

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 24-3350-A
RVF-LOT #8 ROOF

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

Pages or sheets covered by this seal: I66043307 thru I66043348

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

North Carolina COA: C-0844



June 6, 2024

Gilbert, Eric

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

| | | | | | | |
|------------------|---------------|-----------------------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss CJ01 | Truss Type DIAGONAL HIP GIRDER | Qty 2 | Ply 1 | RVF-LOT #8 ROOF | 166043307 |
|------------------|---------------|-----------------------------------|----------|----------|-----------------|-----------|

Riverside Roof Truss, LLC,

Danville, Va - 24541,

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Job Reference (optional)



Scale = 1:18.8

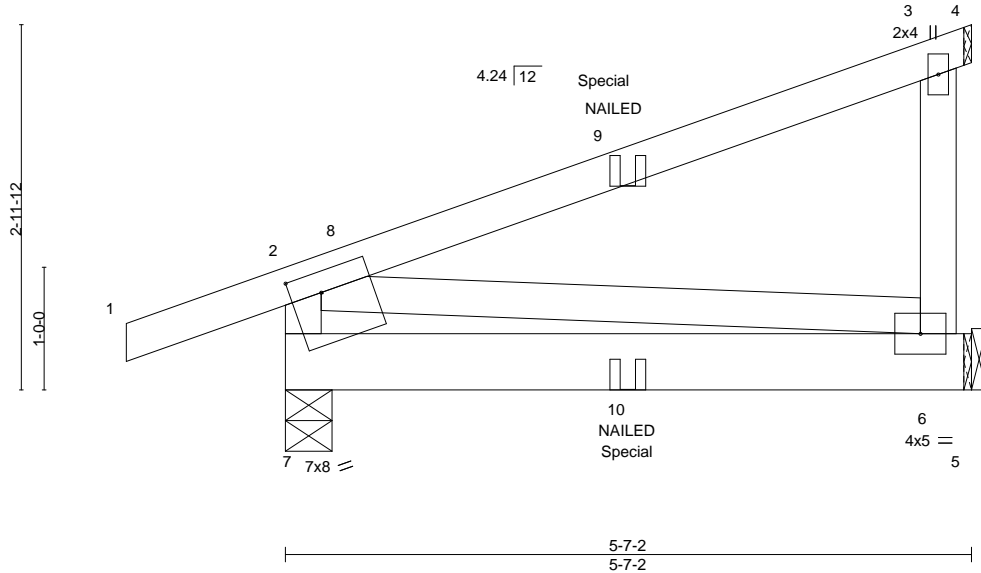


Plate Offsets (X, Y)-- [7:0-3-0,0-2-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|-----------|-----------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.58 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.15 | Vert(LL) -0.01 6-7 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.02 | Vert(CT) -0.02 6-7 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr NO | Matrix-MP | Horz(CT) -0.00 6 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 35 lb | FT = 20% |

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

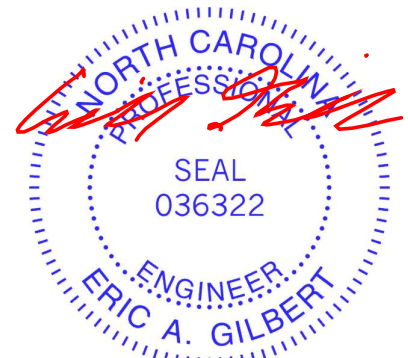
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-7-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-4-9, 6=Mechanical
 Max Horz 7=95(LC 9)
 Max Uplift 7=-83(LC 12), 6=-38(LC 12)
 Max Grav 7=305(LC 2), 6=232(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-254/89

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 7 and 38 lb uplift at joint 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.
 - 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-43, 2-3=-43, 3-4=-43, 5-7=-20



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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/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)



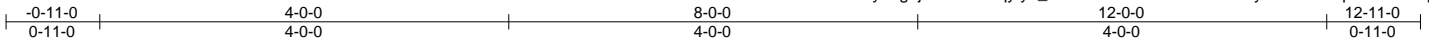
818 Soundside Road
 Edenton, NC 27932

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|------------------|---------------|--------------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss HG01 | Truss Type HIP GIRDER | Qty 1 | Ply 2 | RVF-LOT #8 ROOF Job Reference (optional) | 166043308 |
|------------------|---------------|--------------------------|----------|----------|---|-----------|

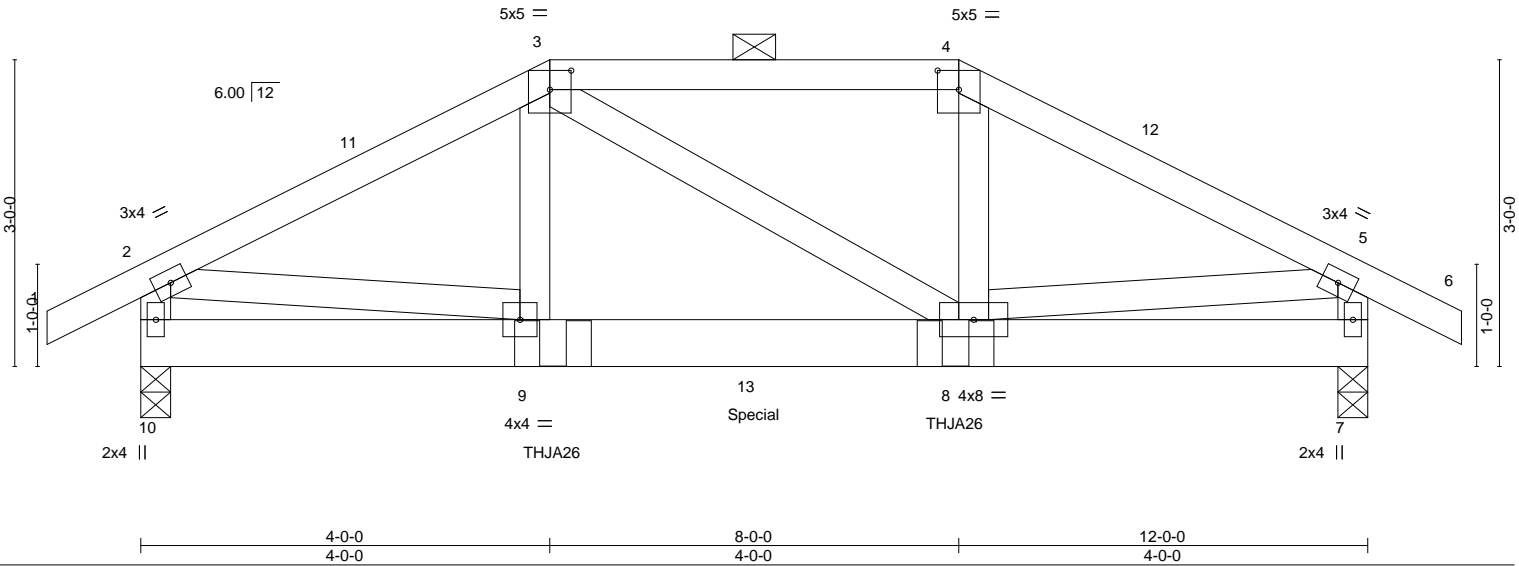
Riverside Roof Truss, LLC, Danville, Va - 24541,

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Scale = 1:22.5



| | |
|------------------------|----------------------------------|
| Plate Offsets (X, Y)-- | [3:0-2-8,0-2-4], [4:0-2-8,0-2-4] |
|------------------------|----------------------------------|

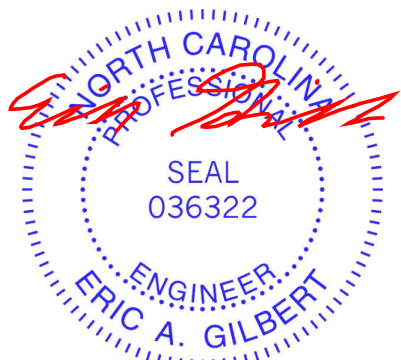
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|-----------|-----------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.17 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Plate Grip DOL 1.15 | BC 0.18 | Vert(LL) -0.01 8-9 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.19 | Vert(CT) -0.02 8-9 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr NO | Matrix-MS | Horz(CT) 0.00 7 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 151 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4. |
| BOT CHORD 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |

REACTIONS. (size) 10=0-3-8, 7=0-3-8
 Max Horz 10=63(LC 11)
 Max Uplift 10=-175(LC 12), 7=-172(LC 12)
 Max Grav 10=952(LC 35), 7=943(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1203/234, 3-4=-1024/224, 4-5=-1196/232, 2-10=-907/193, 5-7=-897/191
 BOT CHORD 8-9=-173/1012
 WEBS 3-9=-59/334, 4-8=-68/361, 2-9=-162/919, 5-8=-162/910

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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=16.5 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 10 and 172 lb uplift at joint 7.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Continued on page 2

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 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/TP1 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)

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

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|------------------|---------------|--------------------------|----------|-----------------|---|-----------|
| Job 24-3350-A | Truss HG01 | Truss Type HIP GIRDER | Qty 1 | Ply 2 | RVF-LOT #8 ROOF Job Reference (optional) | I66043308 |
|------------------|---------------|--------------------------|----------|-----------------|---|-----------|

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

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NOTES-

- 14) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 4-0-6 from the left end to connect truss(es) to front face of bottom chord.
- 15) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 7-11-10 from the left end to connect truss(es) to front face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 134 lb down and 46 lb up at 6-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-43, 2-3=-43, 3-4=-53, 4-5=-43, 5-6=-43, 7-10=-20

Concentrated Loads (lb)

Vert: 9=-338(F) 8=-338(F) 13=-134(F)

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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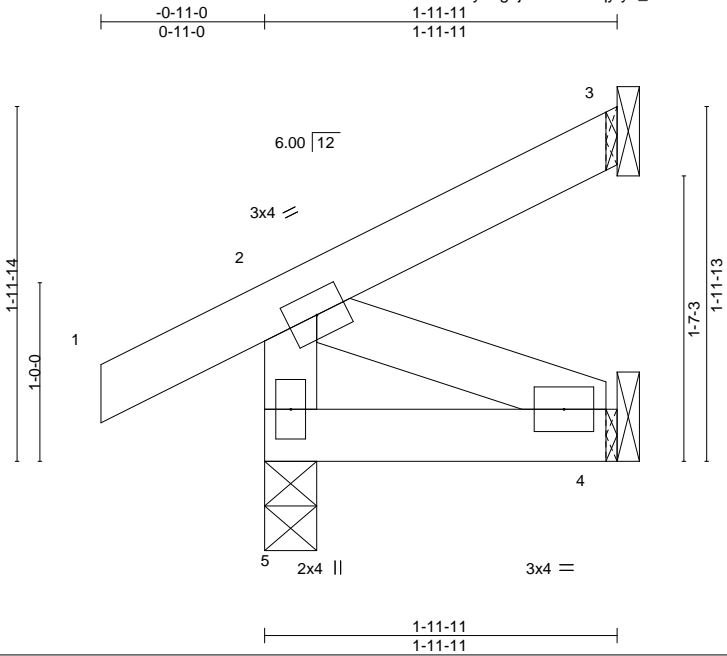
818 Soundside Road
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|------------------|--------------|-------------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss J01 | Truss Type Jack-Open | Qty 4 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | 166043309 |
|------------------|--------------|-------------------------|----------|----------|---|-----------|

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

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Scale = 1:12.9

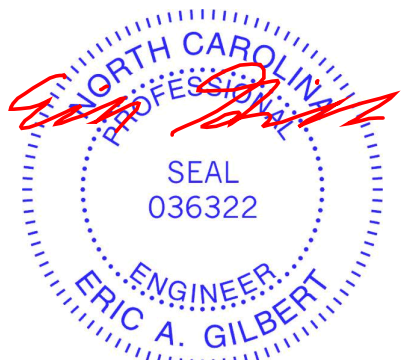
| | | | | | |
|------------------------|----------------------|-------------|-----------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.08 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.03 | Vert(LL) -0.00 5 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.03 | Vert(CT) -0.00 4-5 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-MP | Horz(CT) -0.00 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 11 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 1-11-11 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=67(LC 16)
 Max Uplift 5=-20(LC 16), 3=-10(LC 13), 4=-14(LC 16)
 Max Grav 5=158(LC 21), 3=37(LC 21), 4=35(LC 7)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 5, 10 lb uplift at joint 3 and 14 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.



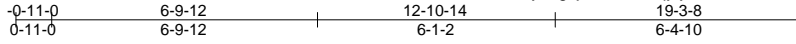
June 6, 2024

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|------------------|--------------|-------------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss M01 | Truss Type MONOPITCH | Qty 3 | Ply 1 | RVF-LOT #8 ROOF | 166043310 |
|------------------|--------------|-------------------------|----------|----------|-----------------|-----------|

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

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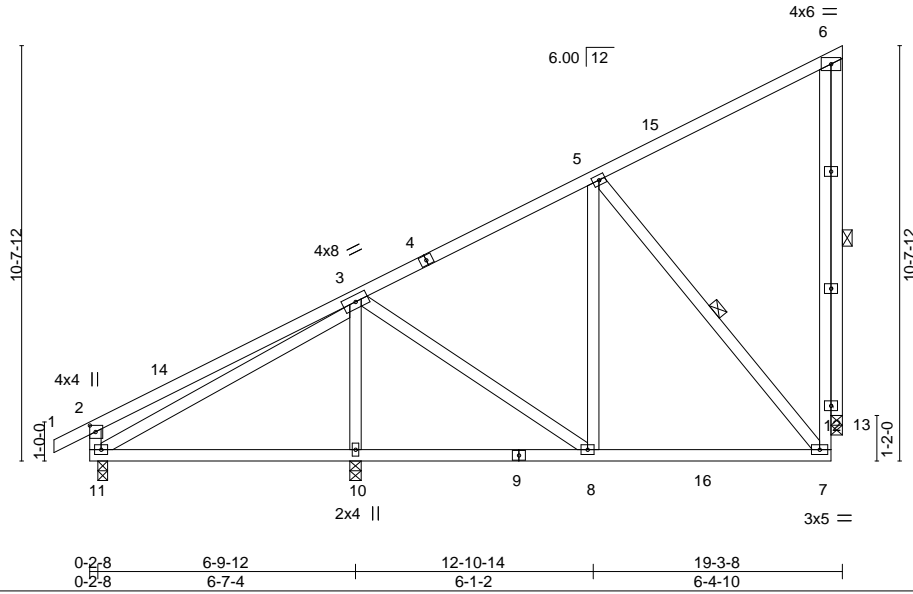


Plate Offsets (X,Y)-- [2:0-2-0,0-1-12]

| | | | | | | | | | | | |
|----------------------|-----------|----------------------|-------|-------------|------|--------------|-----------|--------|-----|----------------|-------------|
| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.56 | Vert(LL) | -0.06 7-8 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 11.6/15.0 | Lumber DOL | 1.15 | BC | 0.36 | Vert(CT) | -0.10 7-8 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.34 | Horz(CT) | -0.02 13 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2018/TPI2014 | | Matrix-MS | | | | | | Weight: 142 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | |

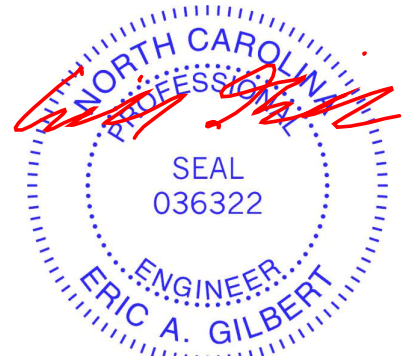
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-7, 6-13

