

RE: 25-0577-A

FFF-LOT #55 ROOF

Trenco 818 Soundside Rd Edenton, NC 27932

Truss Name

T06GE

V01

V02

V03

V04

Date

2/20/2024

2/20/2024

2/20/2024

2/20/2024

2/20/2024

Site Information:

Customer: Project Name: 25-0577-A

Lot/Block: Model:
Address: Subdivision:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.5

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 25 individual, dated Truss Design Drawings and 0 Additional Drawings.

No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Seal# 163697974 163697975 163697976 163697977 163697978 163697980 163697981 163697982 163697983 163697984 163697985 163697986 163697987 163697988 163697988 163697989 163697990 163697991	Truss Name CJ01 J01 M01 M01G M01GE M02 M03 SM01G T01 T01GE T02G T02GE T03 T03G T03GE T04 T04GE T05	Date 2/20/2024	No. 21 22 23 24 25	Seal# 163697994 163697995 163697996 163697997 163697998
_					
19	163697992	T05A	2/20/2024		
20	163697993	T06	2/20/2024		

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

Truss Design Engineer's Name: Fox, Steve

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



February 20, 2024

Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697974 25-0577-A CJ01 DIAGONAL HIP GIRDER Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:19 2024 Page 1 ID:InVYNKydfynyZ5DaPQ61KbyAhdz-Qw3NDjEXILD_byEuTZI7PEon4gcCkkvvqg717VzkWgg 5-10-11 1-3-9 5-10-11 2x4 || Scale = 1:14.3 NAILED 3.54 12 NAILED 12 0-4-1 13 6 NAILED NAILED 2x4 || ⁵ 3x4 =0-9-15 5-10-11 0-9-15 5-0-12 LOADING (psf) SPACING-2-0-0 DEFL. **PLATES GRIP** CSI. (loc) I/defl L/d TCLL (roof) 20.0 Plate Grip DOL Vert(LL) -0.01 240 244/190 1.15 TC 0.26 6-10 >999 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.10 Vert(CT) -0.01 6-10 >999 180 TCDI 10.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 6 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MF Weight: 27 lb FT = 20% **BCDL** 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-10-11 oc purlins, except end verticals.

BOT CHORD

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

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

REACTIONS.

(size) 6=Mechanical, 2=0-4-4 Max Horz 2=64(LC 9) Max Uplift 2=-70(LC 12)

Max Grav 6=185(LC 17), 2=379(LC 2)

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); 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
- 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 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 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)



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

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

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



Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697975 25-0577-A J01 Jack-Open 2 Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:20 2024 Page 1 ID:InVYNKydfynyZ5DaPQ61KbyAhdz-u6dlQ2F9WfLrD6p41HGMxSL?m4z5TB823KsbgxzkWgf 2-2-3 2-2-3 0-11-0 Scale = 1:9.0 5.00 12 1-2-15 1-2-15 0-10-9 2 2x4 =3x6 II Plate Offsets (X,Y)-- [2:0-1-14,0-0-10], [2:0-1-4,0-11-14] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) -0.00 5 >999 240 244/190 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.06 Vert(CT) -0.00 5 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a **BCLL** 0.0 * Code IRC2018/TPI2014 FT = 20% Matrix-MF Weight: 9 lb BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 2-2-3 oc purlins. BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

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

- 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 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 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.



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



Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697976 25-0577-A M01 MONOPITCH 5 | Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:21 2024 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541, ID:InVYNKydfynyZ5DaPQ61KbyAhdz-MJB8eOGnHyTiqFOGb_obUft7vTHMCeOCI_c8COzkWge 5-0-0 5-0-0 0-11-0 Scale = 1:14.9 2x4 || 5.00 12 10 0-4-1 0-3-8 2x4 || Plate Offsets (X,Y)-- [2:0-1-14,0-0-10], [2:0-1-4,0-11-14] LOADING (psf) SPACING-2-0-0 CSI. **DEFL** (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.24 Vert(LL) 0.02 4-9 >999 240 244/190 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.19 Vert(CT) -0.03 4-9 >999 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 * Code IRC2018/TPI2014 FT = 20% Matrix-MF Weight: 21 lb BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, BOT CHORD 2x4 SP No.2 except end verticals. WEBS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied 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=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-

- 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) 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 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 ioint 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.



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



Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697977 25-0577-A M01G MONOPITCH GIRDER Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:22 2024 Page 1 ID:InVYNKydfynyZ5DaPQ61KbyAhdz-qVIWrkGQ2GbZSPzT8iJq1tQIWtc7x5eLWeLikqzkWgd 5-0-0 5-0-0 0-11-0 Scale = 1:14.9 2x4 || 5.00 12 0-4-1 0-3-8 9 LUS26 2x4 || 3x4 = LOADING (psf) SPACING-2-0-0 DEFL. **PLATES GRIP** CSI. (loc) I/defl L/d 20.0 TCLL (roof) 240 244/190 Plate Grip DOL 1.15 TC 0.25 Vert(LL) -0.01 4-8 >999 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.22 Vert(CT) -0.02 4-8 >999 180 TCDI 10.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 4 n/a n/a

Matrix-MF

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCLL

BCDL

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

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=73(LC 9)

0.0

10.0

Max Uplift 2=-52(LC 12), 4=-31(LC 9)

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.

Code IRC2018/TPI2014

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
- 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 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 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.
- 11) 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



Weight: 24 lb

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

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

except end verticals.

