

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24-0818-A RVF-LOT #3 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: I63697974 thru I63697998

My license renewal date for the state of North Carolina is December 31, 2024.

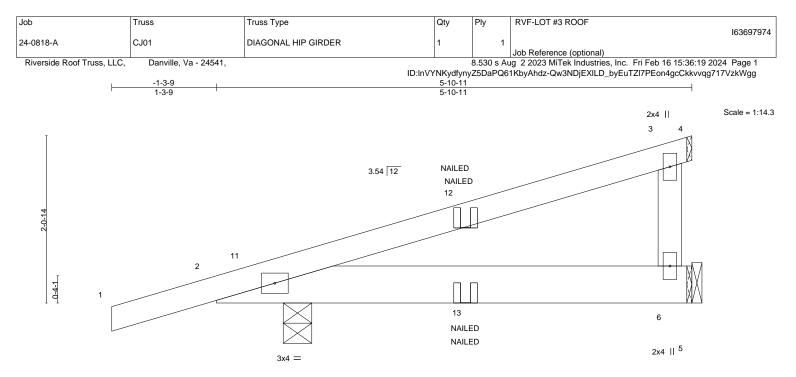
North Carolina COA: C-0844



February 20,2024

Fox, Steve

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.



	0-9-15 0-9-15			-10-11 5-0-12					
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCode IRC2018/TPI2014	CSI. TC 0.26 BC 0.10 WB 0.00 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.01 6	5-10 >	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 27 lb	GRIP 244/190 FT = 20%
LUMBER-		BI	RACING-						

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

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-10-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

6=Mechanical, 2=0-4-4 REACTIONS. (size) Max Horz 2=64(LC 9) Max Uplift 2=-70(LC 12) Max Grav 6=185(LC 17), 2=379(LC 2)

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); 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.
- 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.
- Refer to airder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 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.
- 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: 1-3=-43, 3-4=-43, 2-5=-20 Concentrated Loads (lb) Vert: 13=2(F=1, B=1)

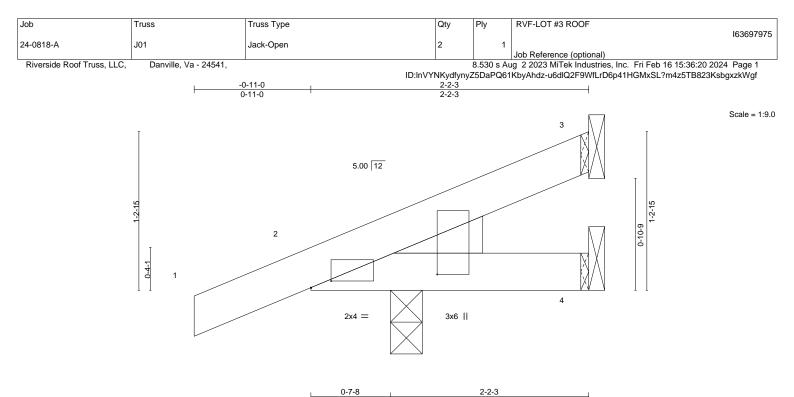


February 20,2024



Edenton, NC 27932

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		0-7-8	1-6-11			
Plate Offsets (X,Y) [2:0-1-14	4,0-0-10], [2:0-1-4,0-11-14]					
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 *	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.07 BC 0.06 WB 0.00	DEFL. in (lc Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) -0.00	oc) l/defl L/d 5 >999 240 5 >999 180 3 n/a n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP			Weight: 9 lb	FT = 20%
LUMBER-			BRACING-			

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-0, 4=Mechanical Max Horz 2=42(LC 16) Max Uplift 3=-4(LC 13), 2=-51(LC 16), 4=-2(LC 20) Max Grav 3=12(LC 28), 2=217(LC 21), 4=15(LC 7)

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.
- 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 4 lb uplift at joint 3, 51 lb uplift at joint 2 and 2 lb uplift at joint 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.



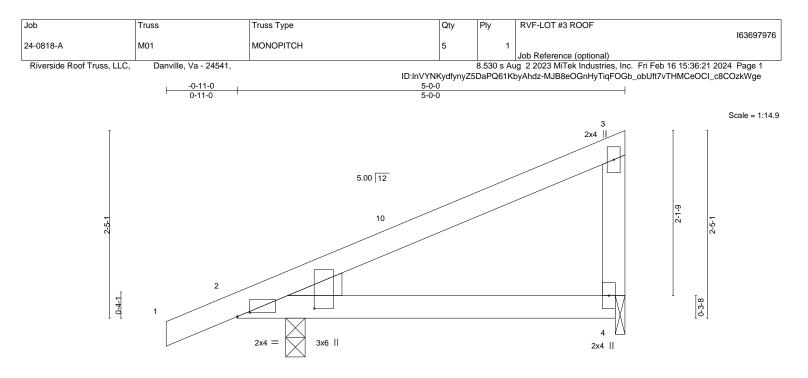
Structural wood sheathing directly applied or 2-2-3 oc purlins.

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

February 20,2024



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	0-7-8							
Plate Offsets (X,Y) [2:0-1-14	,0-0-10], [2:0-1-4,0-11-14]							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.24 BC 0.19 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc 0.02 4-1 -0.03 4-1 0.00	9 >999	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP					Weight: 21 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2			RACING- DP CHORD S	Structural wo	od sheathir	ig directly ap	plied or 5-0-0 oc purlir	າຣ,

BOT CHORD

except end verticals.

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

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) 2=0-3-0, 4=0-1-8

Max Horz 2=77(LC 15) Max Uplift 2=-47(LC 16), 4=-9(LC 13) Max Grav 2=292(LC 2), 4=168(LC 21)

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

NOTES-

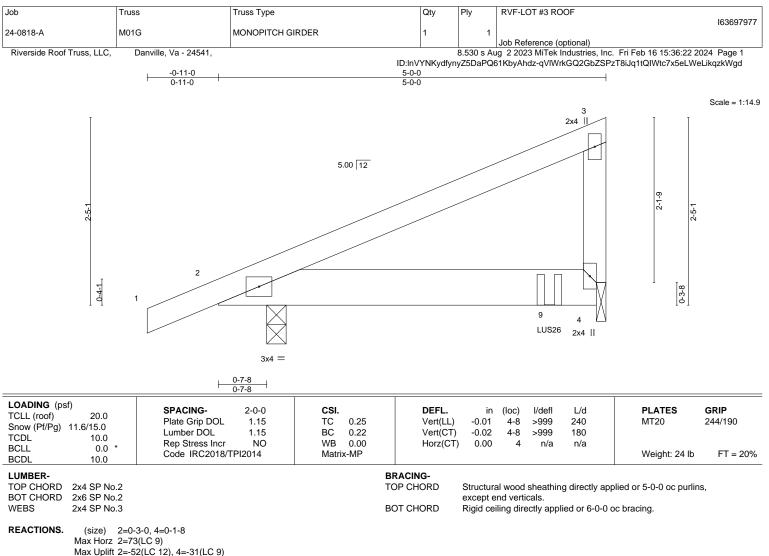
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-10-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 2 and 9 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.