REACTIONS. (size) 11=0-3-0, 10=0-3-8, 13=0-3-8
Max Horz 11=310(LC 16)
Max Uplift 10=40(LC 16), 13=108(LC 16)
Max Grav 11=330(LC 2), 10=904(LC 28), 13=556(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-376/180, 3-5=-373/0, 7-12=-86/423, 6-12=-86/423, 2-11=-378/198
BOT CHORD 7-8=-103/295
WEBS 3-11=-311/290, 3-10=-666/184, 3-8=0/277, 5-7=-420/149, 6-13=-556/165

- 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 18-10-4 zone; cantilever left and right exposed ; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=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) All plates are 3x4 MT20 unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 10 and 108 lb uplift at joint 13.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6, 2024

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

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

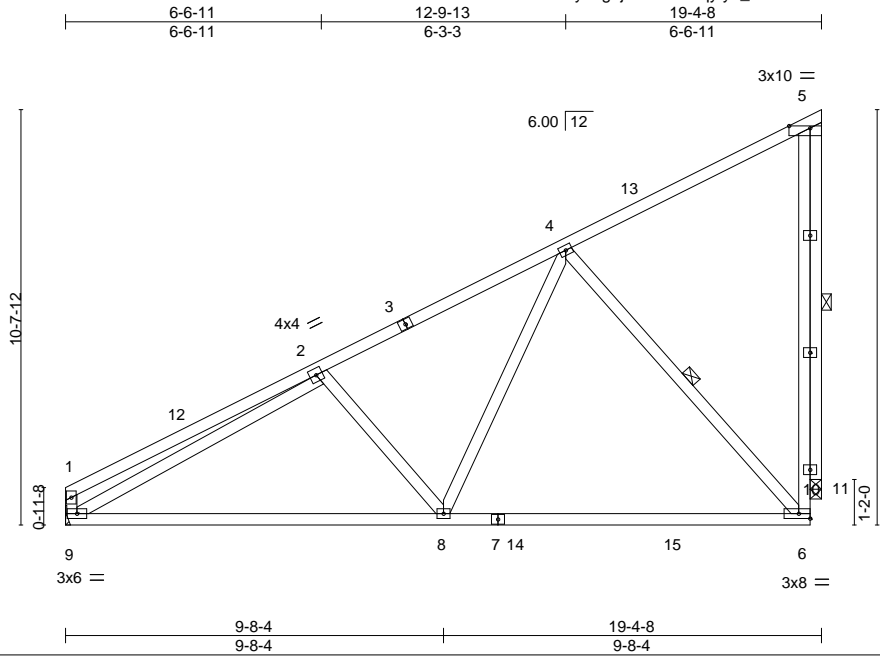


818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------------|---------------|-------------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss M01A | Truss Type Monopitch | Qty 2 | Ply 1 | RVF-LOT #8 ROOF | 166043311 |
|------------------|---------------|-------------------------|----------|----------|-----------------|-----------|

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:52:44 2024 Page 1
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Scale = 1:59.1

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|-----------|-----------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.70 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.76 | Vert(LL) -0.31 6-8 >732 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.81 | Vert(CT) -0.48 6-8 >475 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-MS | Horz(CT) -0.05 11 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 132 lb | FT = 20% |

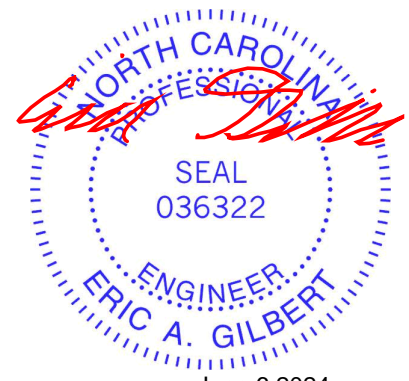
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
7-9: 2x4 SP No.1
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6, 5-11

REACTIONS. (size) 9=Mechanical, 11=0-3-8
Max Horz 9=287(LC 16)
Max Uplift 11=122(LC 16)
Max Grav 9=864(LC 28), 11=890(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-426/99, 2-4=-989/14, 6-10=-121/762, 5-10=-121/762, 1-9=-321/106
BOT CHORD 8-9=-294/1020, 6-8=-150/567
WEBS 2-8=-299/207, 4-8=-29/688, 4-6=-799/218, 2-9=-770/0, 5-11=-891/201

- 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) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 18-11-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=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) All plates are 3x4 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 11.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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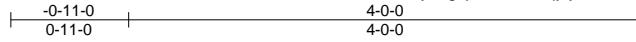


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|------------------|--------------|-------------------------|----------|----------|------------------------------|
| Job 24-3350-A | Truss M02 | Truss Type MONOPITCH | Qty 3 | Ply 1 | RVF-LOT #8 ROOF 166043312 |
|------------------|--------------|-------------------------|----------|----------|------------------------------|

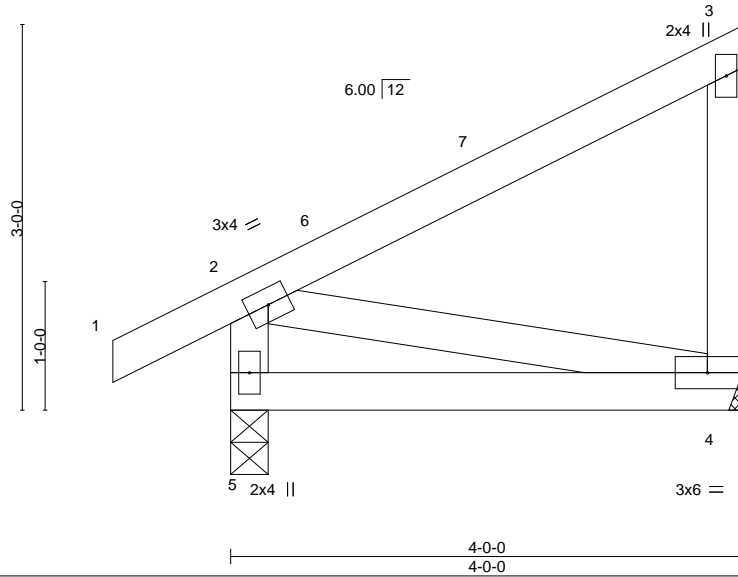
Riverside Roof Truss, LLC, Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:52:44 2024 Page 1

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Scale = 1:17.9



| | | | | | |
|------------------------|----------------------|-------------|-----------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.26 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.16 | Vert(LL) -0.01 4-5 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.06 | Vert(CT) -0.02 4-5 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-MP | Horz(CT) -0.00 4 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 24 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |

REACTIONS. (size) 5=0-3-8, 4=Mechanical
 Max Horz 5=97(LC 13)
 Max Uplift 5=-39(LC 16), 4=-26(LC 13)
 Max Grav 5=221(LC 2), 4=155(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 3-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 5 and 26 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.

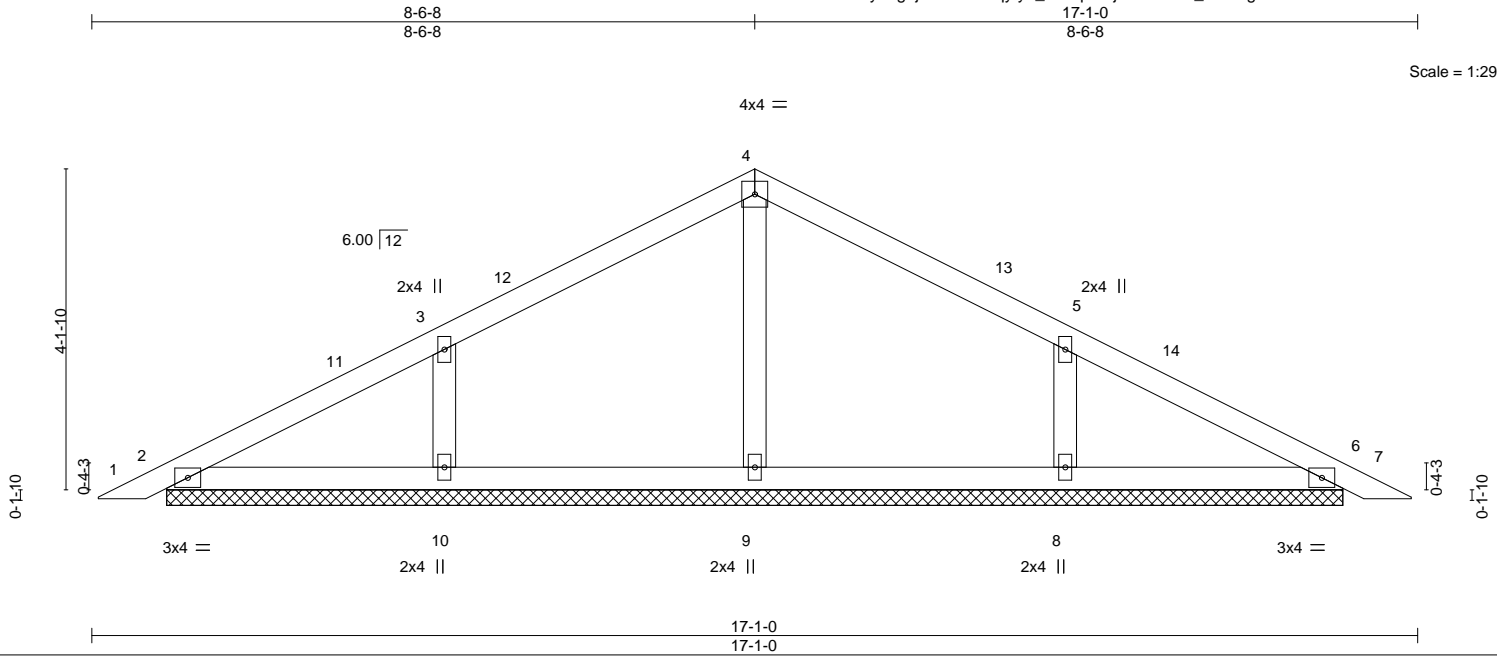


| | | | | | | |
|------------------|---------------|-------------------------|-----------|----------|---|-----------|
| Job 24-3350-A | Truss PB01 | Truss Type Piggyback | Qty 24 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | 166043313 |
|------------------|---------------|-------------------------|-----------|----------|---|-----------|

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

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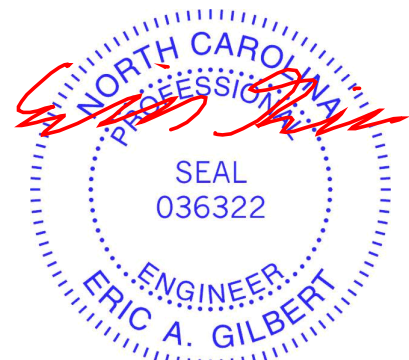
| | | | | | |
|------------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.21 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.12 | Vert(LL) 0.00 7 n/r 120 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.06 | Vert(CT) 0.00 7 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 6 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 61 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |

REACTIONS. All bearings 15-1-14.
(lb) - Max Horz 2=67(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=268(LC 2), 10=355(LC 34), 8=355(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-266/177, 5-8=-266/177

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-11 to 3-4-11, Interior(1) 3-4-11 to 8-6-8, Exterior(2R) 8-6-8 to 11-6-8, Interior(1) 11-6-8 to 16-8-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=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.
 - 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

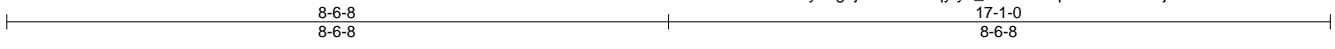


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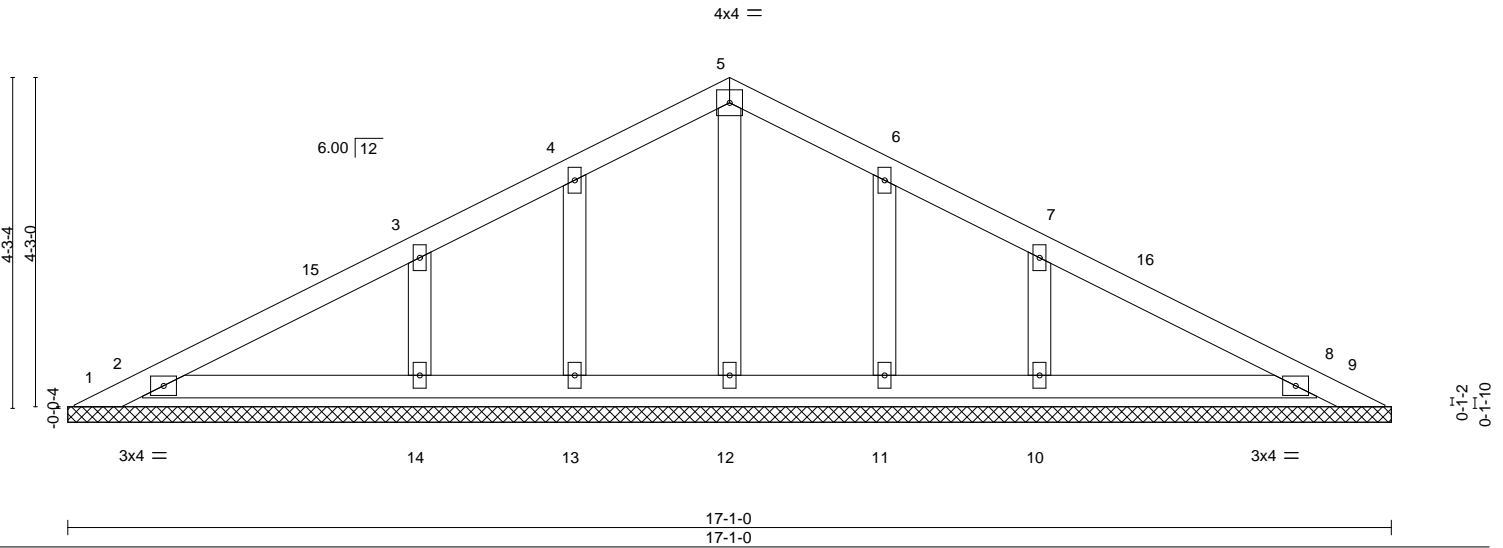
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|------------------|-----------------|---------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss PB01GE | Truss Type GABLE | Qty 2 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | 166043314 |
|------------------|-----------------|---------------------|----------|----------|---|-----------|

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

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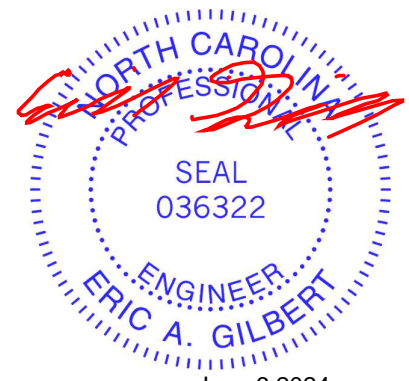
| | | | | | |
|------------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.15 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.08 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.05 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 8 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 68 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |

REACTIONS. All bearings 17-1-0.
 (lb) - Max Horz 1=67(LC 15)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 2, 8, 13, 14, 11, 10 except 1=110(LC 28)
 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 12, 13, 11 except 2=288(LC 2), 8=288(LC 2), 14=251(LC 2), 10=251(LC 2)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-4-11 to 3-4-11, Exterior(2N) 3-4-11 to 8-6-8, Corner(3R) 8-6-8 to 11-6-8, Exterior(2N) 11-6-8 to 16-8-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2, 8, 13, 14, 11, 10 except (jt=lb) 1=110.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



| | | | | | | |
|------------------|--------------|----------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss T01 | Truss Type COMMON | Qty 2 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | 166043315 |
|------------------|--------------|----------------------|----------|----------|---|-----------|