FT = 20%

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Continued on page 2



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Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697977 MONOPITCH GIRDER 25-0577-A M01G

Riverside Roof Truss, LLC,

Danville, Va - 24541,

| Job Reference (optional) 8.530 s Aug 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)



Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697978 25-0577-A M01GE MONOPITCH STRUCTURAL Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:23 2024 Page 1 ID:InVYNKydfynyZ5DaPQ61KbyAhdz-IhJu34H2pajQ4ZYfiPq3Z4zTPHyqgYuUll5FGGzkWgc 5-0-0 5-0-0 0-11-0

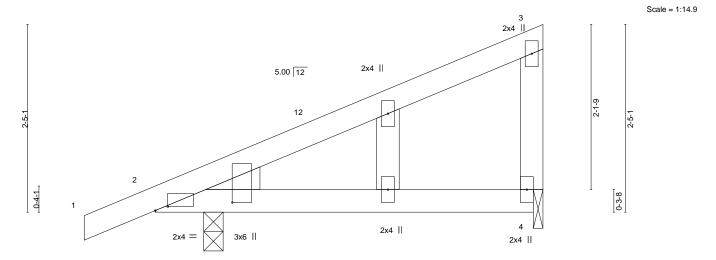


Plate Offsets (X,Y) [2:0-1-14,0-0-10], [2:0-1-4,0-11-14]							
TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.24 BC 0.19 WB 0.00 Matrix-MP	Vert(LL) 0.02 4-11 >999 240 MT: Vert(CT) -0.03 4-11 >999 180 Horz(CT) 0.00 2 n/a n/a	ATES GRIP 20 244/190 ight: 22 lb FT = 20%			

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, **BOT CHORD** 2x4 SP No.2 except end verticals. WEBS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; B=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 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.



February 20,2024



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Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697979 25-0577-A M02 MONOPITCH Job Reference (optional) 8.530 s Oct 7 2022 MiTek Industries, Inc. Mon Feb 19 15:11:58 2024 Page 1 ID:InVYNKydfynyZ5DaPQ61KbyAhdz-nEuCW6klpfVrH2JzH8WGoB3WjqWVv0tqqHoyq3zjXIV Riverside Roof Truss, LLC, Danville, VA. 24541 -0-11-0 5-8-0 0-11-0 5-8-0 Scale = 1:16.8 2x4 II 3 5.00 12 12 10 0-4-1 0-3-8 4 2x4 || 0-7-8 5-8-0 0-7-8 5-0-8 Plate Offsets (X,Y)-- [2:0-1-14,0-0-10], [2:0-1-4,0-11-14] LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP in (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL TC 0.35 Vert(LL) -0.03 4-9 >999 240 MT20 244/190 1 15 Snow (Pf/Pg) 11.6/15.0 BC 0.27 Lumber DOL -0.064-9 >999 180 1.15 Vert(CT) **TCDL** 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 2 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-MP Weight: 23 lb FT = 20%**BCDL** 10.0 LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins, except **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **BOT CHORD WEBS** Rigid ceiling directly applied 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. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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



Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697980 MONOPITCH 25-0577-A M03 Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:25 2024 Page 1

Riverside Roof Truss, LLC,

Danville, Va - 24541,

ID:InVYNKydfynyZ5DaPQ61KbyAhdz-E4ReTmJILBz8Jti2qqsXeV2qZ5fd8SOnCcaML9zkWga

4-2-8 0-11-0 4-2-8

Scale = 1:13.2

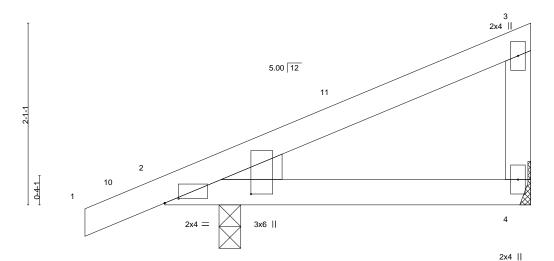


Plate Offsets (X,Y)	[2:0-1-14,0-0-10],	[2:0-1-4,0-11-14]
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LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.14 BC 0.10 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 4-9 >999 240 Vert(CT) -0.01 4-9 >999 180 Horz(CT) 0.00 2 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP		Weight: 18 lb FT = 20%

LUMBER-

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

WEBS 2x4 SP No.3 WEDGE Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-8 oc purlins,

except end verticals.

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

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

Max Horz 2=66(LC 15)

Max Uplift 4=-8(LC 13), 2=-48(LC 16) Max Grav 4=127(LC 21), 2=268(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 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 will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 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



Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697981 HALF HIP GIRDER 25-0577-A SM01G Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:26 2024 Page 1 ID:InVYNKydfynyZ5DaPQ61KbyAhdz-iG?1h6Kw6V6?x1GENYNmBjb_HU?0tuqxRGJvtbzkWgZ 6-2-8 0-11-0 4-2-8 2-0-0 Scale = 1:15.5 4x8 = 3 5.00 12 0-4-1 6 5 2x4 || THJA26 4x4 = 3x4 = 0-7-8 6-2-8 Plate Offsets (X,Y)--[3:0-5-0,0-2-0] LOADING (psf) **DEFL** in (loc) I/defl L/d **PLATES** GRIP Vert(LL) -0.00 6 >999 240 244/190 MT20

TCLL (read) 20.0	SPACING- 2-0-0	CSI.
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.20
Snow (Pf/Pg) 16.5/15.0	·	
TCDL 10.0	Lumber DOL 1.15	BC 0.09
	Rep Stress Incr NO	WB 0.12
BCLL 0.0 *	· ·	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-MP

BRACING-

TOP CHORD

BOT CHORD

Vert(CT)

Horz(CT)

-0.01

0.00

6 >999

5

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

180

n/a

except end verticals, and 2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

n/a

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

(size) 5=Mechanical, 2=0-3-0

Max Horz 2=67(LC 9) Max Uplift 5=-15(LC 9), 2=-45(LC 12) Max Grav 5=366(LC 31), 2=473(LC 32)

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

TOP CHORD 2-3=-351/0

BOT CHORD 2-6=-16/273, 5-6=-12/297 WEBS 3-6=0/283, 3-5=-404/0

NOTES-

LUMBER-

REACTIONS.