February 20,2024



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Max Grav 2=342(LC 2), 4=465(LC 17)

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); 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.
- 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2 and 31 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.
- Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 4-3-4 from the left end to connect truss(es) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) 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=-43, 2-4=-20

Continued on page 2

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February 20,2024



Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RVF-LOT #3 ROOF
					163697977
24-0818-A	M01G	MONOPITCH GIRDER	1	1	
					Job Reference (optional)
Riverside Roof Truss, LLC	, Danville, Va - 24541,			8.530 s Au	Ig 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:22 2024 Page 2

ID:InVYNKydfynyZ5DaPQ61KbyAhdz-qVIWrkGQ2GbZSPzT8iJq1tQIWtc7x5eLWeLikqzkWgd

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 9=-350(B)

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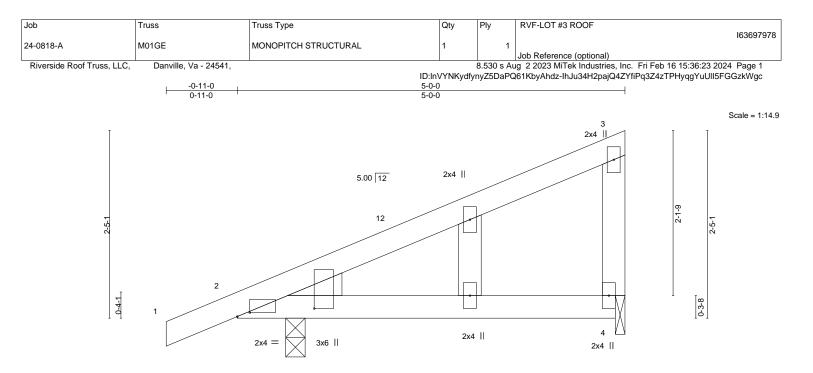


Plate Offsets (X,Y) [2:0-1-14,	0-7-8 0-7-8 0-0-10], [2:0-1-4.0-11-14]							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.24 BC 0.19 WB 0.00 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lc 0.02 4- -0.03 4- 0.00	11 >999	L/d 240 180 n/a	PLATES MT20 Weight: 22 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2				Structural we		ng directly ap	plied or 5-0-0 oc purlir	ns,

except end verticals. BOT CHORD

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

WEDGE Left: 2x4 SP No.3

WEBS

OTHERS

REACTIONS. (size) 2=0-3-0. 4=0-1-8 Max Horz 2=77(LC 15) Max Uplift 2=-47(LC 16), 4=-9(LC 13) Max Grav 2=292(LC 2), 4=168(LC 21)

2x4 SP No.3

2x4 SP No.3

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) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-10-4 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
- 2) 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
- 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) Gable studs spaced at 2-0-0 oc.
- 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 2 and 9 lb uplift at joint 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.

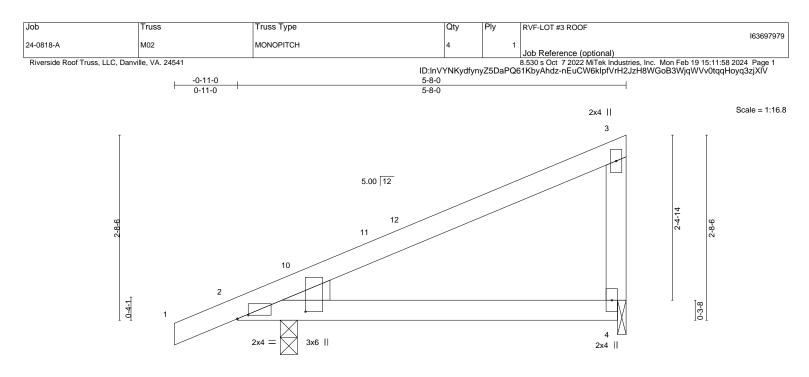


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	0-7-8		5-8-0 5-0-8			
Plate Offsets (X,Y) [2:0-1-14 LOADING (psf)	k,0-0-10], [2:0-1-4,0-11-14] SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES	GRIP
TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) -0.03 4-9		MT20	244/190

Snow (Pf/Pg) 11 TCDL BCLL BCDL	1.6/15.0 10.0 0.0 * 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.27 WB 0.00 Matrix-MP	Vert(CT) Horz(CT)	-0.06 4-9 0.00 2	>999 n/a	180 n/a	Weight: 23 lb	FT = 20%
LUMBER-				RACING-					
	2x4 SP No.2 2x4 SP No.2		TC		Structural wood end verticals.	l sheathin	g directly app	blied or 5-8-0 oc purlin	s, except
	2x4 SP No.3		BC		Rigid ceiling dir	ectlv app	ied or 10-0-0	oc bracing.	

WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-0, 4=0-1-8

Max Horz 2=87(LC 15) Max Uplift 2=-48(LC 16), 4=-10(LC 13) Max Grav 2=316(LC 2), 4=199(LC 21)

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

NOTES-

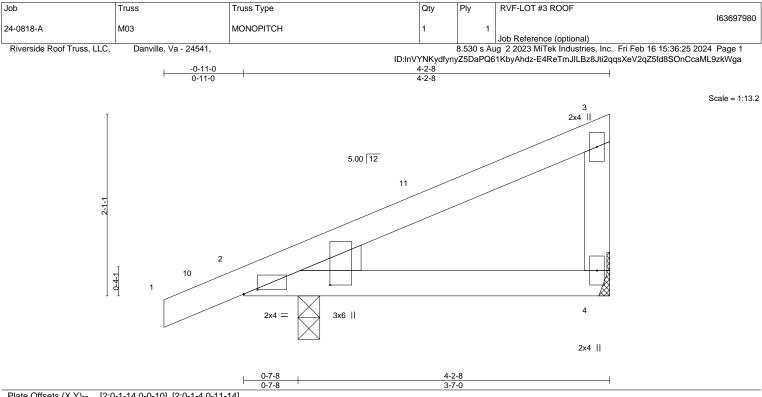
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 5-6-4 zone; cantilever left and right exposed; end vertical left and right 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=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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 2 and 10 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.



February 20,2024



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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-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2018/TPI2014	CSI. TC 0.14 BC 0.10 WB 0.00 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 0.00	(loc) 4-9 4-9 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 18 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2			RACING-	Structura	al wood	sheathir	ng directly ap	plied or 4-2-8 oc purlir	IS,

except end verticals. BOT CHORD

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

WEDGE Left: 2x4 SP No.3

WEBS

BOT CHORD 2x4 SP No.2

REACTIONS. (size) 4=Mechanical, 2=0-3-0 Max Horz 2=66(LC 15)

2x4 SP No.3

Max Uplift 4=-8(LC 13), 2=-48(LC 16) Max Grav 4=127(LC 21), 2=268(LC 21)