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:52:46 2024 Page 1
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4x4 =

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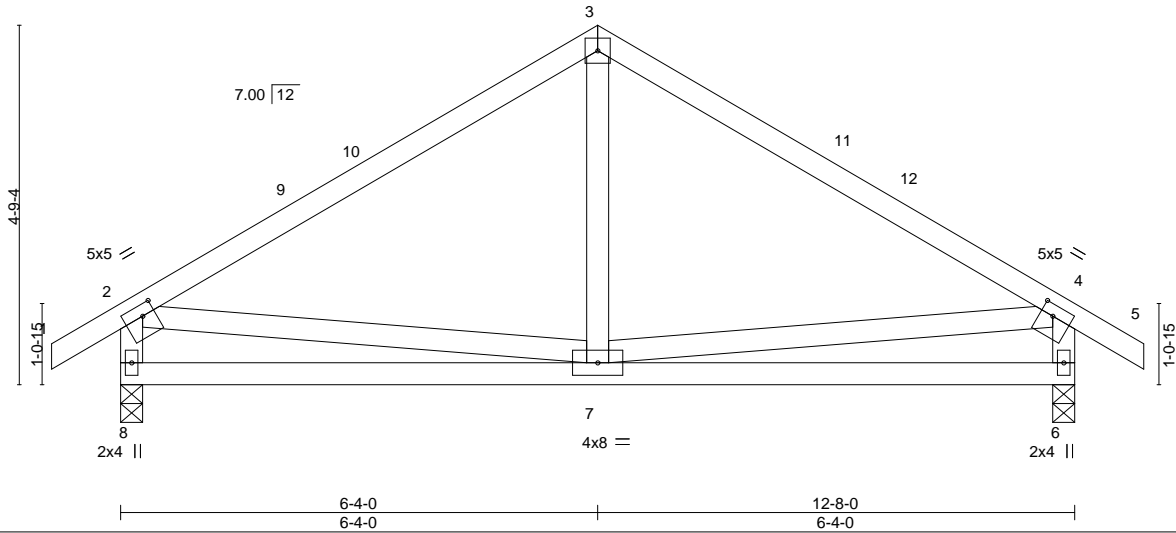


Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [4:0-2-0,0-1-12]

| | | | | | | | | | | | |
|----------------------|-----------|----------------------|-------|-------------|--------------|-------|-------|--------|-----|---------------|-------------|
| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | Vert(LL) | -0.03 | 7-8 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 11.6/15.0 | Lumber DOL | 1.15 | BC | Vert(CT) | -0.06 | 7-8 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2018/TPI2014 | | Matrix-MS | | | | | | Weight: 70 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | |

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

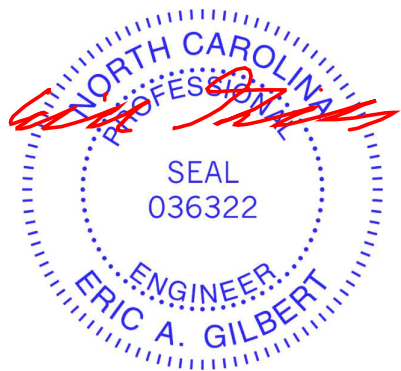
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 6=0-3-8
Max Horz 8=-112(LC 14)
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=-537/108, 3-4=-537/108, 2-8=-503/160, 4-6=-503/160
BOT CHORD 7-8=-123/315, 6-7=-91/251

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- 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.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

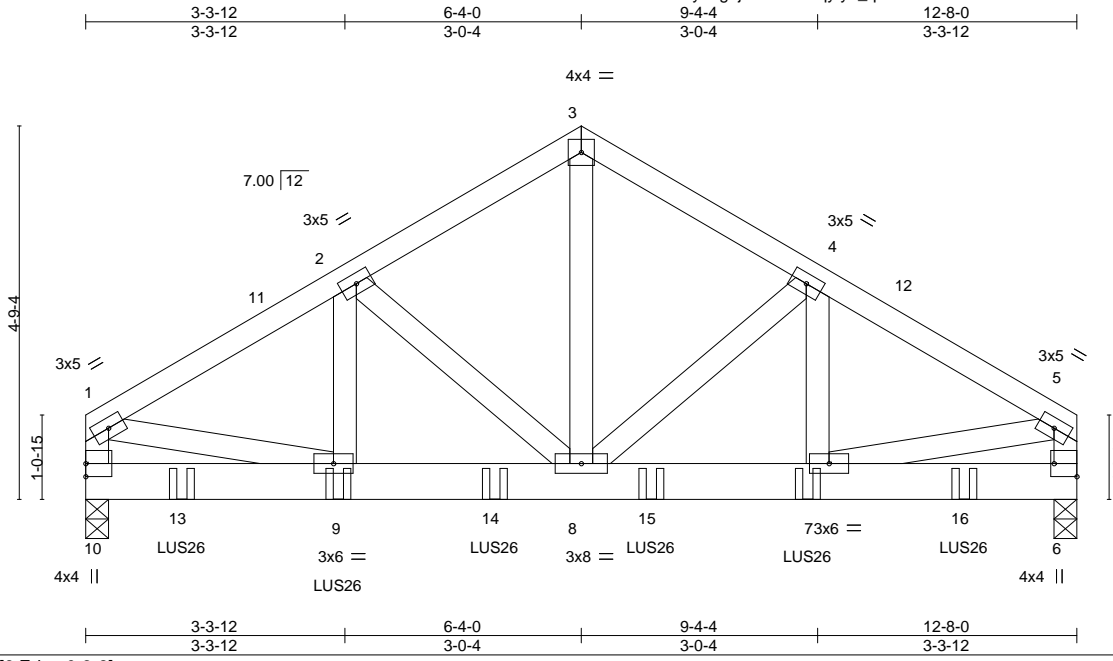


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|------------------|---------------|-----------------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss T01G | Truss Type COMMON GIRDER | Qty 1 | Ply 2 | RVF-LOT #8 ROOF | I66043316 |
|------------------|---------------|-----------------------------|----------|----------|-----------------|-----------|

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:52:47 2024 Page 1
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Scale = 1:29.4

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|--------------------------------------|
| Plate Offsets (X,Y)-- [6:Edge,0-3-8] |
|--------------------------------------|

| | | | | | |
|------------------------|----------------------|-------------|-----------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.47 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.37 | Vert(LL) -0.02 8-9 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.44 | Vert(CT) -0.04 8-9 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr NO | Matrix-MS | Horz(CT) 0.01 6 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 171 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |

REACTIONS. (size) 10=0-3-8, 6=0-3-8
 Max Horz 10=97(LC 10)
 Max Uplift 6=127(LC 12)
 Max Grav 10=2634(LC 3), 6=2350(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2873/0, 2-3=-2147/95, 3-4=-2148/94, 4-5=-2694/143, 1-10=-2025/0, 5-6=-1906/104
 BOT CHORD 9-10=-13/399, 8-9=0/2439, 7-8=-73/2284, 6-7=-19/317
 WEBS 3-8=-44/1961, 4-8=615/129, 4-7=-95/560, 2-8=-815/0, 2-9=0/786, 1-9=0/2141, 5-7=-56/2024

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=127.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-2-12 from the left end to 11-2-12 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.



Continued on page 2

LOAD CASE(S) Standard

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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------------|---------------|-----------------------------|----------|-----------------|---|-----------|
| Job 24-3350-A | Truss T01G | Truss Type COMMON GIRDER | Qty 1 | Ply 2 | RVF-LOT #8 ROOF Job Reference (optional) | I66043316 |
|------------------|---------------|-----------------------------|----------|-----------------|---|-----------|

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:52:47 2024 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-474(B) 9=-595(B) 13=-595(B) 14=-474(B) 15=-474(B) 16=-474(B)

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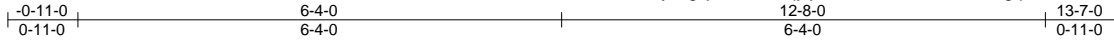
818 Soundside Road
Edenton, NC 27932

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|------------------|----------------|------------------------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss T01GE | Truss Type COMMON SUPPORTED GAB | Qty 1 | Ply 1 | RVF-LOT #8 ROOF | I66043317 |
|------------------|----------------|------------------------------------|----------|----------|-----------------|-----------|

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

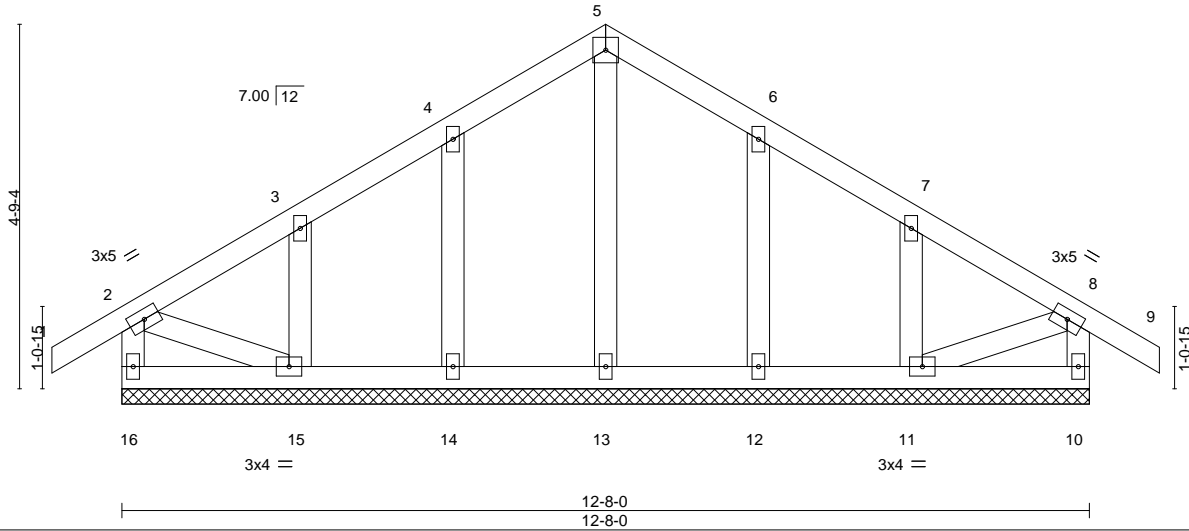
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4x4 =

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|------------------------|----------------------|-------------|--------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.08 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.04 | Vert(LL) -0.00 9 n/r 120 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.04 | Vert(CT) -0.00 9 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 10 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 73 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |
| OTHERS 2x4 SP No.3 | |

REACTIONS. All bearings 12-8-0.
 (lb) - Max Horz 16=112(LC 15)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-4-0, Exterior(2N) 2-4-0 to 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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6, 2024

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|------------------|--------------|----------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss T02 | Truss Type COMMON | Qty 1 | Ply 1 | RVF-LOT #8 ROOF | 166043318 |
|------------------|--------------|----------------------|----------|----------|-----------------|-----------|

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

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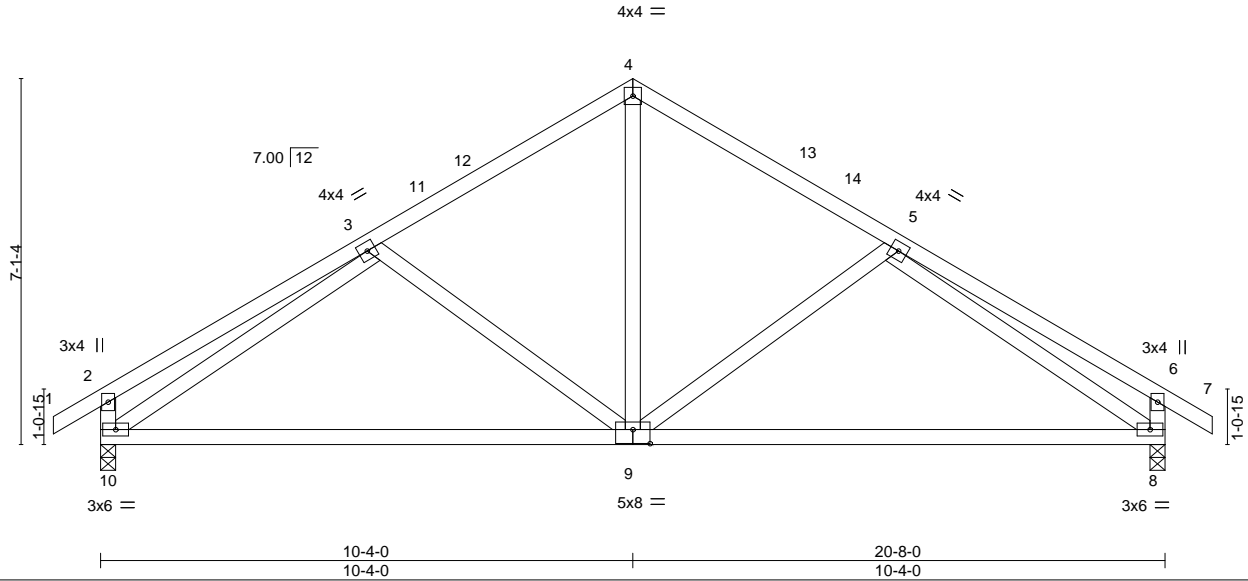


Plate Offsets (X,Y)-- [9:0-4-0,0-3-4]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|-----------|-----------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.54 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.75 | Vert(LL) -0.19 8-9 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.59 | Vert(CT) -0.38 8-9 >649 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-MS | Horz(CT) 0.02 8 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 118 lb | FT = 20% |

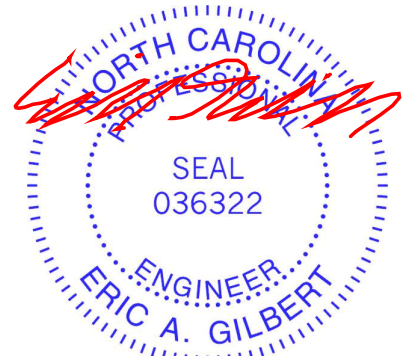
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-8, 8=0-3-8
Max Horz 10=158(LC 15)
Max Uplift 10=-83(LC 16), 8=-83(LC 16)
Max Grav 10=879(LC 2), 8=879(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-321/71, 3-4=-834/124, 4-5=-834/124, 5-6=-321/70, 2-10=-335/98, 6-8=-335/98
BOT CHORD 9-10=-66/813, 8-9=-54/813
WEBS 4-9=-17/515, 3-10=-755/96, 5-8=-755/95

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 2-1-0, Interior(1) 2-1-0 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 21-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6, 2024

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|------------------|---------------|-----------------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss T02G | Truss Type COMMON GIRDER | Qty 1 | Ply 3 | RVF-LOT #8 ROOF | 166043319 |
|------------------|---------------|-----------------------------|----------|----------|-----------------|-----------|

