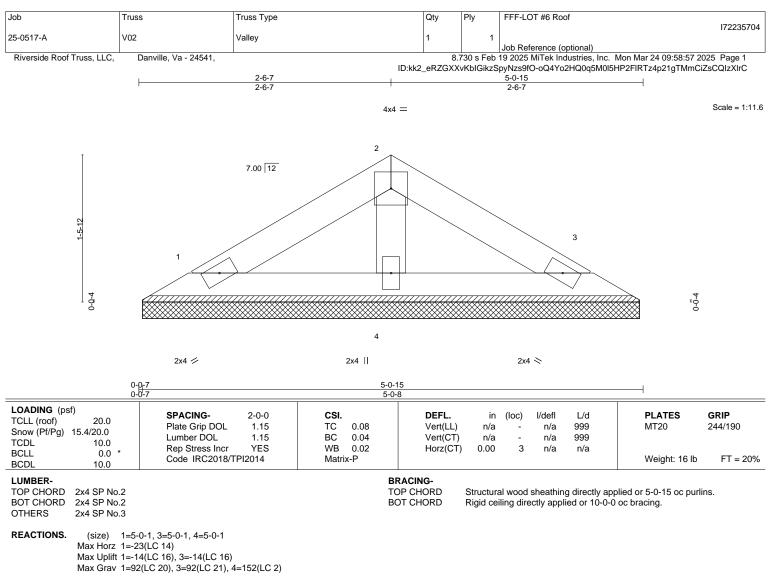


- MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate
- DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10 4) Unbalanced snow loads have been considered for this design.
- 4) Unbalanced snow loads have been considered t
- 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.
- 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.



A MiTek Affil 818 Soundside Road

Edenton, NC 27932



FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate
- DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

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.

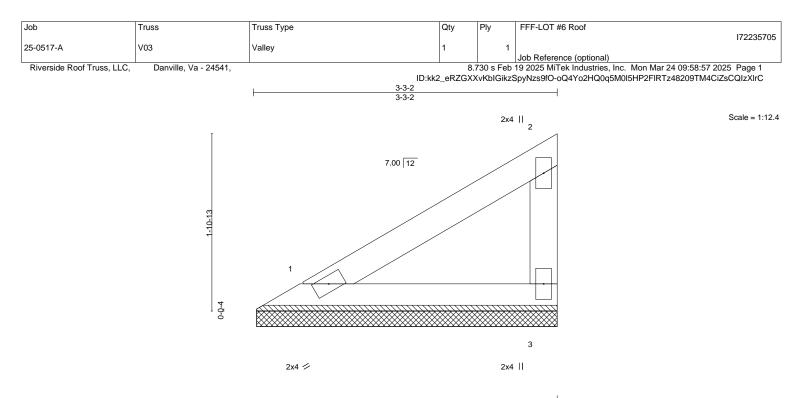
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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.



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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 0.12 BC 0.07 WB 0.00 Matrix-P	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 Weight: 11 lb	GRIP 244/190 FT = 20%
LUMBER-	MBER- BRACING-								

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

REACTIONS. (size) 1=3-2-11, 3=3-2-11 Max Horz 1=52(LC 13)

Max Uplift 1=-4(LC 16), 3=-10(LC 13) Max Grav 1=106(LC 20), 3=106(LC 27)

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

NOTES-

- 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
- 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) Gable requires continuous bottom chord bearing.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

 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 3-3-2 oc purlins,

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

except end verticals.

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