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

NOTES-

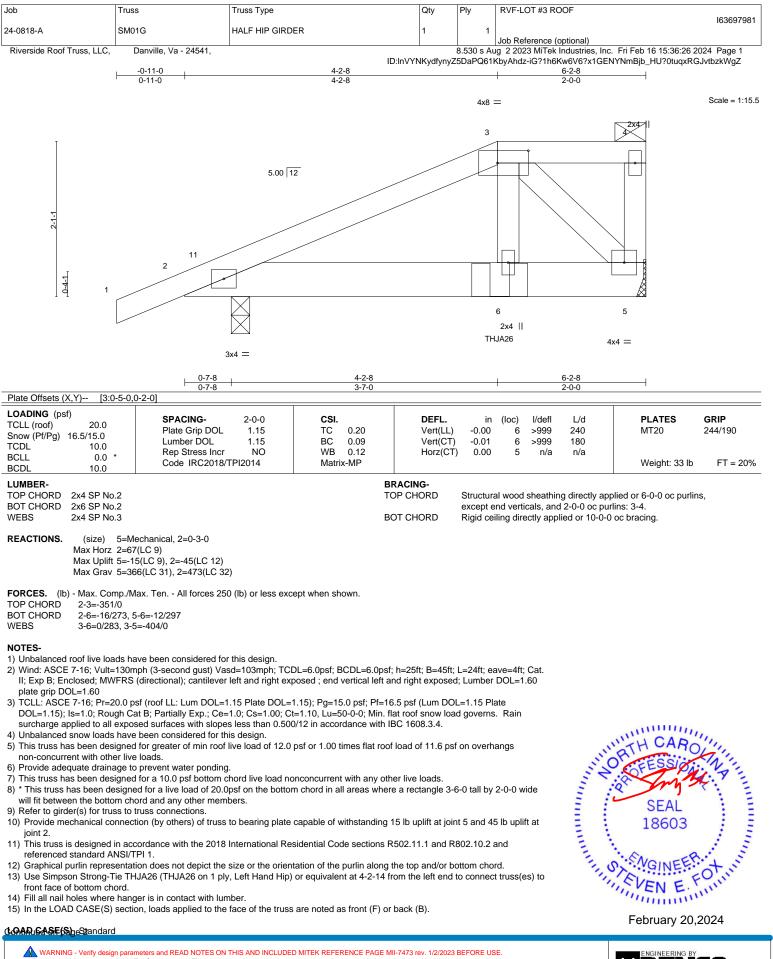
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 4-0-12 zone; cantilever left and right exposed ; end vertical left and right 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.
- * 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 8 lb uplift at joint 4 and 48 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.



February 20,2024



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Job	Truss	Truss Type	Qty	Ply	RVF-LOT #3 ROOF
					163697981
24-0818-A	SM01G	HALF HIP GIRDER	1	1	
					Job Reference (optional)
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.530 s Au	g 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:27 2024 Page 2

ID:InVYNKydfynyZ5DaPQ61KbyAhdz-BTYPuSKYtoEsYBrQxFv?jw791uLFcL34gw3SQ1zkWgY

LOAD CASE(S) Standard

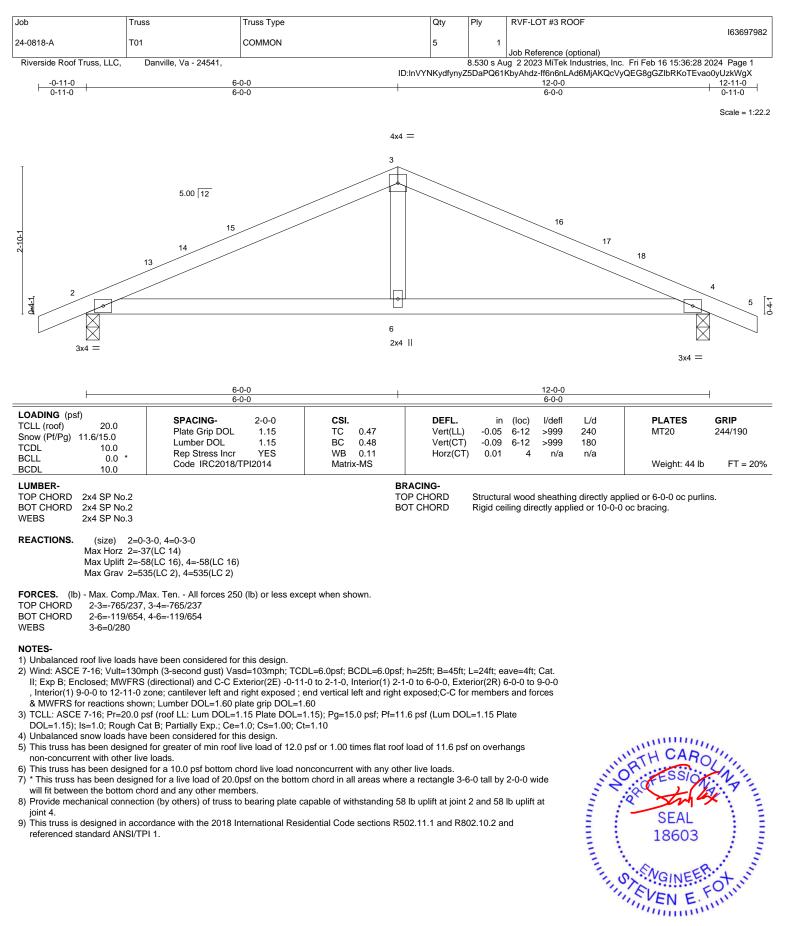
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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

Vert: 6=-263(F)

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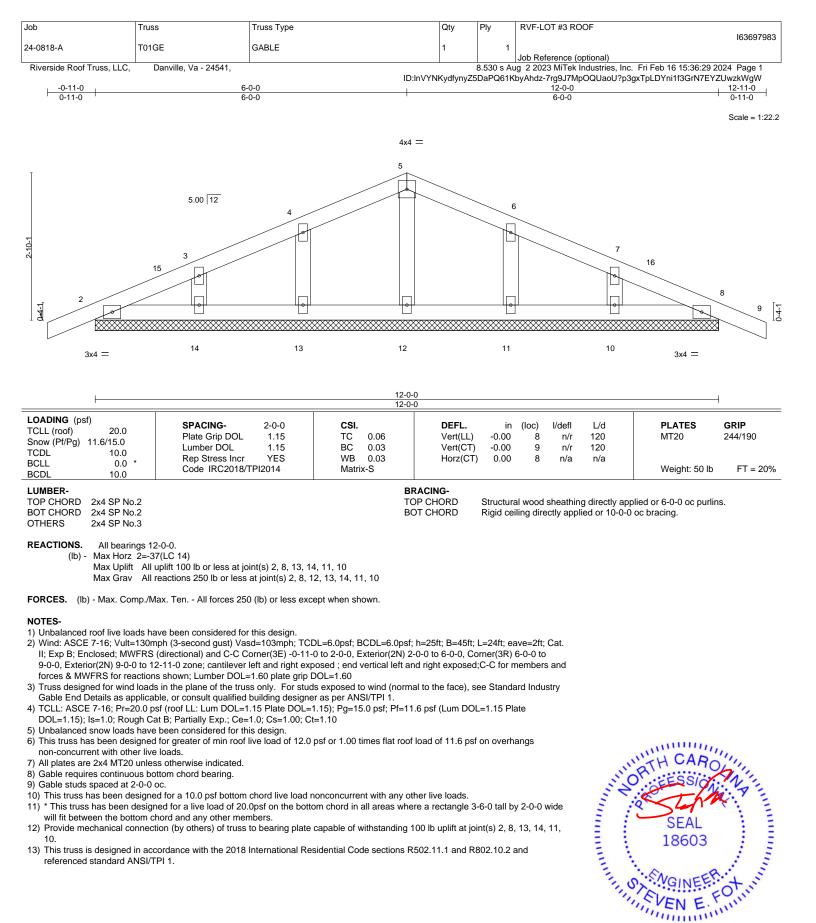