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

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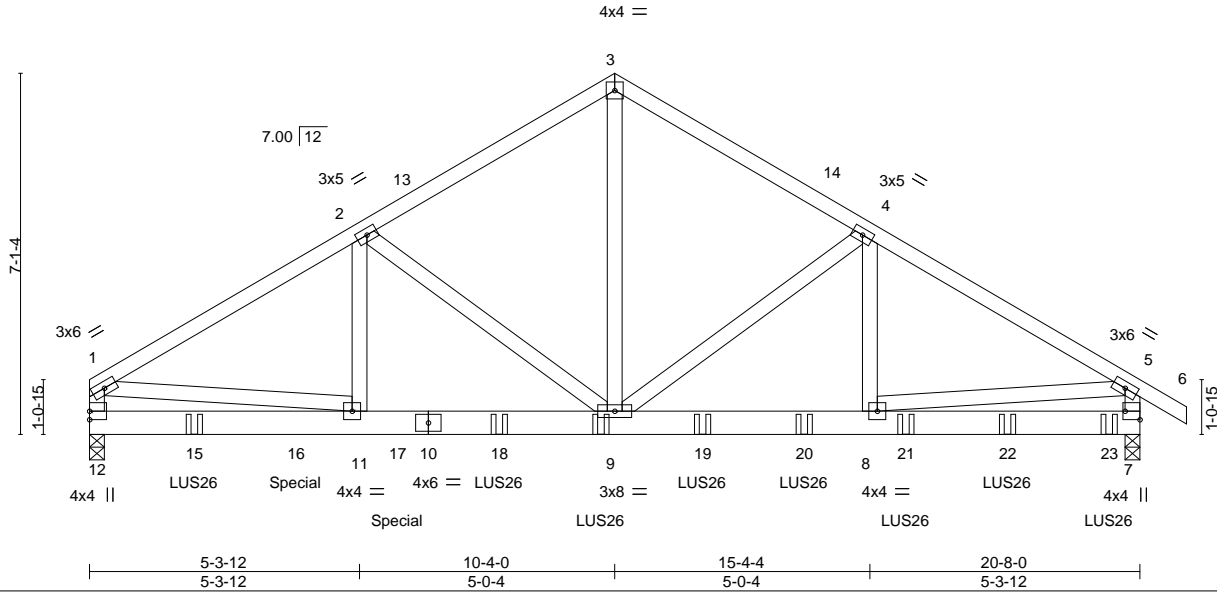


Plate Offsets (X,Y)-- [7:Edge,0-3-8]

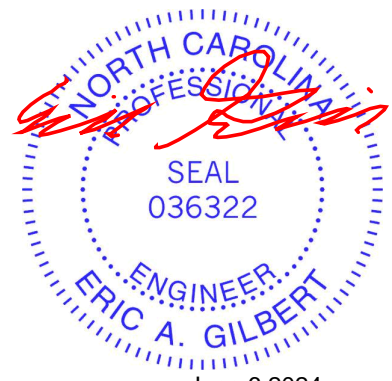
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|-----------|-----------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.59 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.45 | Vert(LL) -0.05 8-9 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.46 | Vert(CT) -0.09 8-9 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr NO | Matrix-MS | Horz(CT) 0.02 7 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 417 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |

REACTIONS. (size) 12=0-3-8, 7=0-3-8
 Max Horz 12=153(LC 10)
 Max Uplift 12=298(LC 12), 7=369(LC 12)
 Max Grav 12=3462(LC 2), 7=3959(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-4626/419, 2-3=-3452/365, 3-4=-3449/365, 4-5=-4667/420, 1-12=-2933/275, 5-7=-3023/309
 BOT CHORD 11-12=-129/741, 9-11=-264/3927, 8-9=-262/3953, 7-8=-63/758
 WEBS 3-9=-278/3125, 4-9=-1328/170, 4-8=-75/1186, 2-9=-1295/173, 2-11=-74/1132, 1-11=-226/3300, 5-8=-201/3230

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=298, 7=369.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 6-0-0 oc max. starting at 20-0-12 to connect truss(es) to back face of bottom chord.



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 818 Soundside Road
 Edenton, NC 27932

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|------------------|---------------|-----------------------------|----------|-----------------|---|-----------|
| Job 24-3350-A | Truss T02G | Truss Type COMMON GIRDER | Qty 1 | Ply 3 | RVF-LOT #8 ROOF Job Reference (optional) | I66043319 |
|------------------|---------------|-----------------------------|----------|-----------------|---|-----------|

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:52:50 2024 Page 2
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NOTES-

- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 581 lb down and 59 lb up at 4-0-12, and 581 lb down and 59 lb up at 6-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-3=-43, 3-5=-43, 5-6=-43, 7-12=-20
 - Concentrated Loads (lb)
 - Vert: 9=-469(B) 15=-474(B) 16=-469(B) 17=-469(B) 18=-469(B) 19=-469(B) 20=-469(B) 21=-469(B) 22=-469(B) 23=-480(B)

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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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------------|----------------|------------------------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss T02GE | Truss Type COMMON SUPPORTED GAB | Qty 1 | Ply 1 | RVF-LOT #8 ROOF | 166043320 |
|------------------|----------------|------------------------------------|----------|----------|-----------------|-----------|

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

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Scale = 1:45.6

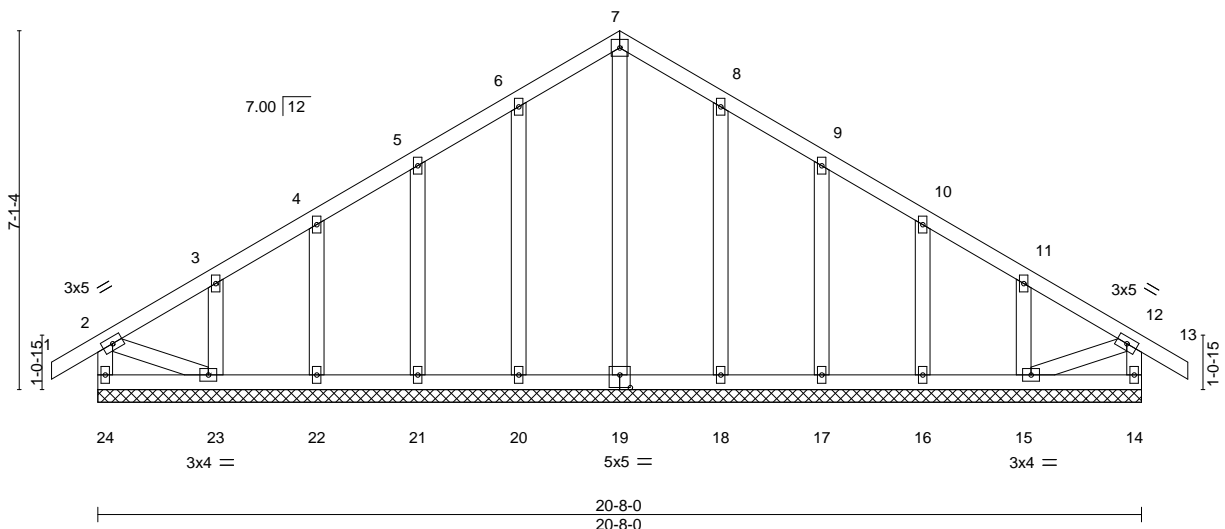


Plate Offsets (X, Y)-- [19:0-2-8,0-3-0]

| | | | | | | | | | | | |
|----------------------|-----------|----------------------|-------|-------------|------|--------------|----------|--------|-----|----------------|-------------|
| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | -0.00 | 13 | n/r | MT20 | 244/190 |
| Snow (Pf/Pg) | 11.6/15.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | -0.00 | 13 | n/r | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.10 | Horz(CT) | 0.00 | 14 | n/a | | |
| BCLL | 0.0 * | Code IRC2018/TPI2014 | | Matrix-S | | | | | | | |
| BCDL | 10.0 | | | | | | | | | Weight: 131 lb | FT = 20% |

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

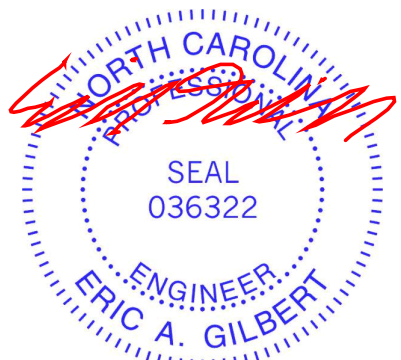
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 23-24,14-15.

REACTIONS. All bearings 20-8-0.
(lb) - Max Horz 24=158(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 24, 20, 21, 22, 23, 18, 17, 16, 15
Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 20, 21, 22, 23, 18, 17, 16, 15

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-4-0, Exterior(2N) 2-4-0 to 10-4-0, Corner(3R) 10-4-0 to 13-4-0, Exterior(2N) 13-4-0 to 21-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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); ls=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 20, 21, 22, 23, 18, 17, 16, 15.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6, 2024

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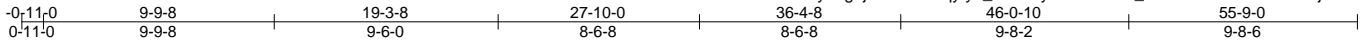
818 Soundside Road
Edenton, NC 27932

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|------------------|--------------|------------------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss T03 | Truss Type PIGGYBACK BASE | Qty 6 | Ply 1 | RVF-LOT #8 ROOF | 166043321 |
|------------------|--------------|------------------------------|----------|----------|-----------------|-----------|

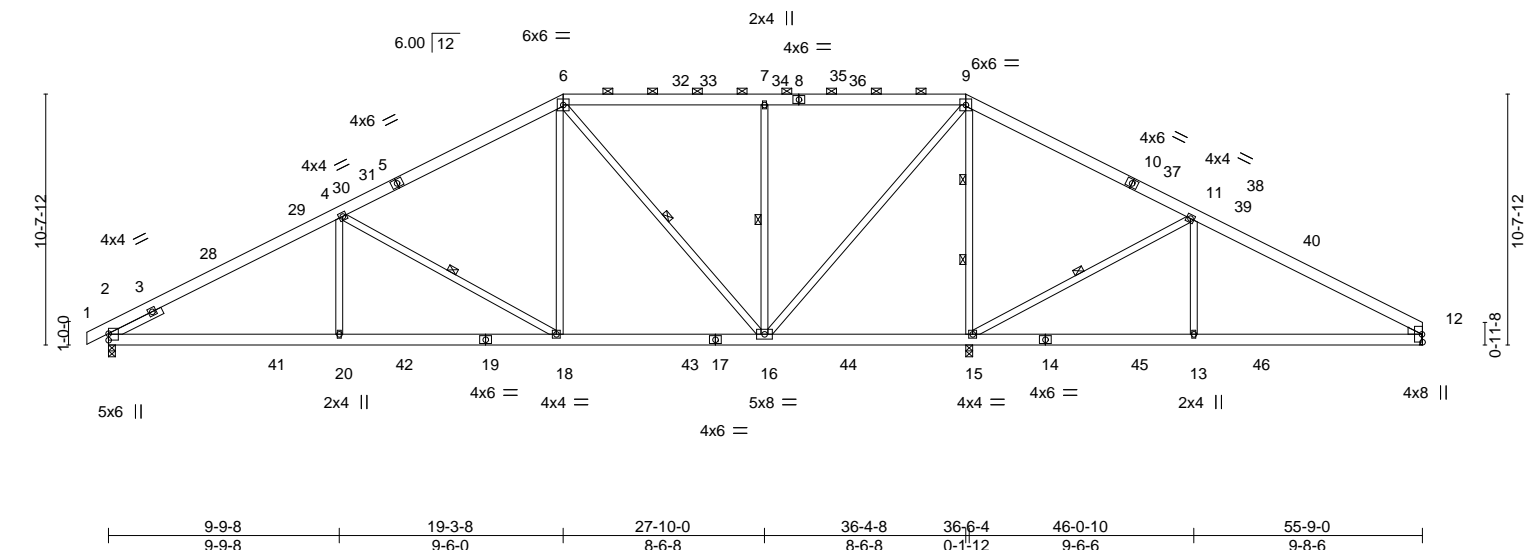
Riverside Roof Truss, LLC, Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:52:51 2024 Page 1

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Scale = 1:97.8



| | | | | | |
|------------------------|----------------------|-------------|-------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.70 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Plate Grip DOL 1.15 | BC 0.69 | Vert(LL) -0.12 18-20 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.85 | Vert(CT) -0.23 18-20 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-MS | Horz(CT) 0.05 15 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 406 lb | FT = 20% |

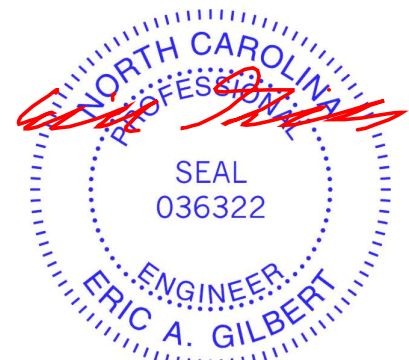
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3
SLIDER Left 2x4 SP No.3 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-13 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 6-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16.
WEBS 1 Row at midpt 4-18, 6-16, 7-16, 11-15
2 Rows at 1/3 pts 9-15

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 12=Mechanical
Max Horz 2=205(LC 15)
Max Uplift 2=-121(LC 16), 15=-124(LC 16), 12=-54(LC 16)
Max Grav 2=1664(LC 28), 15=2954(LC 29), 12=688(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2541/258, 4-6=-1637/263, 6-7=-858/260, 7-9=-858/260, 9-11=0/718, 11-12=-726/143
BOT CHORD 2-20=-144/2330, 18-20=-144/2330, 16-18=0/1436, 15-16=-511/137, 13-15=-25/578, 12-13=-25/578
WEBS 4-20=0/448, 4-18=-1055/175, 6-18=0/920, 6-16=-984/46, 7-16=-741/173, 9-16=-137/1927, 9-15=-2081/217, 11-15=-1209/187, 11-13=0/493

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 4-7-14, Interior(1) 4-7-14 to 19-3-8, Exterior(2R) 19-3-8 to 27-2-2, Interior(1) 27-2-2 to 36-4-8, Exterior(2R) 36-4-8 to 44-3-2, Interior(1) 44-3-2 to 55-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCCL: 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, with BCDL = 10.0psf.
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=121, 15=124.
 - 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and conform to standard ANSI/TPI 1.