- 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); cantilever left and right exposed; end vertical left and right exposed; 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.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 5 and 45 lb uplift at joint 2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Left Hand Hip) or equivalent at 4-2-14 from the left end to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



Weight: 33 lb

FT = 20%

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COAD GASE(S) geStandard



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Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697981 HALF HIP GIRDER 25-0577-A SM01G

Riverside Roof Truss, LLC,

Danville, Va - 24541,

| Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:27 2024 Page 2 ID:InVYNKydfynyZ5DaPQ61KbyAhdz-BTYPuSKYtoEsYBrQxFv?jw791uLFcL34gw3SQ1zkWgY

LOAD CASE(S) Standard

Vert: 6=-263(F)

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)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697982 25-0577-A T01 COMMON 5 Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:28 2024 Page 1 ID:InVYNKydfynyZ5DaPQ61KbyAhdz-ff6n6nLAd6MjAKQcVyQEG8gGZlbRKoTEvao0yUzkWgX 6-0-0 6-0-0 12-0-0 12-11-0

6-0-0

I/defI

>999

>999

n/a

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

(loc)

6-12

6-12

4

-0.05

-0.09

0.01

L/d

240

180

n/a

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

PLATES

Weight: 44 lb

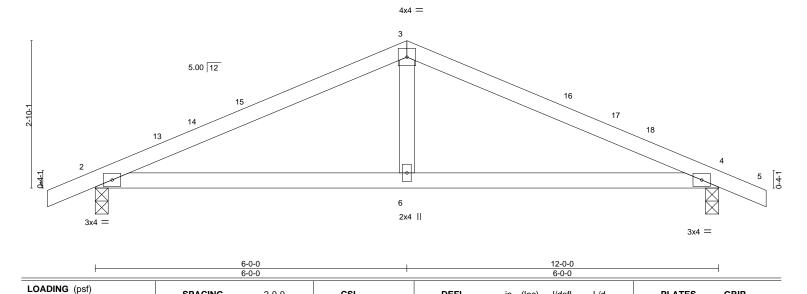
MT20

GRIP

244/190

FT = 20%

0-11-0 Scale = 1:22.2



DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TCLL (roof)

TCDI

BCLL

BCDL

0-11-0

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

WEBS 2x4 SP No.3

Snow (Pf/Pg) 11.6/15.0

REACTIONS. (size) 2=0-3-0, 4=0-3-0 Max Horz 2=-37(LC 14)

20.0

10.0

10.0

0.0

Max Uplift 2=-58(LC 16), 4=-58(LC 16) Max Grav 2=535(LC 2), 4=535(LC 2)

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

2-3=-765/237. 3-4=-765/237 TOP CHORD BOT CHORD 2-6=-119/654, 4-6=-119/654

WEBS 3-6=0/280

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0 , Interior(1) 9-0-0 to 12-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

2-0-0

1.15

1.15

YES

CSI.

TC

ВС

WB

Matrix-MS

0.47

0.48

0.11

- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 2 and 58 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.



February 20,2024



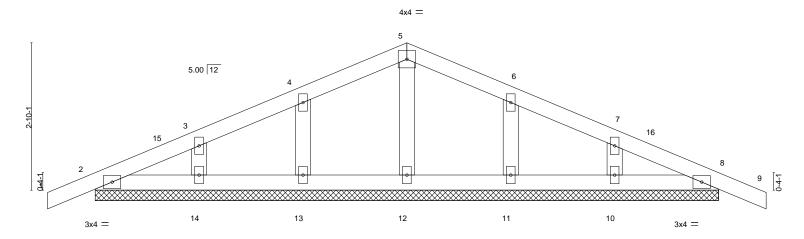
Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697983 25-0577-A T01GE **GABLE** Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:29 2024 Page 1 ID:InVYNKydfynyZ5DaPQ61KbyAhdz-7rg9J7MpOQUaoU?p3gxTpLDYni1f3GrN7EYZUwzkWgW 6-0-0 6-0-0

6-0-0

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

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

0-11-0 Scale = 1:22.2



		12-0-							
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 0.06 BC 0.03 WB 0.03 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.00	(loc) 8 9 8	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 50 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

12-0-0

LUMBER-

0-11-0

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

OTHERS 2x4 SP No.3

REACTIONS. All bearings 12-0-0. Max Horz 2=-37(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-0-0, Exterior(2N) 2-0-0 to 6-0-0, Corner(3R) 6-0-0 to 9-0-0, Exterior(2N) 9-0-0 to 12-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 20,2024