February 20,2024



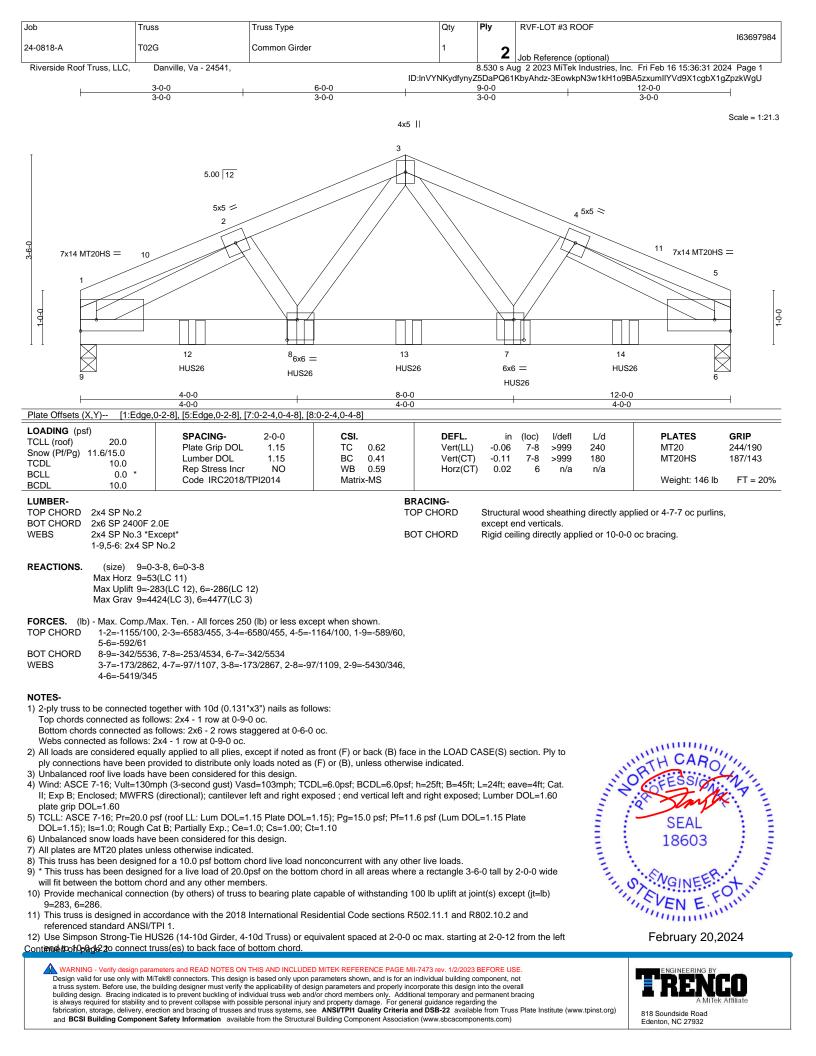
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



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Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	RVF-LOT #3 ROOF
					163697984
24-0818-A	T02G	Common Girder	1	2	
				_	Job Reference (optional)
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.530 s Au	g 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:31 2024 Page 2

ID:InVYNKydfynyZ5DaPQ61KbyAhdz-3EowkpN3w1kH1o9BA5zxumIIYVd9X1cgbX1gZpzkWgU

NOTES-

13) 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

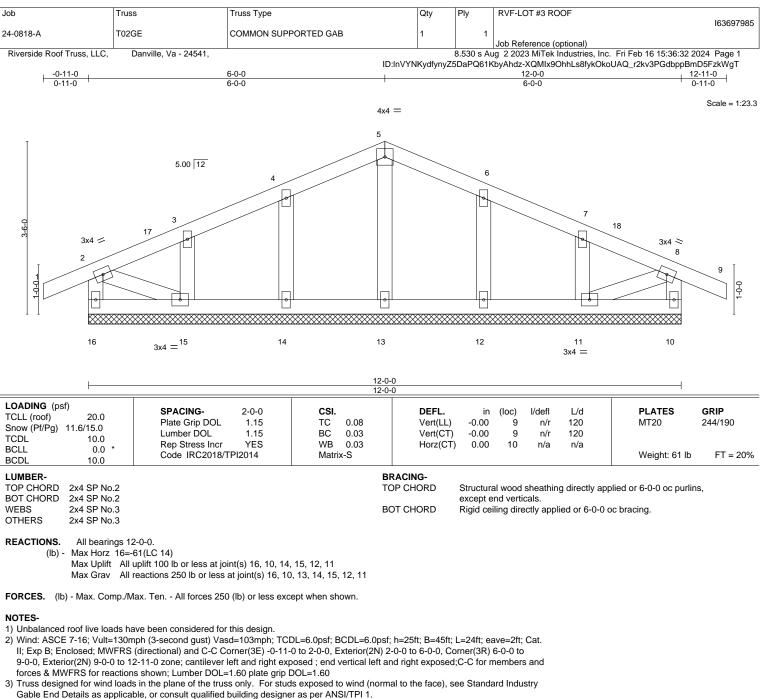
Uniform Loads (plf)

Vert: 1-3=-43, 3-5=-43, 6-9=-20 Concentrated Loads (lb)

Vert: 7=-1160(B) 8=-1160(B) 12=-1160(B) 13=-1160(B) 14=-1160(B)

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- 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 4) 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 12) 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.

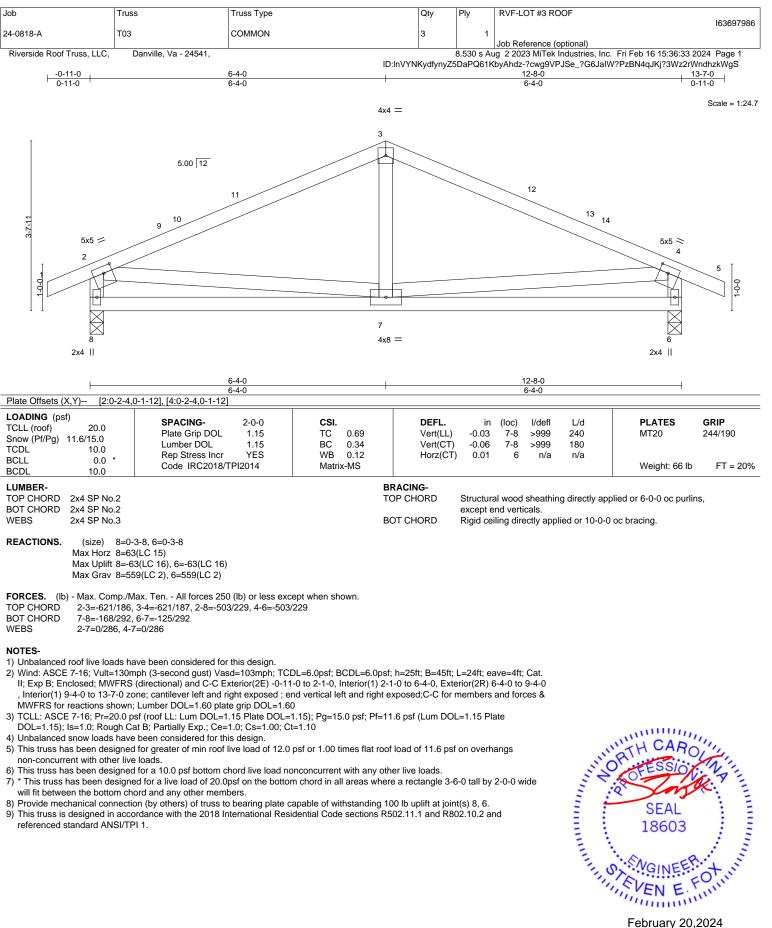
HIN ST. ST. HORTH CA Other SEAL 18603 FO VEN E