June 6, 2024

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TRENCO ENGINEERING BY
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------------|--------------|------------------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss T03 | Truss Type PIGGYBACK BASE | Qty 6 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | I66043321 |
|------------------|--------------|------------------------------|----------|----------|---|-----------|

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:52:51 2024 Page 2
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NOTES-

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

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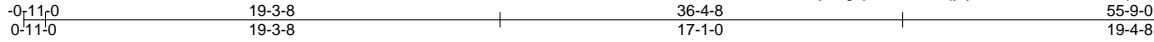
| | | | | | | |
|-----------|-------|----------------------|-----|-----|-----------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | RVF-LOT #8 ROOF | I66043322 |
| 24-3350-A | T03GE | PIGGYBACK BASE SUPPO | 2 | 1 | | |

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:52:53 2024 Page 1

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Job Reference (optional)



Scale = 1:97.8

Plate Offsets (X,Y)-- [9:0-4-0,0-4-8], [23:0-3-0,0-4-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|--------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.07 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Plate Grip DOL 1.15 | BC 0.03 | Vert(LL) -0.00 1 n/r 120 | | |
| BCDL 10.0 | Lumber DOL 1.15 | WB 0.19 | Vert(CT) 0.00 1 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 34 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 542 lb | FT = 20% |

| LUMBER- | BRACING- |
|-------------------------------|--|
| TOP CHORD 2x6 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 13-23. |
| BOT CHORD 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | WEBS 1 Row at midpt 23-45, 22-46, 21-47, 20-48, 18-49, 17-50, 16-52, 15-53, 14-54, 12-55, 11-56, 24-44 |
| WEDGE | |
| Right: 2x4 SP No.3 | |
| SLIDER Left 2x4 SP No.3 1-6-4 | |

REACTIONS. All bearings 55-9-0.
 (lb) - Max Horz 2=208(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 46, 47, 48, 49, 50, 52, 53, 56, 58, 59, 60, 61, 62, 63, 64, 44, 42, 41, 40, 39, 38, 37, 36, 35, 34
 Max Grav All reactions 250 lb or less at joint(s) 2, 45, 46, 47, 48, 49, 50, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63, 64, 44, 42, 41, 40, 39, 38, 37, 36, 35, 34

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 11-12=113/285, 12-13=115/286, 13-14=111/287, 14-15=111/287, 15-16=111/287, 16-17=111/287, 17-18=111/287, 18-20=111/287, 20-21=111/287, 21-22=111/287, 22-23=111/287, 23-24=118/299, 24-25=102/259

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=56ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 4-4-8, Exterior(2N) 4-4-8 to 19-3-8, Corner(3R) 19-3-8 to 24-10-6, Exterior(2N) 24-10-6 to 36-4-8, Corner(3R) 36-4-8 to 41-11-6, Exterior(2N) 41-11-6 to 55-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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=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.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



June 6, 2024

Continued on page 2

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|--|---|
| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>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/TP1 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)</p> | <p>818 Soundside Road Edenton, NC 27932</p> |
|--|---|

| | | | | | | |
|------------------|----------------|------------------------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss T03GE | Truss Type PIGGYBACK BASE SUPPO | Qty 2 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | I66043322 |
|------------------|----------------|------------------------------------|----------|----------|---|-----------|

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:52:54 2024 Page 2
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NOTES-

- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 46, 47, 48, 49, 50, 52, 53, 56, 58, 59, 60, 61, 62, 63, 64, 44, 42, 41, 40, 39, 38, 37, 36, 35, 34.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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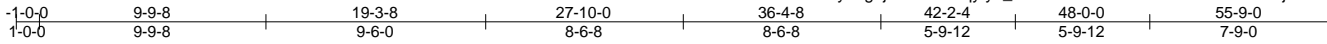
| | | | | | | |
|------------------|---------------|------------------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss T03S | Truss Type Piggyback Base | Qty 3 | Ply 1 | RVF-LOT #8 ROOF | 166043323 |
|------------------|---------------|------------------------------|----------|----------|-----------------|-----------|

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:52:55 2024 Page 1

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Job Reference (optional)



Scale = 1:99.6

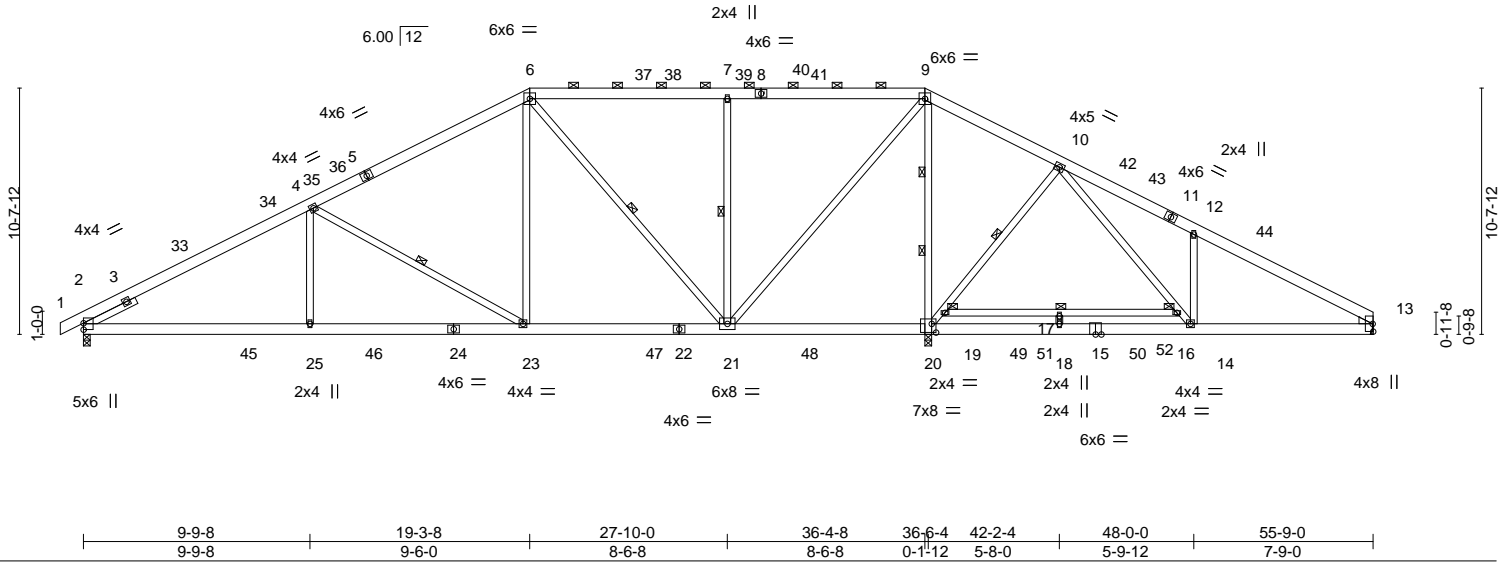


Plate Offsets (X,Y)-- [20:0-2-4,0-4-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|-----------|-------------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.69 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Plate Grip DOL 1.15 | BC 0.97 | Vert(LL) -0.33 17 >694 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.93 | Vert(CT) -0.54 16-17 >425 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-MS | Horz(CT) 0.04 13 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 431 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2 *Except*
 16-19: 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Right: 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 2-6-0

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-7-3 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-9.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 6-0-0 oc bracing: 16-19
 WEBS 1 Row at midpt 4-23, 6-21, 7-21, 10-19
 2 Rows at 1/3 pts 9-20

REACTIONS. (size) 2=0-3-8, 13=Mechanical, 20=0-3-8
 Max Horz 2=206(LC 15)
 Max Uplift 2=-136(LC 16), 13=-39(LC 16), 20=-2(LC 16)
 Max Grav 2=1591(LC 28), 13=637(LC 29), 20=3493(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2386/277, 4-6=-1473/284, 6-7=-670/287, 7-9=-670/287, 9-10=0/945,
 10-12=-852/187, 12-13=-848/68
 BOT CHORD 2-25=-161/2193, 23-25=-161/2193, 21-23=-11/1289, 20-21=-770/95, 13-14=0/665
 WEBS 4-25=0/453, 4-23=-1066/174, 6-23=0/928, 6-21=-1070/31, 7-21=-744/181,
 9-21=-134/2019, 9-20=-2224/162, 19-20=-1117/104, 10-19=-975/148, 10-16=-6/1357,
 14-16=-50/1213, 12-14=-390/195

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 4-6-14, Interior(1) 4-6-14 to 19-3-8, Exterior(2R) 19-3-8 to 27-2-2, Interior(1) 27-2-2 to 36-4-8, Exterior(2R) 36-4-8 to 44-3-2, Interior(1) 44-3-2 to 55-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify compatibility of bearing surface.



June 6, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



| | | | | | | |
|------------------|---------------|------------------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss T03S | Truss Type Piggyback Base | Qty 3 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | I66043323 |
|------------------|---------------|------------------------------|----------|----------|---|-----------|

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:52:55 2024 Page 2
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NOTES-

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 20 except (jt=lb) 2=136.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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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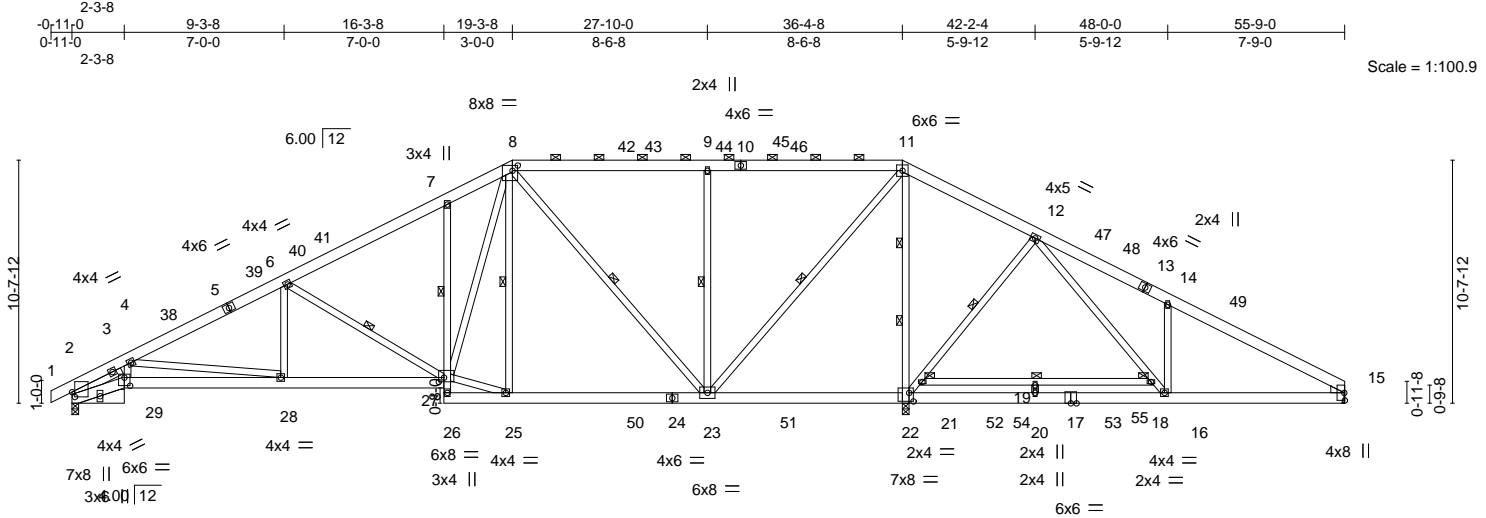
818 Soundside Road
Edenton, NC 27932

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|------------------|--------------|------------------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss T04 | Truss Type Piggyback Base | Qty 5 | Ply 1 | RVF-LOT #8 ROOF | I66043324 |
|------------------|--------------|------------------------------|----------|----------|-----------------|-----------|

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

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VERTICAL SUPPORT OF FREE END OF CHORD IS REQUIRED.

| | | | | | | | | | |
|-------|-------|--------|--------|---------|--------|--------|--------|--------|--------|
| 2-3-8 | 9-3-8 | 16-3-8 | 19-3-8 | 27-10-0 | 36-4-8 | 36-6-4 | 42-2-4 | 48-0-0 | 55-9-0 |
| 2-3-8 | 7-0-0 | 7-0-0 | 3-0-0 | 8-6-8 | 8-6-8 | 0-1-12 | 5-8-0 | 5-9-12 | 7-9-0 |

| | | | | | | | | | | | | |
|--|-----------|----------------------|-------|-------------|------|--------------|----------|--------|------|---------------|----------------|----------|
| Plate Offsets (X, Y)-- [2:0-2-8,0-1-7], [8:0-2-12,0-2-12], [22:0-2-4,0-4-8], [27:0-2-12,0-2-4], [29:0-3-0,0-4-4] | | | | | | | | | | | | |
| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.57 | Vert(LL) | -0.33 | 19 | >696 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 16.5/15.0 | Lumber DOL | 1.15 | BC | 0.96 | Vert(CT) | -0.54 | 18-19 | >429 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.93 | Horz(CT) | 0.09 | 22 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2018/TPI2014 | | Matrix-MS | | | | | | | Weight: 473 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

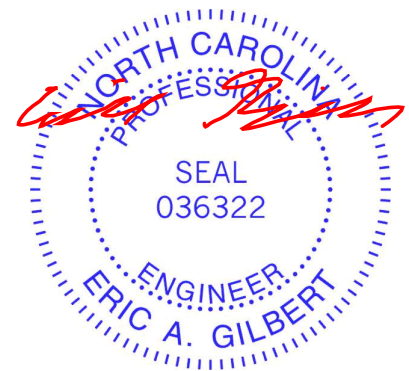
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
7-26: 2x4 SP No.3, 18-21: 2x4 SP No.2, 2-30: 2x8 SP DSS
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3
SLIDER Left 2x4 SP No.3 2-5-1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-5 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 8-11.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
1 Row at midpt 7-27
6-0-0 oc bracing: 18-21
WEBS 1 Row at midpt 6-27, 8-25, 8-23, 9-23, 11-23, 12-21
2 Rows at 1/3 pts 11-22

REACTIONS. (size) 2=0-3-8, 15=Mechanical, 22=0-3-8
Max Horz 2=205(LC 15)
Max Uplift 2=-124(LC 16), 15=-23(LC 16), 22=-27(LC 16)
Max Grav 2=1461(LC 28), 15=554(LC 29), 22=3626(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-3439/309, 4-6=-2457/276, 6-7=-1617/282, 7-8=-1567/368, 8-9=-575/265,
9-11=-575/265, 11-12=0/1158, 12-14=-694/157, 14-15=-700/58
BOT CHORD 2-29=-248/3108, 28-29=-259/2974, 27-28=-157/2293, 7-27=-395/161, 23-25=0/1118,
22-23=-884/135, 20-22=-401/80, 16-20=-401/80, 15-16=-21/549
WEBS 4-29=0/693, 4-28=-689/136, 6-28=0/428, 6-27=-984/127, 25-27=0/1080, 8-27=-189/1219,
8-23=-1076/37, 9-23=-744/188, 11-23=-146/2081, 11-22=-2387/184, 21-22=-1123/105,
12-21=-980/149, 12-18=-9/1377, 16-18=-53/1232, 14-16=-400/197

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 4-7-14, Interior(1) 4-7-14 to 19-3-8, Exterior(2R) 19-3-8 to 27-2-2, Interior(1) 27-2-2 to 36-4-8, Exterior(2R) 36-4-8 to 44-3-2, Interior(1) 44-3-2 to 55-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.