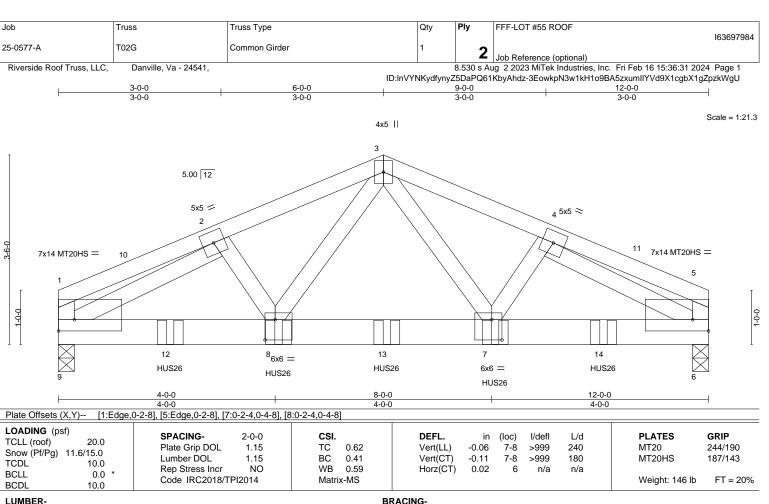


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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP 2400F 2.0E 2x4 SP No.3 *Except* **WEBS** 1-9,5-6: 2x4 SP No.2

REACTIONS. (size) 9=0-3-8, 6=0-3-8 Max Horz 9=53(LC 11)

Max Uplift 9=-283(LC 12), 6=-286(LC 12) Max Grav 9=4424(LC 3), 6=4477(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1155/100, 2-3=-6583/455, 3-4=-6580/455, 4-5=-1164/100, 1-9=-589/60,

5-6=-592/61

8-9=-342/5536, 7-8=-253/4534, 6-7=-342/5534

BOT CHORD 3-7=-173/2862, 4-7=-97/1107, 3-8=-173/2867, 2-8=-97/1109, 2-9=-5430/346, **WEBS**

4-6=-5419/345

NOTES-

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) Unbalanced snow loads have been considered for this design.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=283, 6=286.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left Continue tooh 0 20 20 connect truss(es) to back face of bottom chord.



Structural wood sheathing directly applied or 4-7-7 oc purlins,

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

except end verticals.

February 20,2024

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



Job Truss Truss Type Qty Ply FFF-LOT #55 ROOF 163697984 25-0577-A T02G Common Girder **Z** Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:31 2024 Page 2

Riverside Roof Truss, LLC,

Danville, Va - 24541,

ID:InVYNKydfynyZ5DaPQ61KbyAhdz-3EowkpN3w1kH1o9BA5zxumllYVd9X1cgbX1gZpzkWgU

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)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697985 25-0577-A T02GE COMMON SUPPORTED GAB Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:32 2024 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541, ID:InVYNKydfynyZ5DaPQ61KbyAhdz-XQMIx9OhhLs8fykOkoUAQ_r2kv3PGdbppBmD5FzkWgT 6-0-0 12-0-0 12-11-0 0-11-0 6-0-0 0-11-0 Scale = 1:23.3 4x4 = 5.00 12 6 3 18 3x4 / 3x4 > 8 9-0-16 $3x4 = ^{15}$ 14 13 12 10 3x4 = 12-0-0

LUMBER-

LOADING (psf)

Snow (Pf/Pg) 11.6/15.0

TCLL (roof)

TCDI

BCLL

BCDL

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

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

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

12-0-0

CSI.

TC

ВС

WB

Matrix-S

0.08

0.03

0.03

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

-0.00

-0.00

0.00

except end verticals.

(loc)

9

9

10

I/defl

n/r

n/r

n/a

L/d

120

120

n/a

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

REACTIONS. All bearings 12-0-0.

20.0

10.0

10.0

0.0

Max Horz 16=-61(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; B=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-0-0, Exterior(2N) 2-0-0 to 6-0-0, Corner(3R) 6-0-0 to 9-0-0, Exterior(2N) 9-0-0 to 12-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

2-0-0

1.15

1.15

YES

- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12 11
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



PLATES

Weight: 61 lb

MT20

GRIP

244/190

FT = 20%

February 20,2024



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



Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697986 25-0577-A T03 COMMON 3 Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:33 2024 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541, ID:InVYNKydfynyZ5DaPQ61KbyAhdz-?cwg9VPJSe_?G6JaIW?PzBN4qJKj?3Wz2rWndhzkWgS 12-8-0 13-7-0 0-11-0 6-4-0 6-4-0 0-11-0 Scale = 1:24.7 4x4 = 3 5.00 12 10 14 5x5 / 5x5 > 4x8 = 2x4 2x4 || 12-8-0 6-4-0 Plate Offsets (X,Y)--[2:0-2-4,0-1-12], [4:0-2-4,0-1-12] LOADING (psf) SPACING-2-0-0 CSI. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.69 Vert(LL) -0.03 7-8 >999 240 244/190 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.34 Vert(CT) -0.06 7-8 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.12 Horz(CT) 0.01 6 n/a n/a **BCLL** 0.0 * Code IRC2018/TPI2014 FT = 20% Matrix-MS Weight: 66 lb BCDL 10.0 LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD

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

WEBS

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

2x4 SP No.3 REACTIONS. (size) 8=0-3-8, 6=0-3-8 Max Horz 8=63(LC 15)

Max Uplift 8=-63(LC 16), 6=-63(LC 16) Max Grav 8=559(LC 2), 6=559(LC 2)

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

TOP CHORD 2-3=-621/186, 3-4=-621/187, 2-8=-503/229, 4-6=-503/229

BOT CHORD 7-8=-168/292, 6-7=-125/292 WFBS 2-7=0/286, 4-7=0/286

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 6-4-0, Exterior(2R) 6-4-0 to 9-4-0 , Interior(1) 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 20,2024