February 20,2024



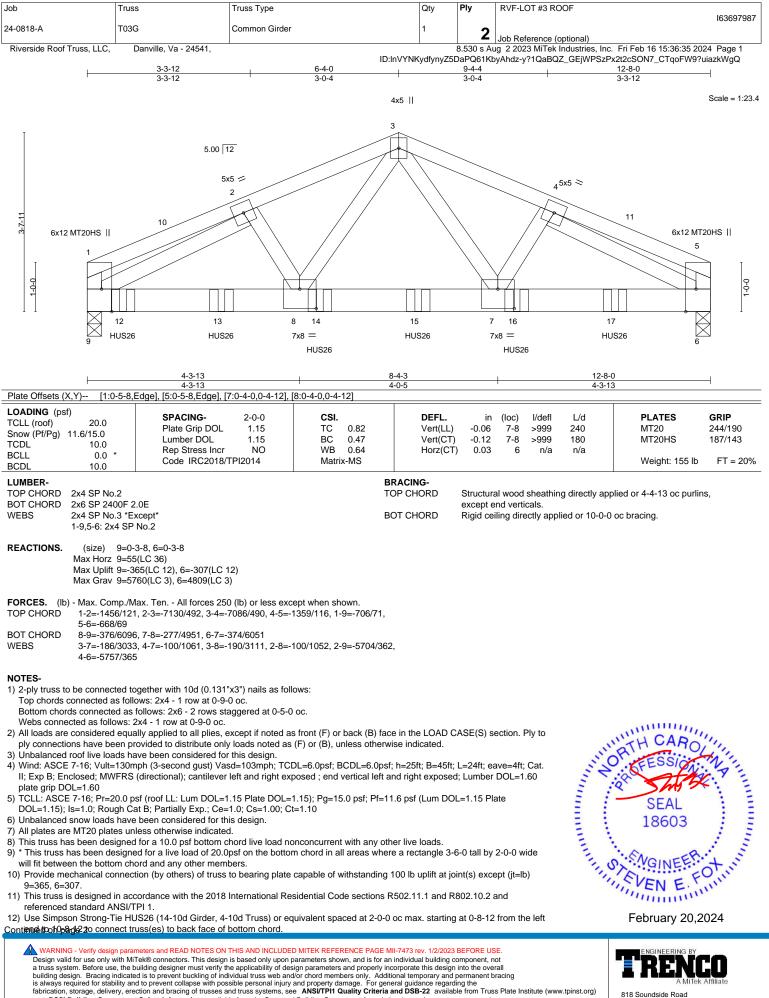
Edenton, NC 27932

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

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	RVF-LOT #3 ROOF
					163697987
24-0818-A	T03G	Common Girder	1	2	
				2	Job Reference (optional)
Riverside Roof Truss, LLC,	Danville, Va - 24541,			8.530 s Au	Ig 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:35 2024 Page 2

ID:InVYNKydfynyZ5DaPQ61KbyAhdz-y?1QaBQZ_GEjWPSzPx2t2cSON7_CTqoFW9?uiazkWgQ

NOTES-

13) 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

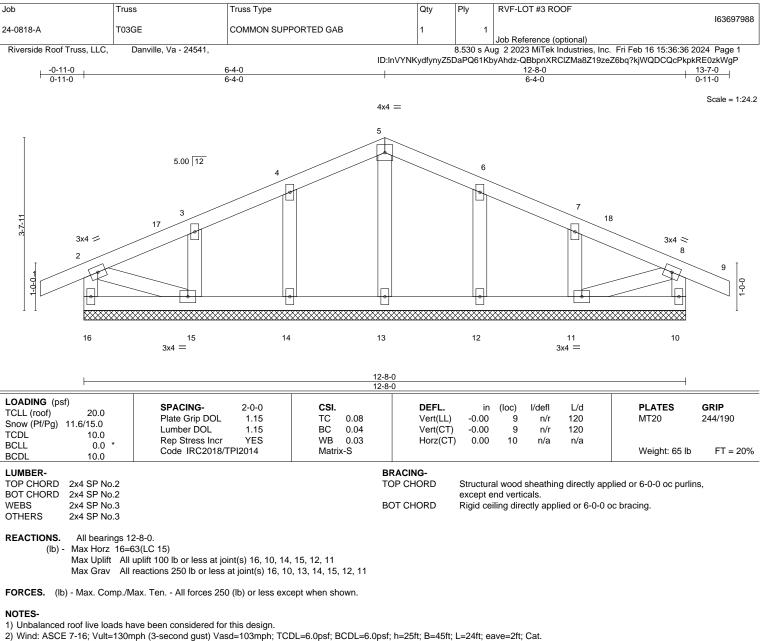
Uniform Loads (plf)

Vert: 1-3=-43, 3-5=-43, 6-9=-20 Concentrated Loads (lb)

Vert: 12=-1164(B) 13=-1160(B) 14=-1160(B) 15=-1160(B) 16=-1160(B) 17=-1160(B)

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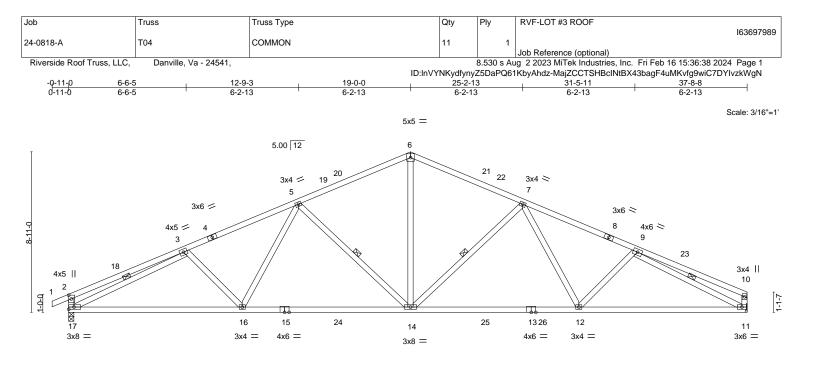
- II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-4-0, Exterior(2N) 2-4-0 to 6-4-0, Corner(3R) 6-4-0 to 9-4-0, Exterior(2N) 9-4-0 to 13-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber 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.
- 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 4) 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 12) 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.

HIN STATISTICS Other SEAL 18603 FO VEN E

February 20,2024



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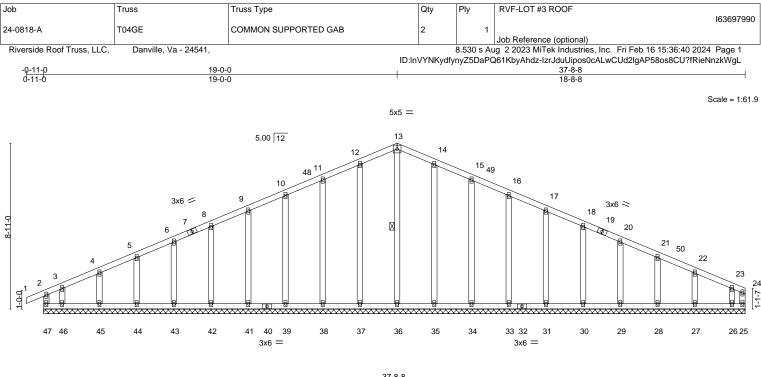