June 6, 2024

Continued on page 2

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|--|---|
| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>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/TPH 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)</p> | <p>818 Soundside Road Edenton, NC 27932</p> |
|--|---|

| | | | | | | |
|------------------|--------------|------------------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss T04 | Truss Type Piggyback Base | Qty 5 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | I66043324 |
|------------------|--------------|------------------------------|----------|----------|---|-----------|

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:52:56 2024 Page 2
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NOTES-

- 10) Bearing at joint(s) 2, 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 22 except (jt=lb) 2=124.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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| | | | | | | |
|------------------|--------------|------------------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss T05 | Truss Type PIGGYBACK BASE | Qty 4 | Ply 1 | RVF-LOT #8 ROOF | 166043325 |
|------------------|--------------|------------------------------|----------|----------|-----------------|-----------|

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

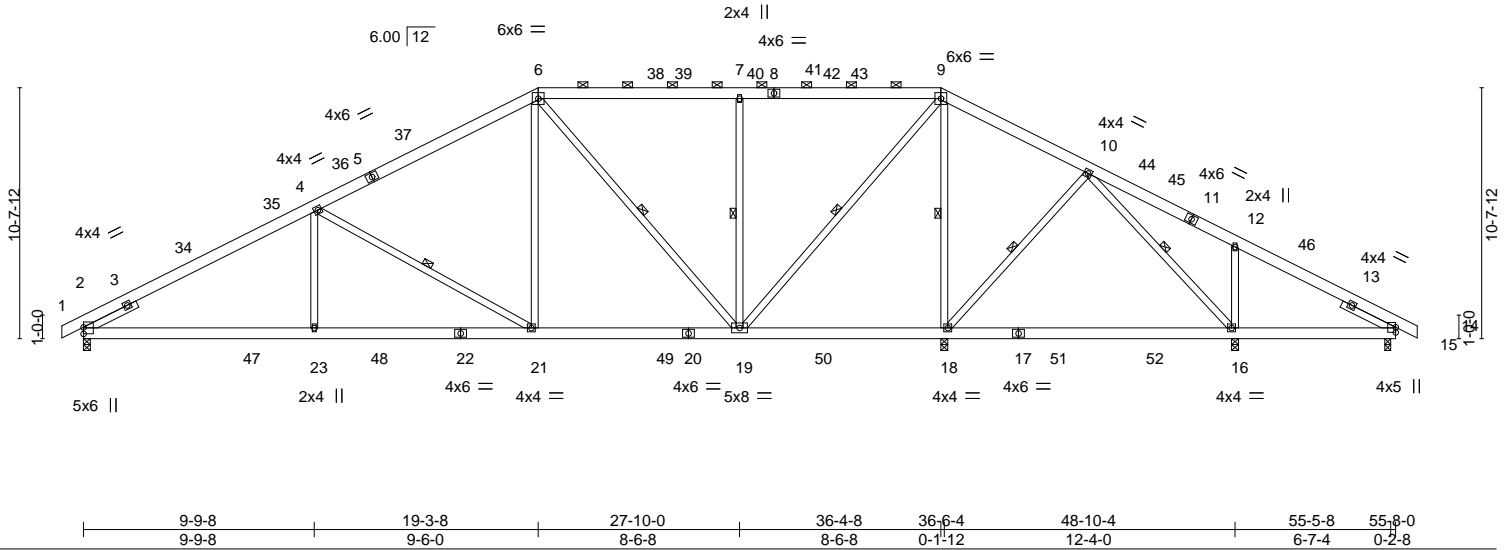
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Job Reference (optional)

| | | | | | | | | |
|---------|-------|--------|---------|--------|--------|---------|--------|--------|
| -0-11-0 | 9-9-8 | 19-3-8 | 27-10-0 | 36-4-8 | 42-7-6 | 48-10-4 | 55-8-0 | 56-7-0 |
| 0-11-0 | 9-9-8 | 9-6-0 | 8-6-8 | 8-6-8 | 6-2-14 | 6-2-14 | 6-9-12 | 0-11-0 |

Scale = 1:97.7



| | | | | | |
|------------------------|----------------------|-------------|-------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.71 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Plate Grip DOL 1.15 | BC 0.70 | Vert(LL) -0.19 16-18 >784 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 1.00 | Vert(CT) -0.29 16-18 >505 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-MS | Horz(CT) 0.05 18 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 420 lb | FT = 20% |

| | |
|--|--|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 4-5-1 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-9. |
| BOT CHORD 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | WEBS 1 Row at midpt 4-21, 6-19, 7-19, 9-19, 9-18, 10-18, 10-16 |
| SLIDER Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0 | |

REACTIONS. All bearings 0-3-8 except (jt=length) 14=0-3-0.
 (lb) - Max Horz 2=207(LC 15)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 14 except 2=-126(LC 16), 18=-105(LC 16)
 Max Grav All reactions 250 lb or less at joint(s) except 2=1664(LC 28), 18=2747(LC 28), 16=684(LC 29), 14=341(LC 55)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2542/261, 4-6=-1639/269, 6-7=-842/268, 7-9=-842/268, 9-10=0/623
 BOT CHORD 2-23=-124/2336, 21-23=-124/2336, 19-21=0/1443, 18-19=-435/149, 16-18=-254/73
 WEBS 4-23=0/445, 4-21=-1052/175, 6-21=0/928, 6-19=-975/41, 7-19=-743/180, 9-19=-148/1895, 9-18=-1992/191, 10-18=-506/187, 10-16=-53/263, 12-16=-385/167

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-11-0 to 4-7-13, Interior(1) 4-7-13 to 19-3-8, Exterior(2R) 19-3-8 to 27-2-0, Interior(1) 27-2-0 to 36-4-8, Exterior(2R) 36-4-8 to 44-3-0, Interior(1) 44-3-0 to 56-7-0 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=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, with BCDL = 10.0psf.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 14 except (jt=lb) 2=-126, 18=105.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 6, 2024

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-----------|-------|----------------|-----|-----|-----------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | RVF-LOT #8 ROOF | 166043326 |
| 24-3350-A | T05A | PIGGYBACK BASE | 1 | 1 | | |

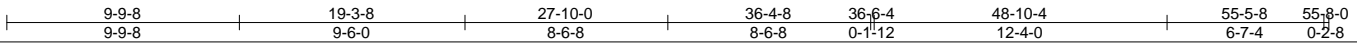
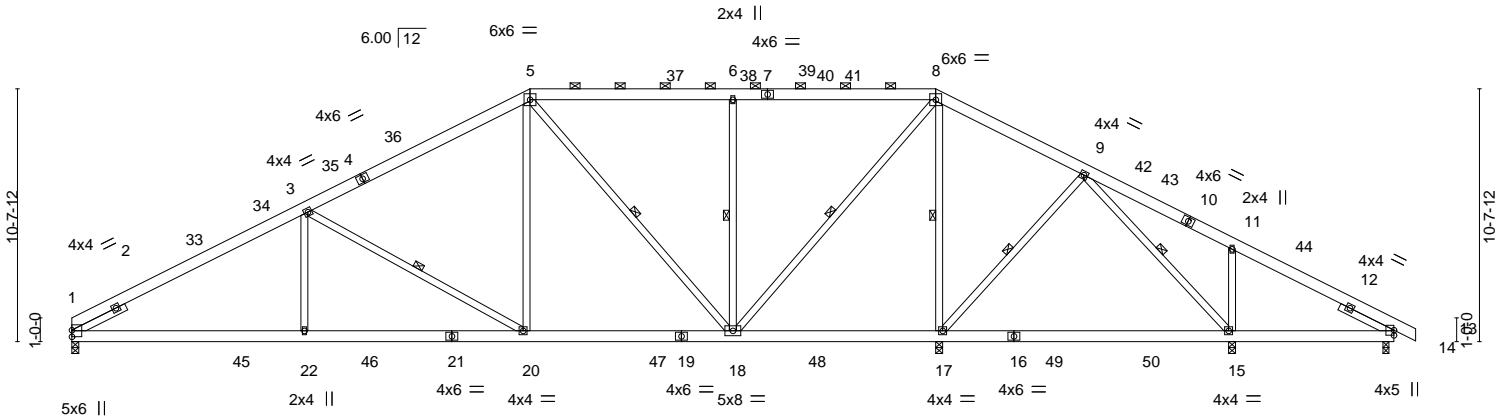
Riverside Roof Truss, LLC, Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:52:58 2024 Page 1

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Scale = 1:97.0



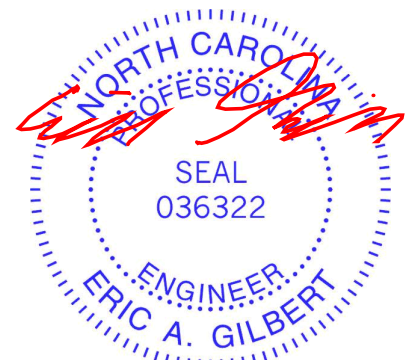
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|------------------------|----------------------|-------------|-------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.71 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Plate Grip DOL 1.15 | BC 0.69 | Vert(LL) -0.19 15-17 >784 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 1.00 | Vert(CT) -0.29 15-17 >505 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-MS | Horz(CT) 0.05 17 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 418 lb | FT = 20% |

| | |
|--|--|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 4-5-2 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-8. |
| BOT CHORD 2x6 SP No.2 | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | WEBS 1 Row at midpt 3-20, 5-18, 6-18, 8-18, 8-17, 9-17, 9-15 |
| SLIDER Left 2x4 SP No.3 2-6-0, Right 2x4 SP No.3 2-6-0 | |

REACTIONS. All bearings 0-3-8 except (jt=length) 13=0-3-0.
 (lb) - Max Horz 1=205(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 15, 13 except 17=104(LC 16)
 Max Grav All reactions 250 lb or less at joint(s) except 1=1615(LC 28), 17=2744(LC 28), 15=686(LC 29), 13=341(LC 55)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-2547/266, 3-5=-1643/273, 5-6=-843/271, 6-8=-843/271, 8-9=0/620
 BOT CHORD 1-22=-124/2341, 20-22=-124/2341, 18-20=0/1445, 17-18=-433/149, 15-17=-251/73
 WEBS 3-22=0/446, 3-20=-1054/176, 5-20=0/929, 5-18=-975/41, 6-18=-744/181, 8-18=-148/1895, 8-17=-1990/191, 9-17=-505/186, 9-15=-53/261, 11-15=-385/167

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 5-6-13, Interior(1) 5-6-13 to 19-3-8, Exterior(2R) 19-3-8 to 27-2-0, Interior(1) 27-2-0 to 36-4-8, Exterior(2R) 36-4-8 to 44-3-0, Interior(1) 44-3-0 to 56-7-0 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=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, with BCDL = 10.0psf.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 13 except (jt=lb) 17=104.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 6, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 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.sbccomponents.com)

ENGINEERING BY TRENCO
A MiTek Affiliate

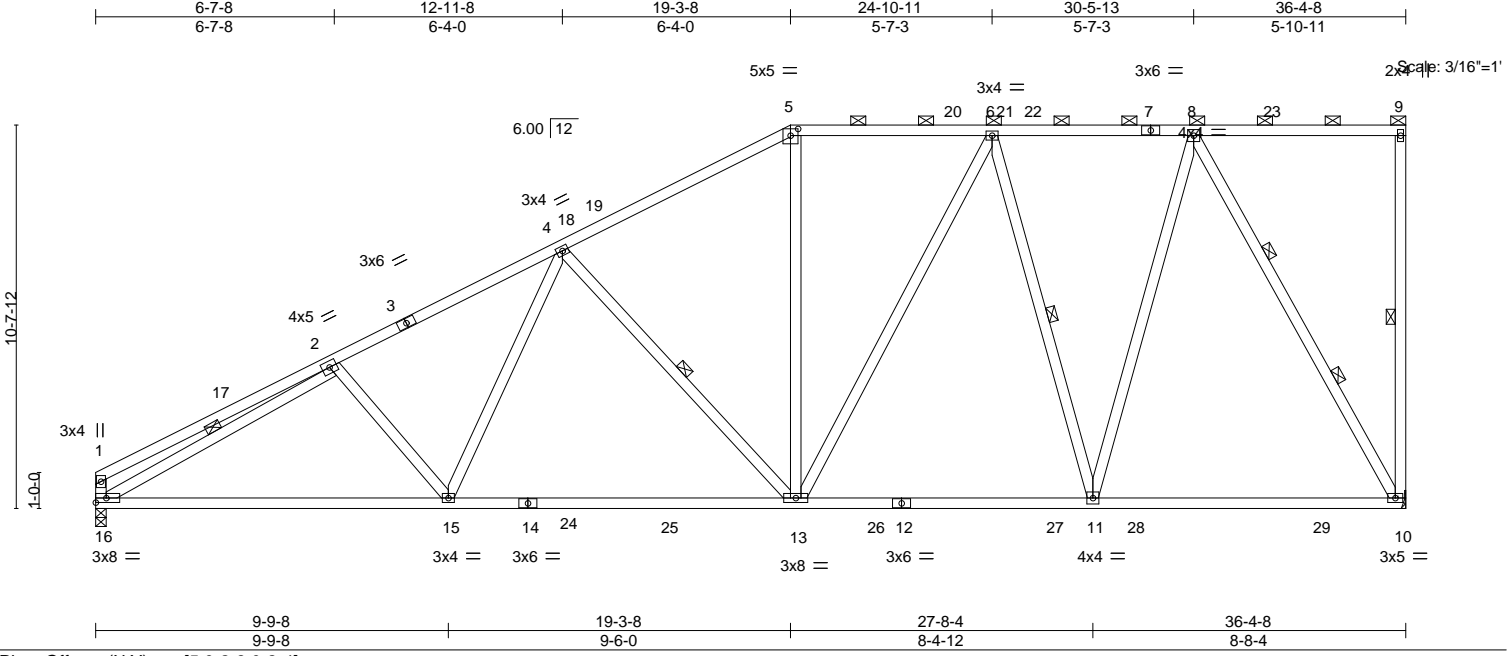
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------------|--------------|------------------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss T06 | Truss Type Piggyback Base | Qty 5 | Ply 1 | RVF-LOT #8 ROOF | I66043327 |
|------------------|--------------|------------------------------|----------|----------|-----------------|-----------|

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

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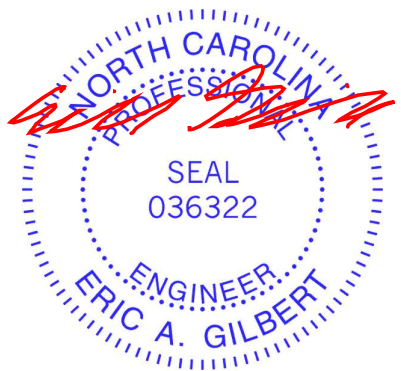
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|-----------|-------------------------------|----------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.65 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 16.5/15.0 | Plate Grip DOL 1.15 | BC 0.98 | Vert(LL) -0.28 13-15 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.87 | Vert(CT) -0.47 13-15 >920 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-MS | Horz(CT) 0.08 10 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 251 lb | FT = 20% |

| LUMBER- | BRACING- |
|--|--|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 3-5-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-5 max.): 5-9. |
| BOT CHORD 2x4 SP No.1 *Except* 10-12: 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. |
| WEBS 2x4 SP No.3 | WEBS 1 Row at midpt 9-10, 4-13, 6-11, 2-16 2 Rows at 1/3 pts 8-10 |

REACTIONS. (size) 10=Mechanical, 16=0-3-8
 Max Horz 16=294(LC 16)
 Max Uplift 10=130(LC 16), 16=45(LC 16)
 Max Grav 10=1753(LC 38), 16=1696(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-521/76, 2-4=-2559/146, 4-5=-1791/153, 5-6=-1546/171, 6-8=-1120/97,
 1-16=-376/88
 BOT CHORD 15-16=-355/2346, 13-15=-275/2035, 11-13=-139/1315, 10-11=-86/814
 WEBS 4-15=0/553, 4-13=-798/154, 5-13=0/473, 6-13=-71/582, 6-11=-747/164, 8-11=-50/1174,
 8-10=-1655/179, 2-16=-2220/73

- 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=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-9-6, Interior(1) 3-9-6 to 19-3-8, Exterior(2R) 19-3-8 to 24-5-4, Interior(1) 24-5-4 to 36-2-12 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 10=130.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 6, 2024

| | | | | | | |
|------------------|--------------|----------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss T07 | Truss Type COMMON | Qty 3 | Ply 1 | RVF-LOT #8 ROOF | 166043328 |
|------------------|--------------|----------------------|----------|----------|-----------------|-----------|