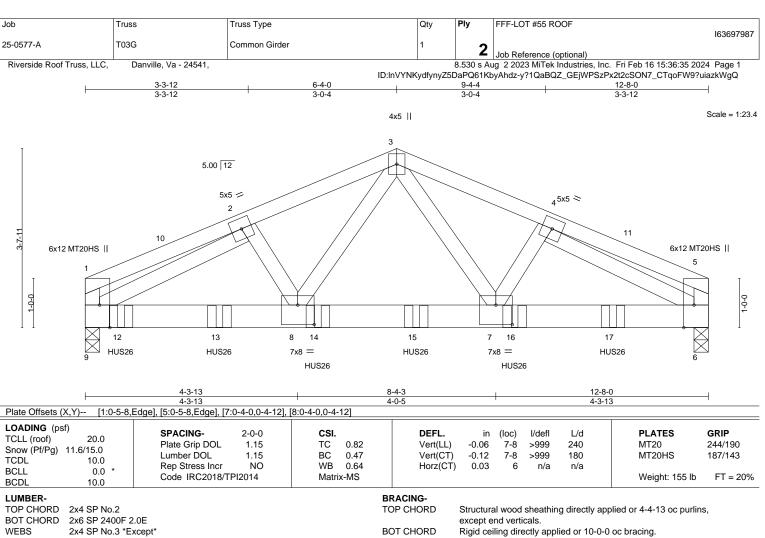


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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





2x4 SP No.3 *Except* **WEBS** 1-9,5-6: 2x4 SP No.2

REACTIONS. (size) 9=0-3-8, 6=0-3-8 Max Horz 9=55(LC 36)

Max Uplift 9=-365(LC 12), 6=-307(LC 12) Max Grav 9=5760(LC 3), 6=4809(LC 3)

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

TOP CHORD 1-2=-1456/121, 2-3=-7130/492, 3-4=-7086/490, 4-5=-1359/116, 1-9=-706/71,

5-6=-668/69

BOT CHORD 8-9=-376/6096, 7-8=-277/4951, 6-7=-374/6051

3-7=-186/3033, 4-7=-100/1061, 3-8=-190/3111, 2-8=-100/1052, 2-9=-5704/362, **WEBS**

NOTES-

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) Unbalanced snow loads have been considered for this design.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=365, 6=307
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-12 from the left Continue tooh 0 20 20 connect truss(es) to back face of bottom chord.



February 20,2024



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

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Job Truss Truss Type Qty Ply FFF-LOT #55 ROOF 163697987 25-0577-A T03G Common Girder **∠** Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:35 2024 Page 2

Riverside Roof Truss, LLC,

Danville, Va - 24541,

ID:lnVYNKydfynyZ5DaPQ61KbyAhdz-y?1QaBQZ_GEjWPSzPx2t2cSON7_CTqoFW9?uiazkWgQ

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)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697988 25-0577-A T03GE COMMON SUPPORTED GAB Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:36 2024 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541, ID:InVYNKydfynyZ5DaPQ61KbyAhdz-QBbpnXRCIZMa8Z19zeZ6bq?kjWQDCQcPkpkRE0zkWgF -0-11-0 0-11-0 12-8-0 13-7-0 6-4-0 6-4-0 0-11-0 Scale = 1:24.2 4x4 =5 5.00 12 6 3 3x4 = 3x4 < 8 9-0-1 >>>>16 13 12 10 15 3x4 = 3x4 = 12-8-0

LUMBER-

LOADING (psf)

Snow (Pf/Pg) 11.6/15.0

TCLL (roof)

TCDI

BCLL

BCDL

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

20.0

10.0

10.0

0.0

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

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

12-8-0

CSI.

TC

ВС

WB

Matrix-S

0.08

0.04

0.03

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

I/defl

n/r

n/r

n/a

L/d

120

120

n/a

except end verticals.

(loc)

9

9

10

-0.00

-0.00

0.00

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

REACTIONS. All bearings 12-8-0.

Max Horz 16=63(LC 15) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; B=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-4-0, 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 DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

2-0-0

1.15

1.15

YES

- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12 11
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



PLATES

Weight: 65 lb

MT20

GRIP

244/190

FT = 20%

February 20,2024



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6-2-13

25-2-13

6-2-13

28-4-4

except end verticals.

1 Row at midpt

6-2-13

Scale: 3/16"=1

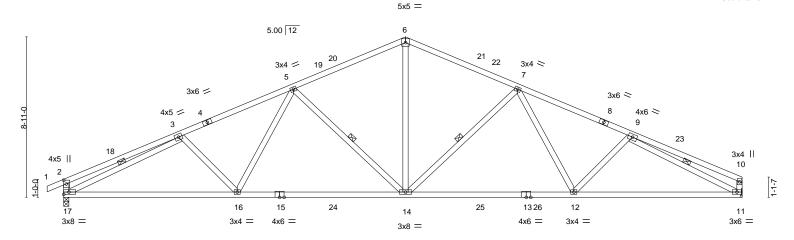
6-2-13

37-8-8

Structural wood sheathing directly applied or 3-1-15 oc purlins,

5-14, 7-14, 3-17, 9-11

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



9-7	7-12	9-4-4	9-4-4	9-4-4	
Plate Offsets (X,Y) [2:0-2-8,	,0-1-12]				
CADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.77 BC 0.87 WB 0.75 Matrix-MS	DEFL. in (loc) l/defl Vert(LL) -0.28 12-14 >999 Vert(CT) -0.50 12-14 >900 Horz(CT) 0.13 11 n/a	L/d PLATES 240 MT20 180 n/a Weight: 210 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

19-0-0

LUMBER-

0-11-0

6-6-5

6-2-13

2x4 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.3

REACTIONS. (size) 17=0-3-8, 11=Mechanical

Max Horz 17=159(LC 15)