	-12	19-0-0	1	28-4-4		7-8-8	
9-7 Plate Offsets (X,Y) [2:0-2-8,	-12 0-1-121	9-4-4		9-4-4	9.	-4-4	
	0-1-12]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.77	Vert(LL)	-0.28 12-14 >999	240	MT20	244/190
Snow (Pf/Pg) 11.6/15.0 TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(CT)	-0.50 12-14 >900	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.75	Horz(CT)	0.13 11 n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MS				Weight: 210 lb	FT = 20%
LUMBER-		P	RACING-		I		
TOP CHORD 2x4 SP No.2			OP CHORD	Structural wood sheathin	a directly applied or	3-1-15 oc purlir	IS
BOT CHORD 2x4 SP No.1				except end verticals.	g alloony applied of		10,
WEBS 2x4 SP No.3		В	OT CHORD	Rigid ceiling directly appl	ied or 10-0-0 oc bra	icing.	
		V	VEBS	1 Row at midpt	5-14, 7-14, 3-17,	, 9-11	
	0-3-8, 11=Mechanical						
Max Horz 17=							
	124(LC 16), 11=-90(LC 16)						
Wax Grav 17=	1711(LC 28), 11=1656(LC 29)						
FORCES. (lb) - Max. Comp./M	lax. Ten All forces 250 (lb) or less exc	ept when shown.					
()	3-5=-2802/253, 5-6=-2074/267, 6-7=-2						
9-10=-402/63,	2-17=-449/143, 10-11=-292/74						
	656, 14-16=-157/2385, 12-14=-142/230						
	-14=-714/135, 6-14=-65/1258, 7-14=-68	80/133, 7-12=0/435,					
3-17=-2376/18	80, 9-11=-2508/220						
NOTES-							
	ave been considered for this design.						
,	nph (3-second gust) Vasd=103mph; TC	DL=6.0psf; BCDL=6.0psf	f; h=25ft; B=45ft; I	_=38ft; eave=5ft; Cat.			
	(directional) and C-C Exterior(2E) -0-1						
	7-6-12 zone; cantilever left and right ex		and right exposed	C-C for members and			
	ns shown; Lumber DOL=1.60 plate grip					annun.	
	osf (roof LL: Lum DOL=1.15 Plate DOL=		1.6 psf (Lum DOL	=1.15 Plate		L CAD	11.
,, , , , , , , , , , , , , , , , , , ,	at B; Partially Exp.; Ce=1.0; Cs=1.00; C been considered for this design.	t=1.10			"at	10440	1111
	d for greater of min roof live load of 12.0	nsf or 1 00 times flat roo	f load of 11 6 psf	on overhands	N.O.	EESSIO:	NE
non-concurrent with other live				on ovonlango	24.80	1 14	· 7 -
	d for a 10.0 psf bottom chord live load n	onconcurrent with any oth	her live loads.		HIN SA	5007	The second second
	ed for a live load of 20.0psf on the botto		re a rectangle 3-6	-0 tall by 2-0-0 wide	2 / C	SEAL	1 E
	ord and any other members, with BCDL	. = 10.0psf.				JLAL	: =
8) Refer to girder(s) for truss to					- E - E	18603	- E - E -
,	on (by others) of truss to bearing plate of	apable of withstanding 1	UU ID UPlift at join	t(s) 11 except (jt=lb)	3		1 E
17=124. 10) This truss is designed in acc	cordance with the 2018 International Re	sidential Code sections	2502 11 1 and DG	02 10 2 and	· · · ·	~	1 5
referenced standard ANSI/		Sidemial Code Sections I	1002.11.1 anu No	02.10.2 anu	2.0.5	VGINEEN	1 3
					11 TA	. Hilling	0.0
					115	EN E.	111
						(IIIIIIII)	
						2018-0122	

February 20,2024

ENGINEERING BY A MITCH Attiliate 818 Soundside Road Edenton, NC 27932

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L		37	-8-8						
		37	7-8-8						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.11 BC 0.06 WB 0.17 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 -0.00	(loc) 1 1 25	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 245 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2		-	RACING- OP CHORD	Structura	ıl wood	sheathin	g directly ap	plied or 6-0-0 oc purlins	i,

	2x4 SP No.2		except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.		
WEBS OTHERS	2x4 SP No.3 2x4 SP No.3	BOT CHORD WEBS	1 Row at midpt	13-36	
OTTLENO		WEB0	i now at mapt	10 00	

REACTIONS. All bearings 37-8-8. Max Horz 47=159(LC 15) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 47, 25, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29. 28. 27. 26

All reactions 250 lb or less at joint(s) 47, 25, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, Max Grav 31, 30, 29, 28, 27, 26

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

TOP CHORD 11-12=-97/253, 12-13=-109/286, 13-14=-109/286, 14-15=-97/253

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=38ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 3-0-0, Exterior(2N) 3-0-0 to 19-0-0, Corner(3R) 19-0-0 to 23-0-0, Exterior(2N) 23-0-0 to 37-6-12 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

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

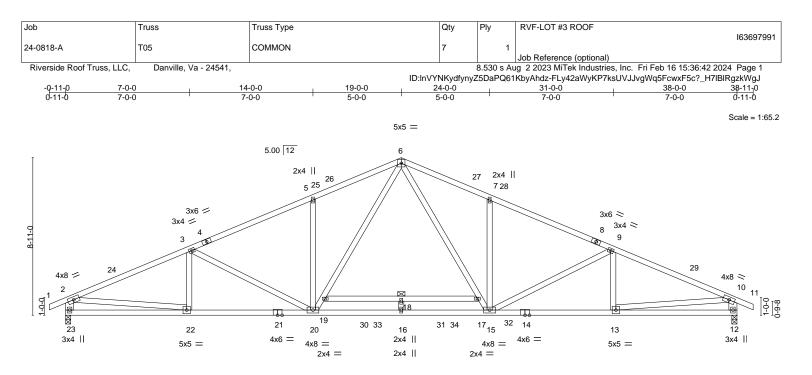
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable 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 12) 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) 47, 25, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26.
- 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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February 20,2024



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7-0-0	14-0-0	+ <u>19-0-0</u>	24-0-0	31-0-0	38-0-0
7-0-0	7-0-0	5-0-0	5-0-0	7-0-0	7-0-0
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.67 BC 0.90 WB 0.62 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl L/d -0.52 18 >858 240 -0.92 18 >490 180 0.10 12 n/a n/a	PLATES GRIP MT20 244/190 Weight: 236 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-7-0 oc purlins,
BOT CHORD	2x4 SP No.2 *Except*		except end verticals.
	14-21: 2x4 SP DSS	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS	2x4 SP No.3 *Except*		6-0-0 oc bracing: 17-19
	2-23,10-12: 2x6 SP No.2, 2-22,10-13: 2x4 SP No.2		
REACTIONS.	(size) 23=0-3-8, 12=0-3-8		
	Max Horz 23=159(LC 15)		
	Max Uplift 23=-73(LC 16), 12=-73(LC 16)		
	Max Grav 23=1897(LC 28), 12=1897(LC 29)		
FORCES. (II	b) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.		

TOP CHORD 2-3=-3253/131, 3-5=-2987/128, 5-6=-2978/208, 6-7=-2978/208, 7-9=-2987/128, 9-10=-3253/131, 2-23=-1768/168, 10-12=-1767/168 BOT CHORD 22-23=-75/557, 20-22=-63/3036, 16-20=0/2112, 15-16=0/2112, 13-15=-52/2945, 12-13=-41/443 WEBS 6-17=-47/1238, 15-17=-94/1133, 7-15=-392/163, 9-15=-372/103, 19-20=-94/1133, 6-19=-47/1238, 5-20=-392/163, 3-20=-372/103, 2-22=-8/2524, 10-13=-10/2524

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=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-10-10, Interior(1) 2-10-10 to 19-0-0, Exterior(2R) 19-0-0 to 22-9-10, Interior(1) 22-9-10 to 38-11-0 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 7) will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 12.
- 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.