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

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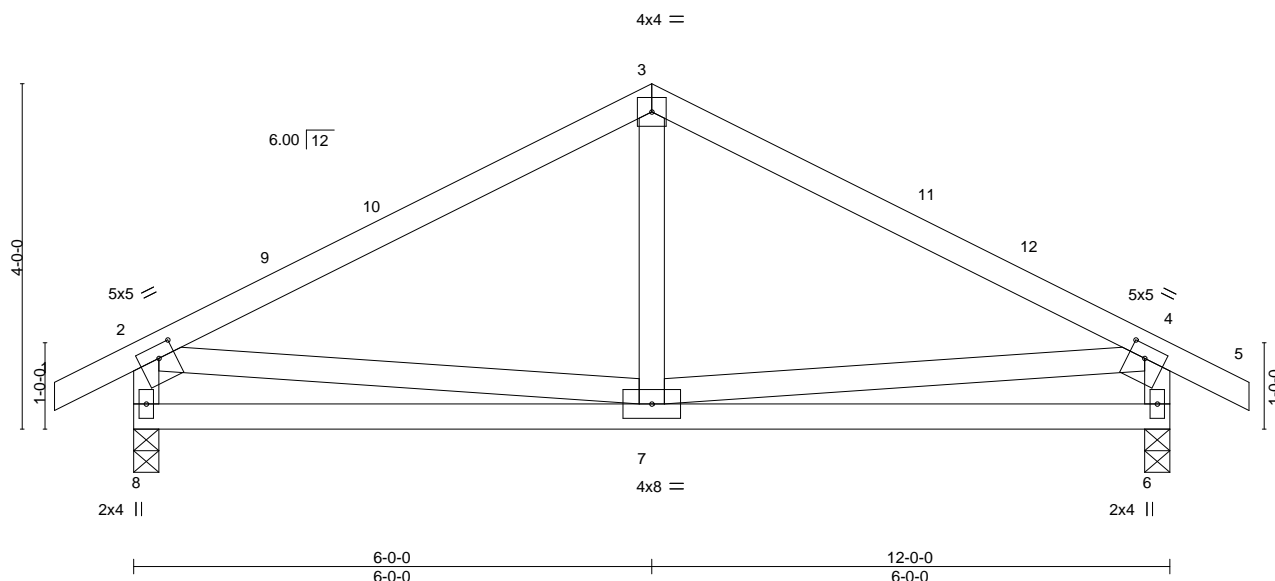


Plate Offsets (X, Y)-- [2:0-2-4,0-1-12], [4:0-2-4,0-1-12]

| | | | | | | | | | | | |
|----------------------|-----------|----------------------|-------|-------------|--------------|----------|--------|------|---------------|---------------|----------|
| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | Vert(LL) | -0.02 | 7-8 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 11.6/15.0 | Lumber DOL | 1.15 | BC | Vert(CT) | -0.05 | 7-8 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2018/TPI2014 | | Matrix-MS | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | |
| | | | | | | | | | | Weight: 64 lb | FT = 20% |

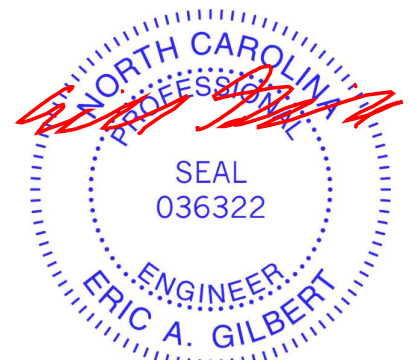
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 6=0-3-8
Max Horz 8=-82(LC 14)
Max Uplift 8=-62(LC 16), 6=-62(LC 16)
Max Grav 8=532(LC 2), 6=532(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-538/176, 3-4=-538/176, 2-8=-479/228, 4-6=-479/228
BOT CHORD 7-8=-170/276, 6-7=-124/257

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH 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)

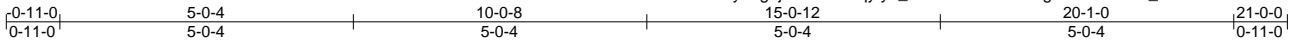
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------------|--------------|----------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss T08 | Truss Type Common | Qty 5 | Ply 1 | RVF-LOT #8 ROOF | 166043329 |
|------------------|--------------|----------------------|----------|----------|-----------------|-----------|

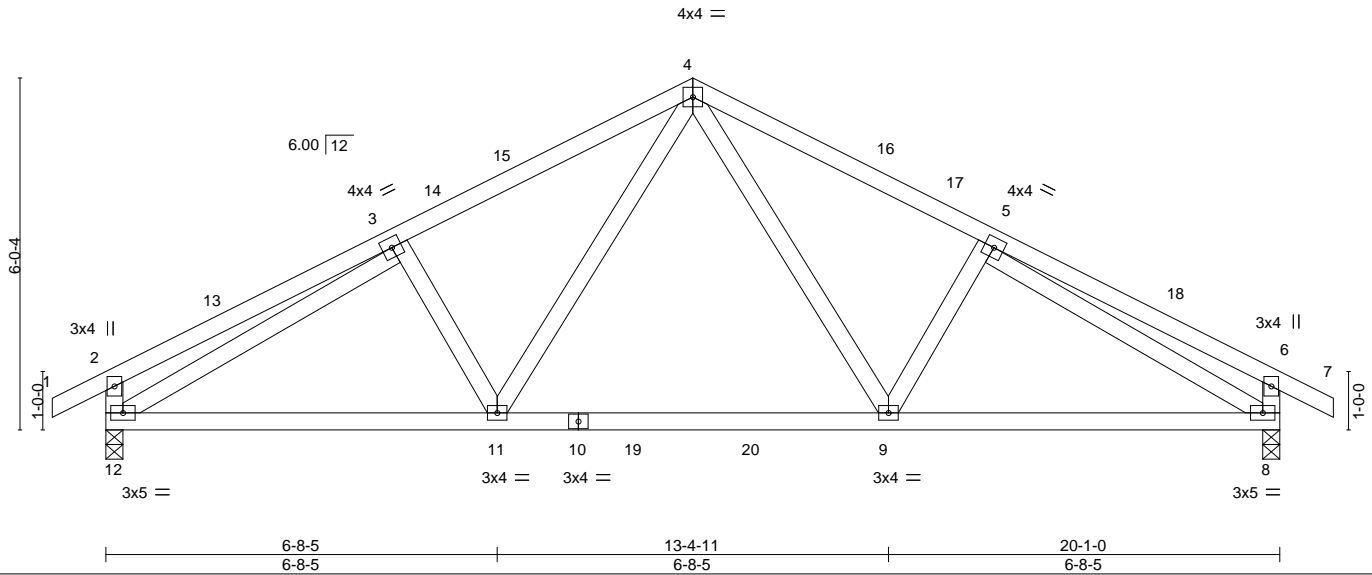
Riverside Roof Truss, LLC, Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:53:00 2024 Page 1

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Scale = 1:39.4



| | | | | | |
|------------------------|----------------------|-------------|------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.38 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.54 | Vert(LL) -0.07 9-11 >999 240 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.62 | Vert(CT) -0.12 9-11 >999 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-MS | Horz(CT) 0.03 8 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 113 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 5-4-6 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |

REACTIONS. (size) 12=0-3-8, 8=0-3-8
 Max Horz 12=115(LC 15)
 Max Uplift 12=81(LC 16), 8=81(LC 16)
 Max Grav 12=921(LC 28), 8=921(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-294/100, 3-4=-1131/236, 4-5=-1131/236, 5-6=-294/100, 2-12=-293/141, 6-8=-292/141
 BOT CHORD 11-12=-131/1075, 9-11=-32/778, 8-9=-118/1020
 WEBS 4-9=-51/446, 4-11=-51/446, 3-12=-979/131, 5-8=-979/131

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

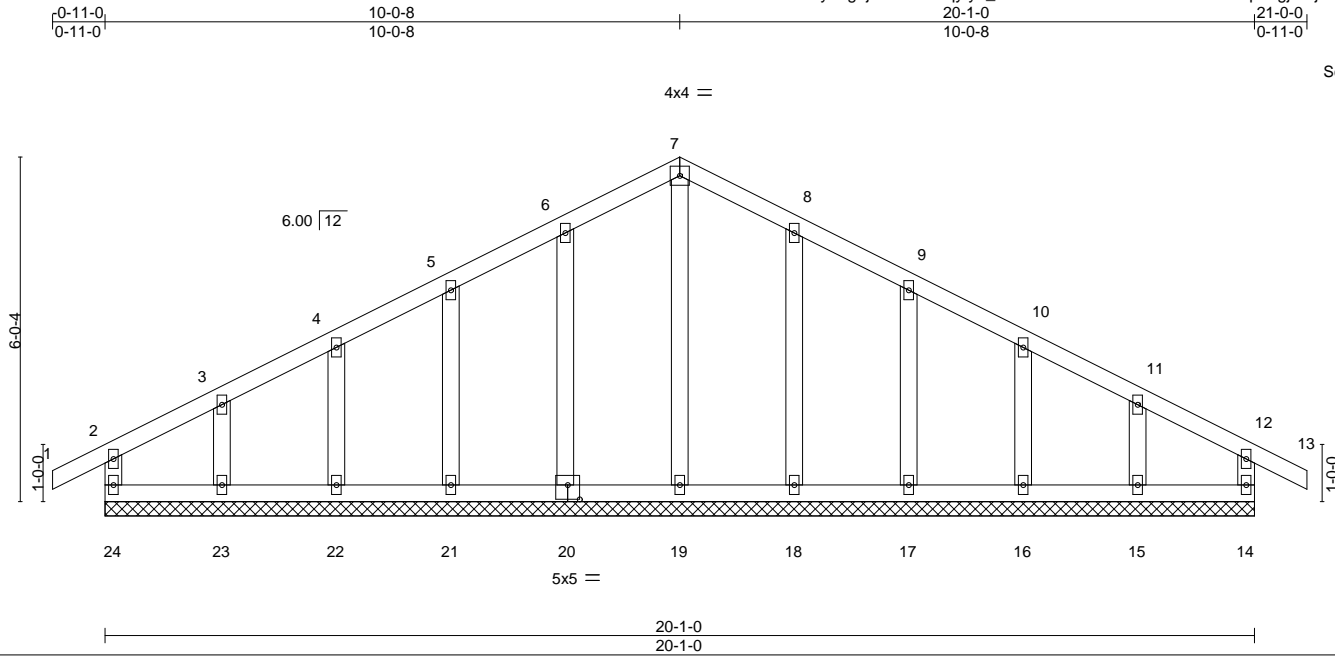


June 6, 2024

| | | | | | | |
|------------------|----------------|--------------------------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss T08GE | Truss Type Common Supported Gable | Qty 1 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | 166043330 |
|------------------|----------------|--------------------------------------|----------|----------|---|-----------|

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:53:01 2024 Page 1
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Scale = 1:40.3

| | | | | | |
|---|-----------------------|-------------|---------------------------|----------------|-------------|
| Plate Offsets (X, Y)-- [20:0-2-8,0-3-0] | | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | Plate Grip DOL 1.15 | TC 0.09 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Lumber DOL 1.15 | BC 0.04 | Vert(LL) -0.00 13 n/r 120 | | |
| TCDL 10.0 | Rep Stress Incr YES | WB 0.08 | Vert(CT) -0.00 13 n/r 120 | | |
| BCLL 0.0 * | Code IRC2018/TPI2014 | Matrix-R | Horz(CT) 0.00 14 n/a n/a | | |
| BCDL 10.0 | | | | Weight: 112 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |
| OTHERS 2x4 SP No.3 | |

REACTIONS. All bearings 20-1-0.
(lb) - Max Horz 24=115(LC 15)
Max Uplift All uplift 100 lb or less at joint(s) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15
Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 20, 21, 22, 23, 18, 17, 16, 15

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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); ls=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 14, 20, 21, 22, 23, 18, 17, 16, 15.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

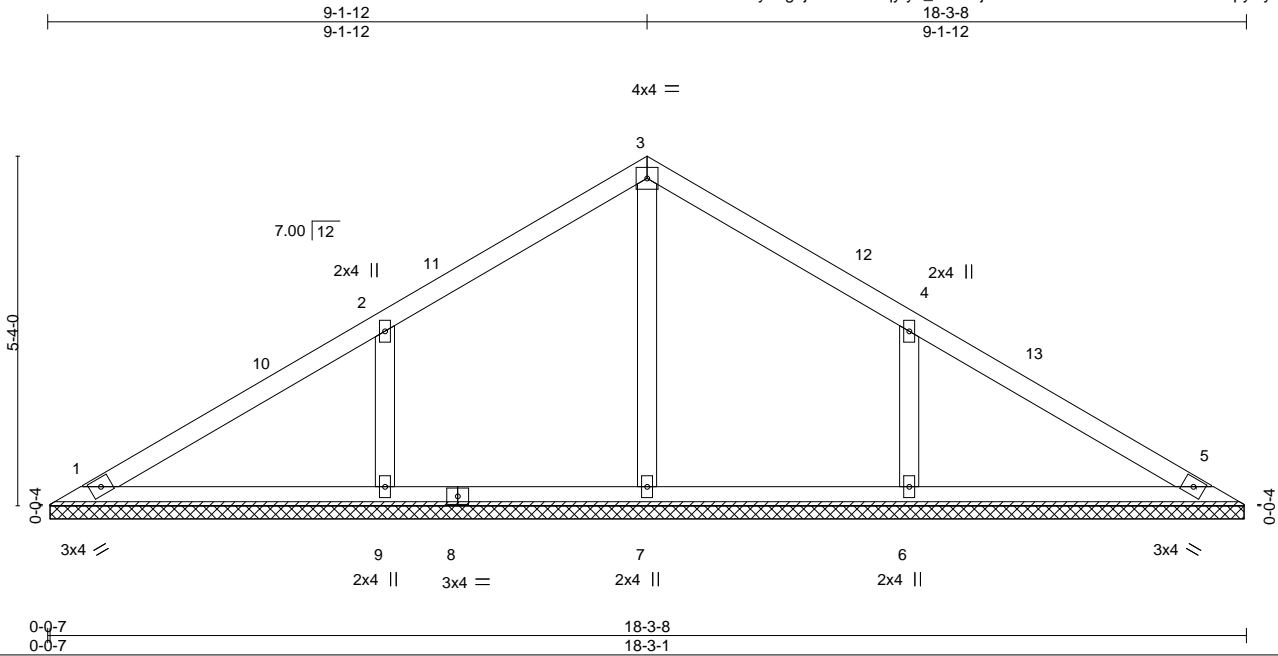


June 6, 2024

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|------------------|--------------|----------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss V01 | Truss Type Valley | Qty 1 | Ply 1 | RVF-LOT #8 ROOF | 166043331 |
|------------------|--------------|----------------------|----------|----------|-----------------|-----------|

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:53:02 2024 Page 1
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Scale = 1:35.2

| | | | | | |
|------------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.28 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.17 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.08 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 5 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 71 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |

REACTIONS. All bearings 18-2-10.
 (lb) - Max Horz 1=100(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=418(LC 27), 6=418(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-309/142, 4-6=-309/142

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 9-1-12, Exterior(2R) 9-1-12 to 12-1-12, Interior(1) 12-1-12 to 17-9-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6, 2024

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|------------------|--------------|----------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss V02 | Truss Type Valley | Qty 1 | Ply 1 | RVF-LOT #8 ROOF | 166043332 |
|------------------|--------------|----------------------|----------|----------|-----------------|-----------|