Max Uplift 17=-124(LC 16), 11=-90(LC 16) Max Grav 17=1711(LC 28), 11=1656(LC 29)

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

TOP CHORD 2-3=-605/101, 3-5=-2802/253, 5-6=-2074/267, 6-7=-2074/269, 7-9=-2755/257,

9-10=-402/63, 2-17=-449/143, 10-11=-292/74

16-17=-216/2656, 14-16=-157/2385, 12-14=-142/2308, 11-12=-208/2488 BOT CHORD WEBS 5-16=0/477, 5-14=-714/135, 6-14=-65/1258, 7-14=-680/133, 7-12=0/435,

3-17=-2376/180, 9-11=-2508/220

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 2-10-4, Interior(1) 2-10-4 to 19-0-0, Exterior(2R) 19-0-0 to 22-9-4, Interior(1) 22-9-4 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 17=124
- 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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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697990 25-0577-A T04GE COMMON SUPPORTED GAB 2 Job Reference (optional)

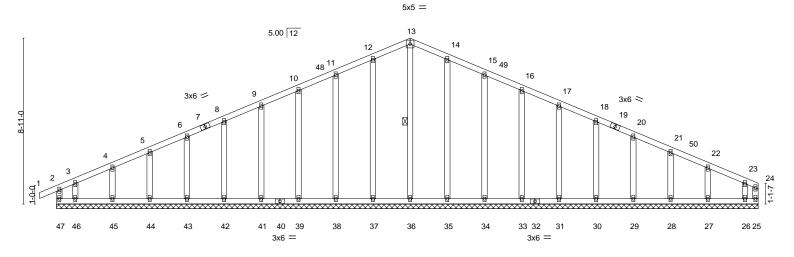
Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:40 2024 Page 1 ID:InVYNKydfynyZ5DaPQ61KbyAhdz-IzrJduUipos0cALwCUd2lgAP58os8CU?fRieNnzkWgL

0-11-0 19-0-0 18-8-8

Scale = 1:61.9



37-8-8 37-8-8								
CADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.11 BC 0.06 WB 0.17 Matrix-R	Vert(CT)	in (loc) -0.00 1 -0.00 1 -0.00 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 2x4 SP No.2

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

2x4 SP No.3

BRACING-

BOT CHORD

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

except end verticals.

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

WEBS 1 Row at midpt 13-36

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. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) 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.
- 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).
- Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



February 20,2024

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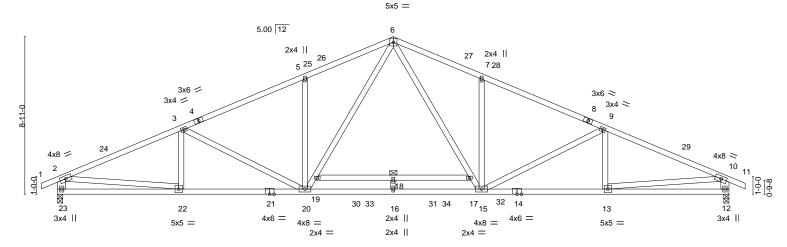
Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697991 25-0577-A T05 COMMON Job Reference (optional)

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

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ID:InVYNKydfynyZ5DaPQ61KbyAhdz-FLy42aWyKP7ksUVJJvgWq5FcwxF5c?_H7lBlRgzkWgJ 14-0-0 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 0-11-0

Scale = 1:65.2



7-0-0	14-0-0	19-0-0	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- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.67 BC 0.90 WB 0.62 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/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-2x4 SP No.2 TOP CHORD

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

14-21: 2x4 SP DSS **WEBS** 2x4 SP No.3 *Except*

2-23,10-12: 2x6 SP No.2, 2-22,10-13: 2x4 SP No.2

TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins,

except end verticals. **BOT CHORD**

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

6-0-0 oc bracing: 17-19

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

TOP CHORD $2-3 = -3253/131, \ 3-5 = -2987/128, \ 5-6 = -2978/208, \ 6-7 = -2978/208, \ 7-9 = -2987/128, \ 7-9 = -2987$

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,

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 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





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

8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:44 2024 Page 1

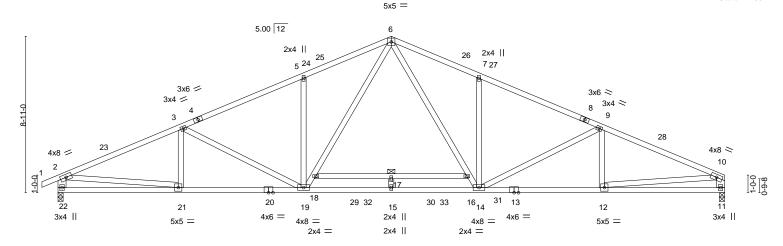
Structural wood sheathing directly applied, except end verticals.

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

6-0-0 oc bracing: 16-18

ID:InVYNKydfynyZ5DaPQ61KbyAhdz-Bk4qTGXDs1NR5ofhRKi_wWKwilxV4u4aa3gsWYzkWgH 24-0-0 31-0-0 38-0-0 -0-11-0 0-11-0 7-0-0 7-0-0 5-0-0 5-0-0 7-0-0 7-0-0

Scale = 1:65.7



7-0-0	14-0-0	19-0-0	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- 2-0-0 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) I/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-

TOP CHORD

BOT CHORD

LUMBER-

WEBS

2x4 SP No.2

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

13-20: 2x4 SP DSS 2x4 SP No.3 *Except*

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

9-10=-3261/141. 2-22=-1768/168. 10-11=-1708/120 21-22=-100/552, 19-21=-91/3032, 15-19=0/2109, 14-15=0/2109, 12-14=-90/2958,

BOT CHORD

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

- 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.
- * 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.