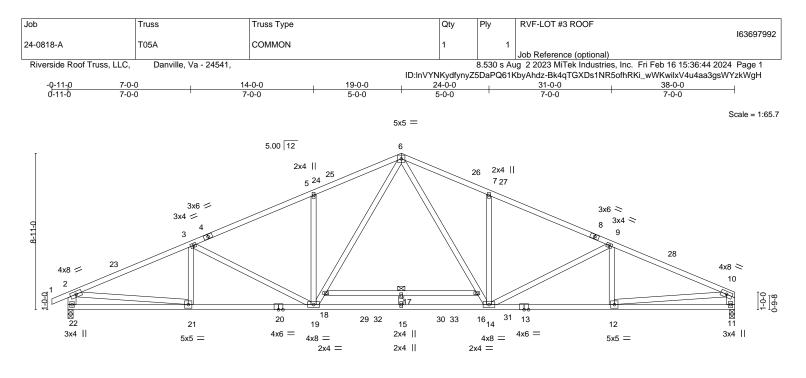


February 20,2024



Edenton, NC 27932

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7-0-0	14-0-0	+ <u>19-0-0</u>	24-0-0	<u>31-0-0</u>	38-0-0
	7-0-0	5-0-0	5-0-0	7-0-0	7-0-0
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 0.78 BC 0.91 WB 0.64 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl L/d -0.53 17 >858 240 -0.92 17 >489 180 0.10 11 n/a n/a	PLATES GRIP MT20 244/190 Weight: 235 lb FT = 20%

BRACING-

BOT CHORD



LOWIDER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except*
	13-20: 2x4 SP DSS
WEBS	2x4 SP No.3 *Except*
	2-22,10-11: 2x6 SP No.2, 2-21,10-12: 2x4 S

2-22,10-11: 2x6 SP No.2, 2-21,10-12: 2x4 SP No.2 **REACTIONS.** (size) 22=0-3-8, 11=0-3-8 Max Horz 22=159(LC 15) Max Horz 22=159(LC 15)

Max Uplift 22=-74(LC 16), 11=-37(LC 16) Max Grav 22=1898(LC 28), 11=1838(LC 29)

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

 TOP CHORD
 2-3=-3254/131, 3-5=-2989/129, 5-6=-2980/211, 6-7=-2979/208, 7-9=-2991/133,

- 9-10=-3261/141, 2-22=-1768/168, 10-11=-1708/120 BOT CHORD 21-22=-100/552, 19-21=-91/3032, 15-19=0/2109, 14-15=0/2109, 12-14=-90/2958, 11-12=-43/344 WEBS 6-16=-46/1238, 14-16=-93/1132, 7-14=-384/160, 9-14=-388/110, 18-19=-94/1133, 6-18=-46/1238, 5-19=-392/162, 3-19=-372/103, 2-21=-9/2525, 10-12=-48/2632
- NOTES-

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

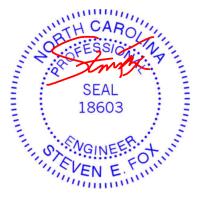
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-10-10, Interior(1) 2-10-10 to 19-0-0, Exterior(2R) 19-0-0 to 22-9-10, Interior(1) 22-9-10 to 37-9-4 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 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.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 11.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied, except end verticals.

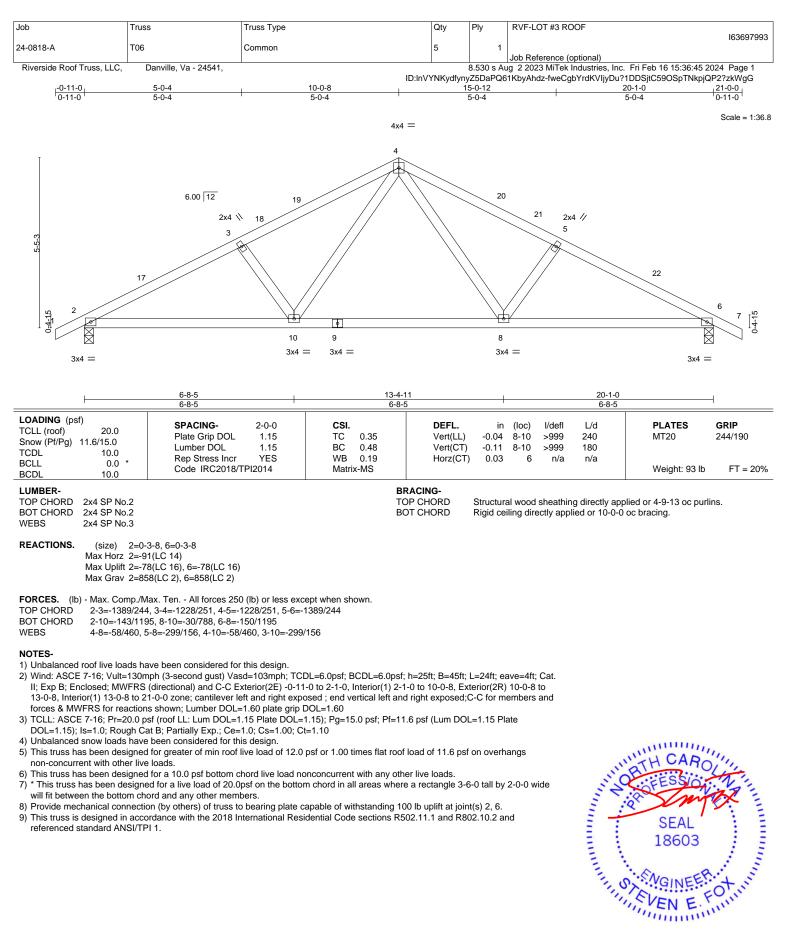
Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

6-0-0 oc bracing: 16-18

February 20,2024



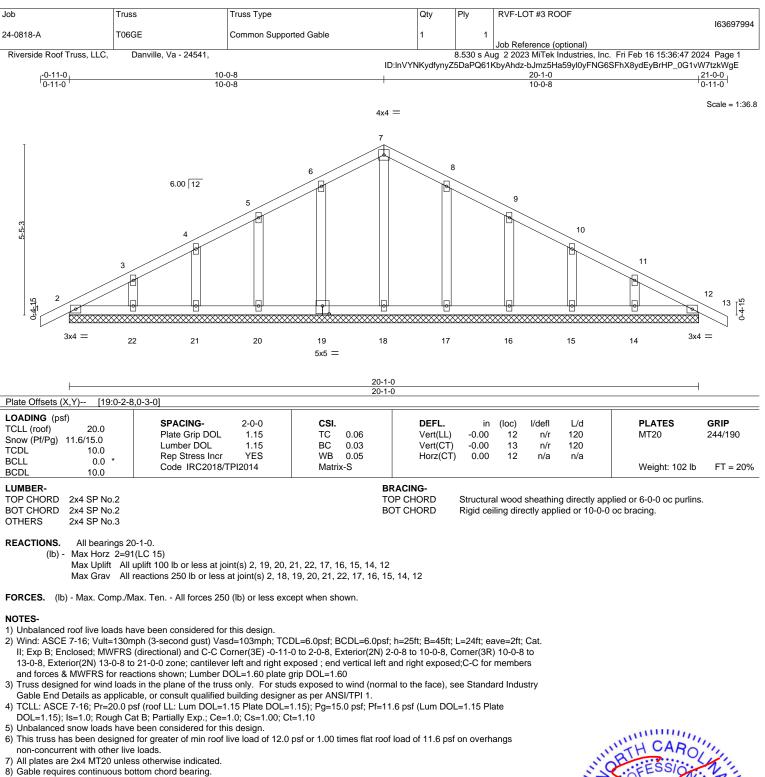
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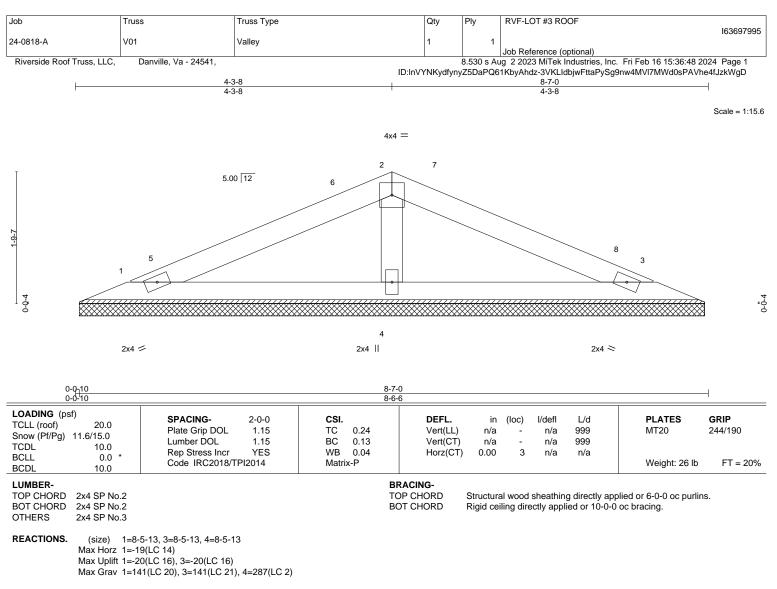
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12.
- 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.