February 20,2024



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Job Truss Truss Type Qty Ply FFF-LOT #55 ROOF 163697993 25-0577-A T06 Common 5 Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:45 2024 Page 1 ID:InVYNKydfynyZ5DaPQ61KbyAhdz-fweCgbYrdKVIjyDu?1DDSjtC59OSpTNkpjQP2?zkWgG 21-0-0 0-11-0 0-11-0 10-0-8 15-0-12 20-1-0 5-0-4 5-0-4 5-0-4 Scale = 1:36.8 4x4 = 6.00 12 20 21 2x4 \\ 2x4 // 18 3 22 10 9 8 3x4 = 3x4 =3x4 =13-4-11 20-1-0 6-8-5 LOADING (psf) SPACING-2-0-0 DEFL. L/d **PLATES GRIP** CSI. (loc) I/defl TCLL (roof) 20.0 Vert(LL) -0.04 240 244/190 Plate Grip DOL 1.15 TC 0.35 8-10 >999 MT20

LUMBER-

REACTIONS.

TCDI

BCLL

BCDL

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

10.0

10.0

(size)

0.0

WEBS 2x4 SP No.3

Snow (Pf/Pg) 11.6/15.0

Max Horz 2=-91(LC 14) Max Uplift 2=-78(LC 16), 6=-78(LC 16) Max Grav 2=858(LC 2), 6=858(LC 2)

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

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

TOP CHORD 2-3=-1389/244, 3-4=-1228/251, 4-5=-1228/251, 5-6=-1389/244

BOT CHORD 2-10=-143/1195, 8-10=-30/788, 6-8=-150/1195

2=0-3-8, 6=0-3-8

WEBS 4-8=-58/460, 5-8=-299/156, 4-10=-58/460, 3-10=-299/156

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 10-0-8, Exterior(2R) 10-0-8 to 13-0-8, Interior(1) 13-0-8 to 21-0-0 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

1.15

YES

ВС

WB

Matrix-MS

0.48

0.19

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.11

0.03

8-10

6

>999

n/a

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

180

n/a

Structural wood sheathing directly applied or 4-9-13 oc purlins.

- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



Weight: 93 lb

FT = 20%

February 20,2024



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Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697994 25-0577-A T06GE Common Supported Gable

4x4 =

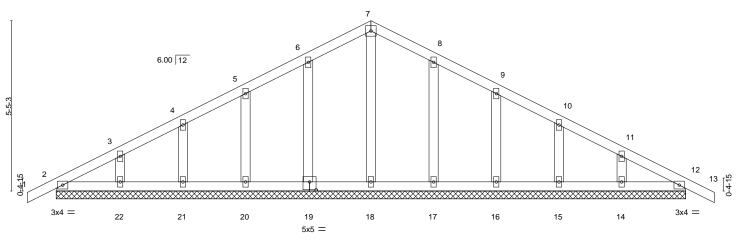
Riverside Roof Truss, LLC, Danville, Va - 24541, Job Reference (optional)

10-0-8

8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:47 2024 Page 1 ID:InVYNKydfynyZ5DaPQ61KbyAhdz-bJmz5Ha59yl0yFNG6SFhX8ydEyBrHP_0G1vW7tzkWgE

-0-11-0 0-11-0 10-0-8 0-11-0

Scale = 1:36.8



[19.0-2-8 0-3-0]

Plate Offsets (X,Y) [19:0-2-8	3,0-3-0]							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.06 BC 0.03 WB 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.00 12 -0.00 13 0.00 12	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 102 lb	FT = 20%

LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 20-1-0.

Max Horz 2=91(LC 15) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 21, 22, 17, 16, 15, 14, 12

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-0-8, Exterior(2N) 2-0-8 to 10-0-8, Corner(3R) 10-0-8 to 13-0-8, Exterior(2N) 13-0-8 to 21-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



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



Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697995 25-0577-A V01 Valley Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:48 2024 Page 1

ID:InVYNKydfynyZ5DaPQ61KbyAhdz-3VKLIdbjwFttaPySg9nw4MVI7MWd0sPAVhe4fJzkWgD 4-3-8 4-3-8

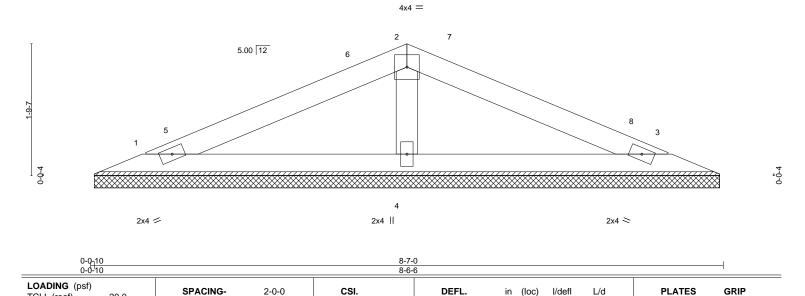
Scale = 1:15.6

244/190

FT = 20%

MT20

Weight: 26 lb



TC

ВС

WB

Matrix-P

0.24

0.13

0.04

LUMBER-

TCLL (roof)

TCDI

BCLL

BCDL

Snow (Pf/Pg) 11.6/15.0

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

OTHERS 2x4 SP No.3

20.0

10.0

10.0

0.0

BRACING-

TOP CHORD BOT CHORD

Vert(LL)

Vert(CT)

Horz(CT)

n/a

n/a

0.00

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

999

999

n/a

n/a

n/a

n/a

3

REACTIONS.

1=8-5-13, 3=8-5-13, 4=8-5-13 (size) Max Horz 1=-19(LC 14) Max Uplift 1=-20(LC 16), 3=-20(LC 16)

Max Grav 1=141(LC 20), 3=141(LC 21), 4=287(LC 2)

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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

NOTES-

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

1.15

1.15

YES

- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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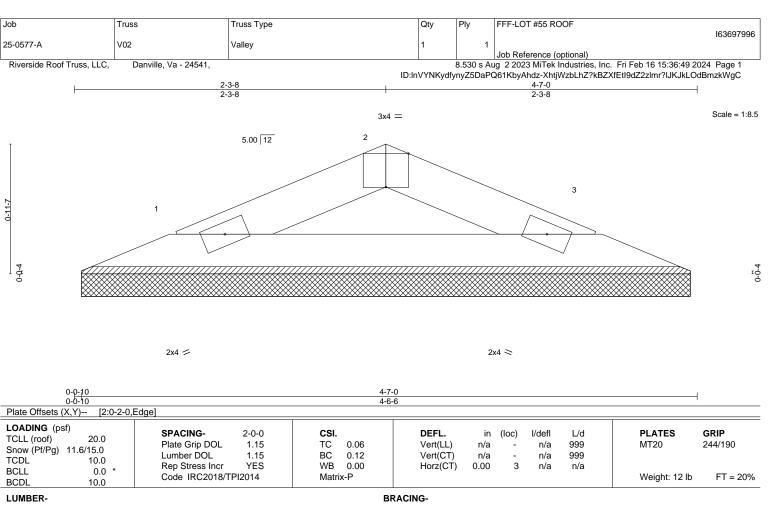


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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property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





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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-7-0 oc purlins.

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

REACTIONS.

1=4-5-13, 3=4-5-13 (size) Max Horz 1=-8(LC 14) Max Uplift 1=-7(LC 16), 3=-7(LC 16)

Max Grav 1=123(LC 2), 3=123(LC 2)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 20,2024



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Job Truss Truss Type Qty FFF-LOT #55 ROOF 163697997 25-0577-A V03 Valley Job Reference (optional) 8.530 s Aug 2 2023 MiTek Industries, Inc. Fri Feb 16 15:36:50 2024 Page 1 Riverside Roof Truss, LLC, Danville, Va - 24541, ID:InVYNKydfynyZ5DaPQ61KbyAhdz-0uR5jJc_St7bpj6rnapO9na6OABRUmxTy?7AkCzkWgB 3-11-8 3-11-8 Scale = 1:14.5 4x4 = 2 5.00 12 3 2x4 = 2x4 II 2x4 >

7-10-6

BRACING-

TOP CHORD

BOT CHORD

CSI.

TC

ВС

WB

Matrix-P

0.19

0.10

0.04

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

I/defI

n/a

n/a

n/a

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

(loc)

3

n/a

n/a

0.00

L/d

999

999

n/a

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

PLATES

Weight: 24 lb

MT20

GRIP

244/190

FT = 20%

LUMBER-

REACTIONS.

LOADING (psf)

Snow (Pf/Pg) 11.6/15.0

TCLL (roof)

TCDI

BCLL

BCDL

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

20.0

10.0

10.0

0.0

BOT CHORD OTHERS 2x4 SP No.3

1=7-9-13, 3=7-9-13, 4=7-9-13 (size)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Horz 1=17(LC 15) Max Uplift 1=-18(LC 16), 3=-18(LC 16)

Max Grav 1=126(LC 2), 3=126(LC 2), 4=260(LC 2)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

2-0-0

1.15

1.15

YES

- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 20,2024

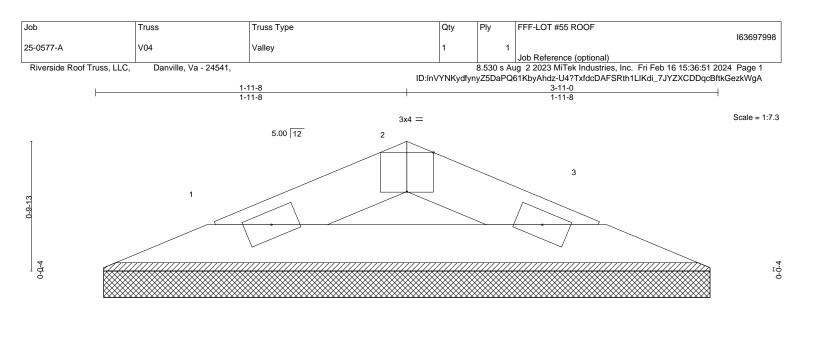


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3-10-6 3-10-6 Plate Offsets (X,Y)-- [2:0-2-0,Edge] LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.04 Vert(LL) 999 MT20 244/190 n/a n/a Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.07 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 * Code IRC2018/TPI2014 FT = 20% Matrix-P Weight: 10 lb BCDL 10.0

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** 2x4 >

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

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

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.

2x4 /

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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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Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

₹

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

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

PLATE SIZE

4 × 4

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

LATERAL BRACING LOCATION



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

BEARING



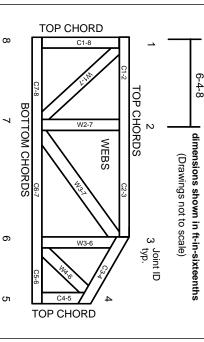
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

Industry Standards: ANSI/TPI1: National Design Specification for Metal

DSB-22:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MITOK



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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

'n

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

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

or other loads other than those expressly stated.