SEAL 18603

February 20,2024



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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) 0-9-1 to 3-9-1, Interior(1) 3-9-1 to 4-3-8, Exterior(2R) 4-3-8 to 7-3-8, Interior(1) 7-3-8 to 7-9-15 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.

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.



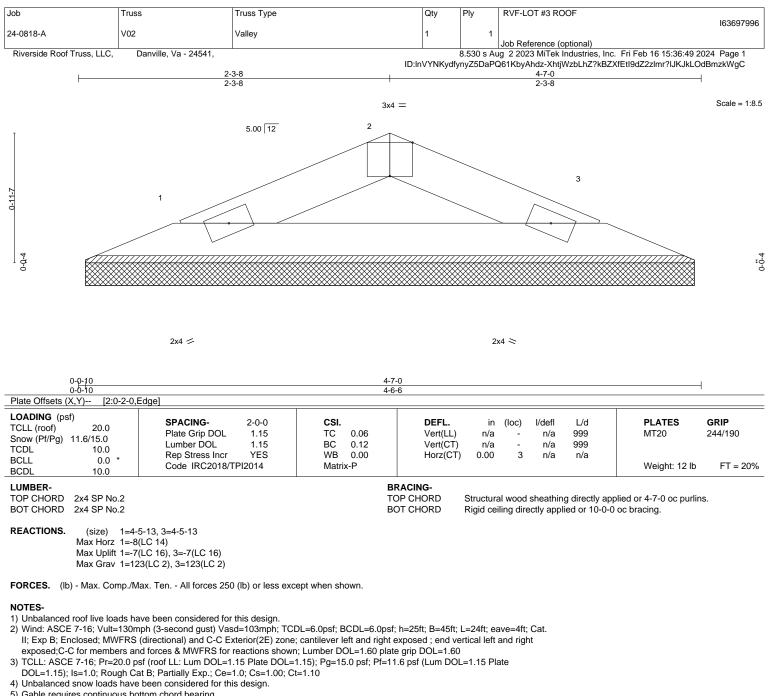
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818 Soundside Road

Edenton, NC 27932



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.

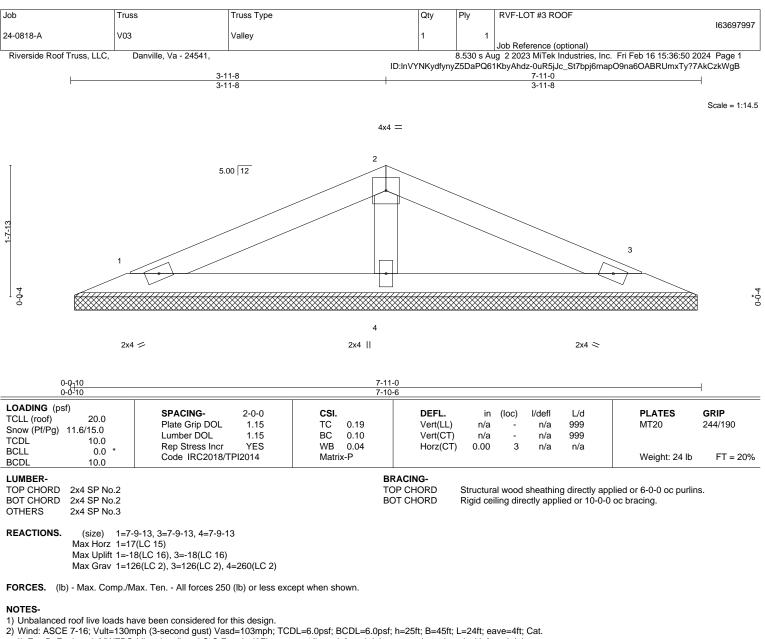
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 20,2024



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- 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.

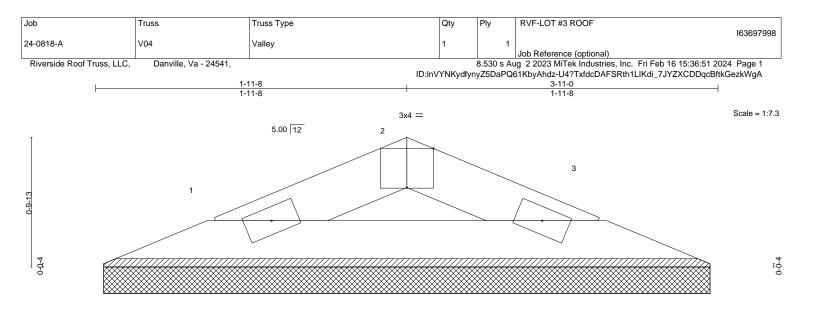


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ENGINEERING BY **TREENCO** A MITek Atfiliate 818 Soundside Road

Edenton, NC 27932

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2x4 ⋍

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

DEFL

BRACING-

TOP CHORD

BOT CHORD

Vert(LL)

Vert(CT)

Horz(CT)

3-10-6

3-10-6

CSI.

0.04

0.07

0.00

тс

BC

WB

Matrix-P

2x4 🗢

n/a

0.00

in (loc) l/defl L/d n/a - n/a 999

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

999

n/a

Structural wood sheathing directly applied or 3-11-0 oc purlins.

n/a

n/a

3

LUMBER-

LOADING (psf)

TCLL (roof)

TCDL

BCLL

BCDL

Snow (Pf/Pg)

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

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

11.6/15.0

20.0

10.0

10.0

0.0 *

REACTIONS. (size) 1=3-9-13, 3=3-9-13 Max Horz 1=7(LC 15) Max Uplift 1=-6(LC 16), 3=-6(LC 16) Max Grav 1=96(LC 2), 3=96(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

2-0-0

1.15

1.15

YES

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.



<u>3-11</u>-0 0-0-10

GRIP

244/190

FT = 20%

PLATES

Weight: 10 lb

MT20

February 20,2024



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)