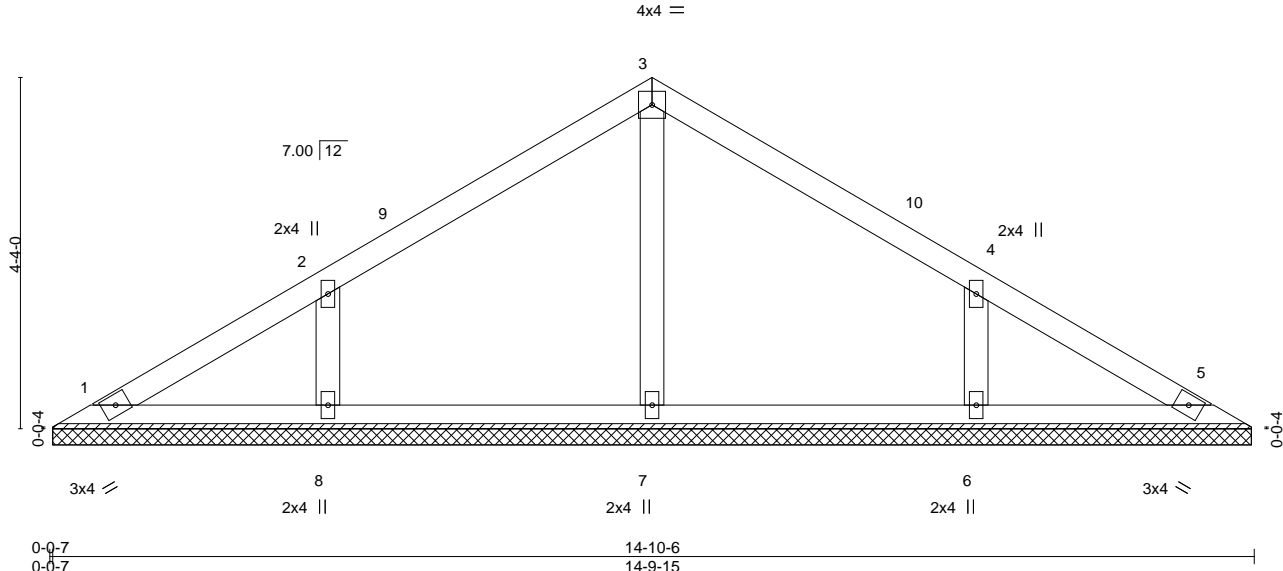
Riverside Roof Truss, LLC, Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:53:02 2024 Page 1

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Scale = 1:28.4



| | | | | | |
|------------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.20 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.11 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.07 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 5 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 56 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |

REACTIONS. All bearings 14-9-8.
 (lb) - Max Horz 1=80(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=270(LC 2), 8=327(LC 33), 6=327(LC 34)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-5-3, Interior(1) 3-5-3 to 7-5-3, Exterior(2R) 7-5-3 to 10-5-3, Interior(1) 10-5-3 to 14-3-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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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/TPH 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)

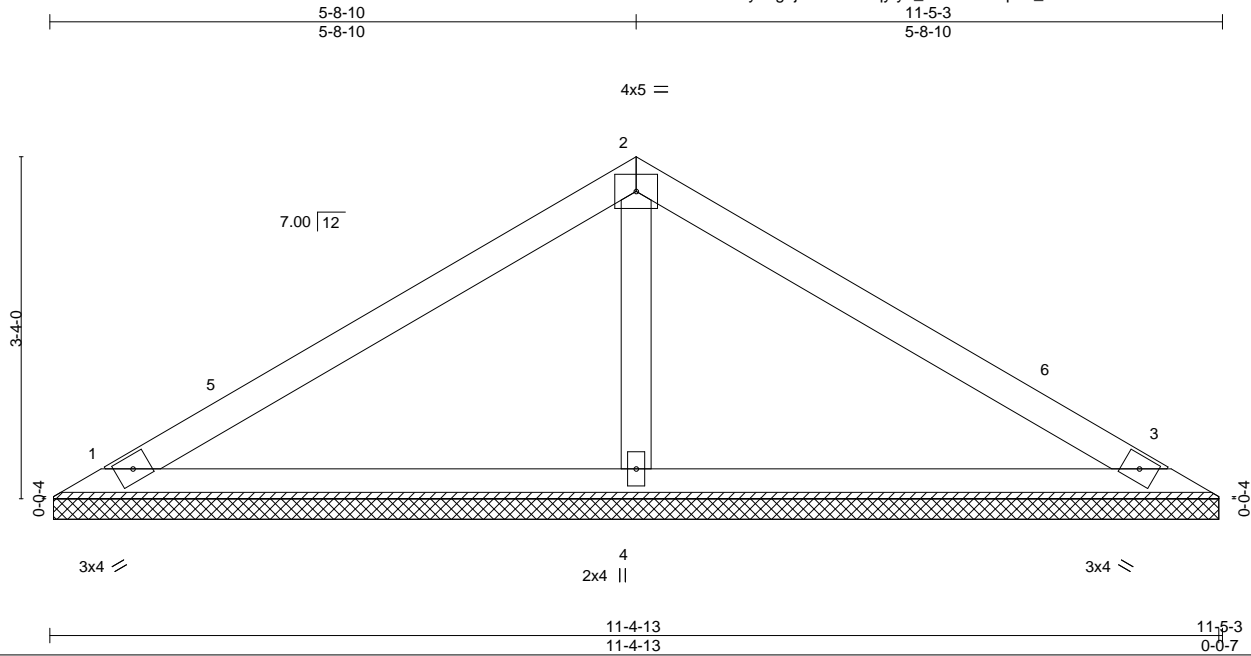
ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

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|------------------|--------------|----------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss V03 | Truss Type Valley | Qty 1 | Ply 1 | RVF-LOT #8 ROOF | 166043333 |
|------------------|--------------|----------------------|----------|----------|-----------------|-----------|

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:53:03 2024 Page 1
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| | | | | | |
|------------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.42 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.27 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.07 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 39 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |

REACTIONS. (size) 1=11-4-6, 3=11-4-6, 4=11-4-6
 Max Horz 1=60(LC 15)
 Max Uplift 1=-25(LC 16), 3=-25(LC 16)
 Max Grav 1=196(LC 2), 3=196(LC 2), 4=436(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-284/106

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 5-8-10, Exterior(2R) 5-8-10 to 8-8-10, Interior(1) 8-8-10 to 10-10-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=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.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6, 2024

| | | | | | | |
|------------------|--------------|----------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss V04 | Truss Type Valley | Qty 1 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | I66043334 |
|------------------|--------------|----------------------|----------|----------|---|-----------|

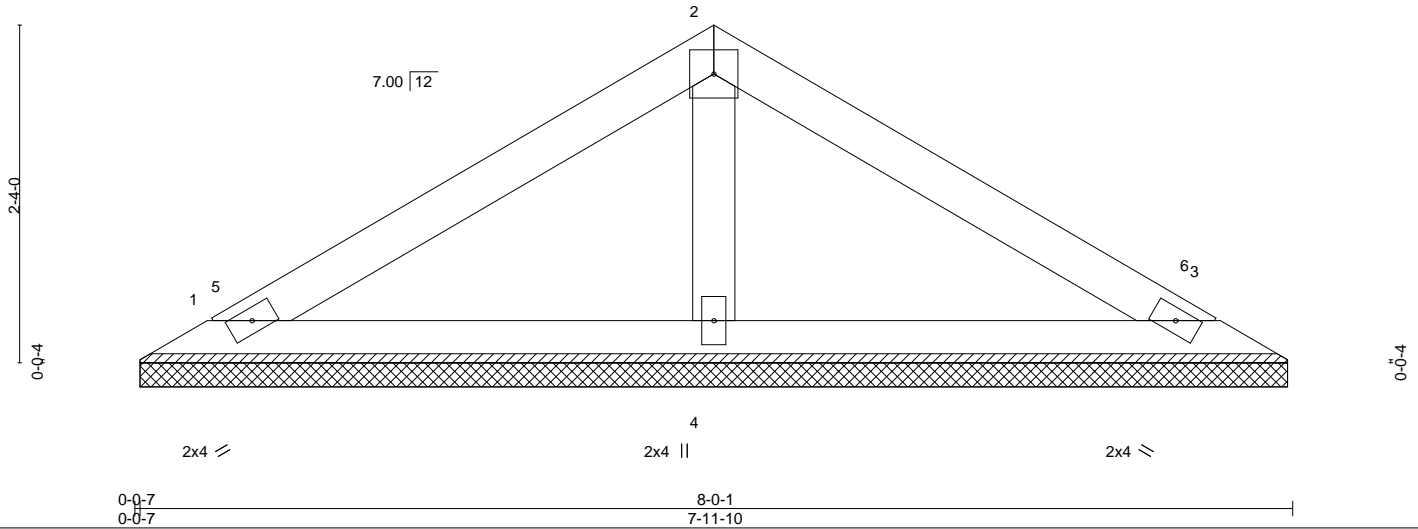
Riverside Roof Truss, LLC, Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:53:03 2024 Page 1
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4x4 =

Scale: 3/4"=1'



| | | | | | |
|------------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.24 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.12 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.04 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 26 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |

REACTIONS. (size) 1=7-11-3, 3=7-11-3, 4=7-11-3
 Max Horz 1=40(LC 14)
 Max Uplift 1=23(LC 16), 3=23(LC 16)
 Max Grav 1=145(LC 2), 3=145(LC 2), 4=264(LC 2)

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

NOTES-

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



June 6, 2024

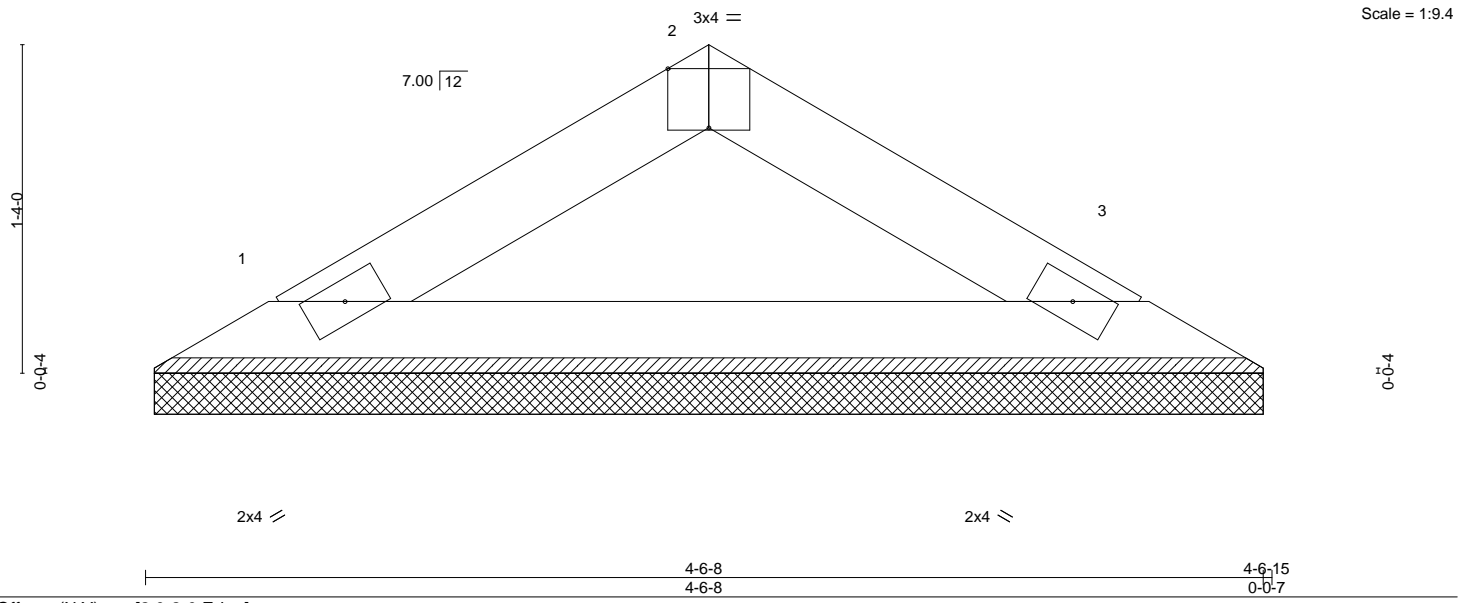
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|------------------|--------------|----------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss V05 | Truss Type Valley | Qty 1 | Ply 1 | RVF-LOT #8 ROOF | I66043335 |
|------------------|--------------|----------------------|----------|----------|-----------------|-----------|

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:53:04 2024 Page 1

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4-6-15
2-3-7



Scale = 1:9.4

| | | | | | |
|------------------------|----------------------|----------------|-------------------------|---------------|-------------|
| Plate Offsets (X,Y)-- | [2:0-2-0,Edge] | 4-6-8 4-6-8 | 4-6-15 0-0-7 | | |
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.05 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.15 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.00 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 13 lb | FT = 20% |

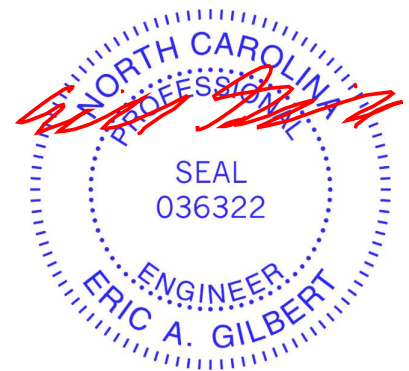
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|-----------------------|--|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 4-6-15 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |

REACTIONS. (size) 1=4-6-1, 3=4-6-1
 Max Horz 1=-20(LC 14)
 Max Uplift 1=-8(LC 16), 3=-8(LC 16)
 Max Grav 1=140(LC 2), 3=140(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; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



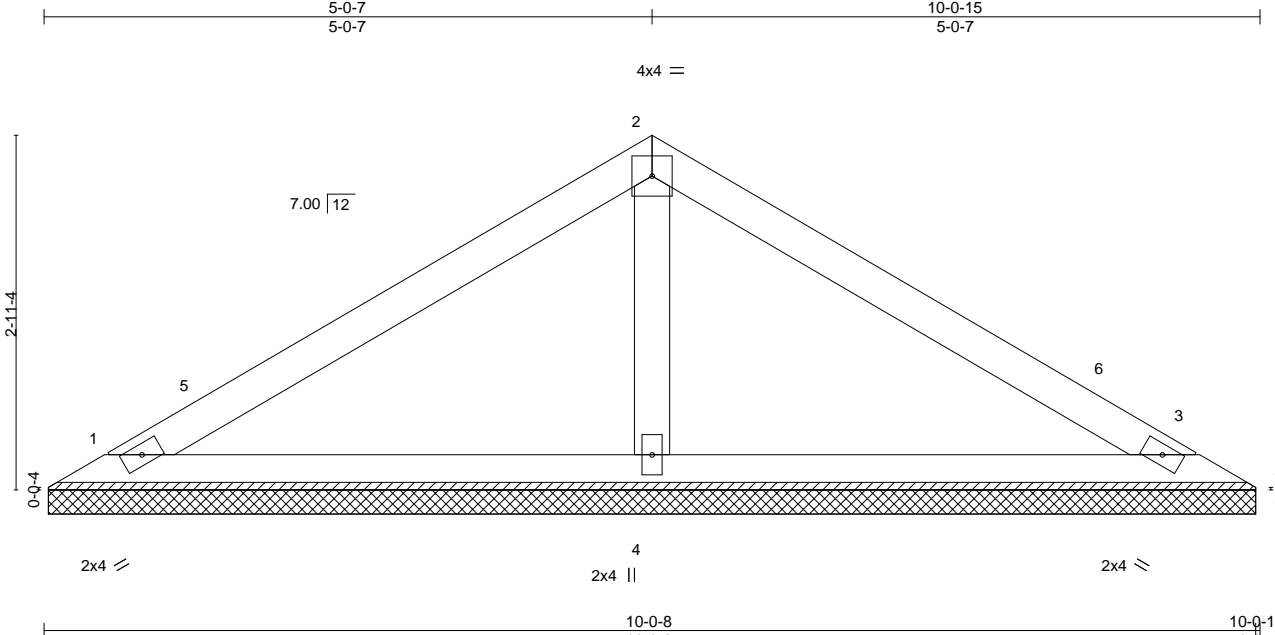
June 6, 2024

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|------------------|--------------|----------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss V06 | Truss Type Valley | Qty 1 | Ply 1 | RVF-LOT #8 ROOF | 166043336 |
|------------------|--------------|----------------------|----------|----------|-----------------|-----------|

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

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Scale = 1:19.1

| | | | | | |
|------------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.31 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.20 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.06 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 34 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |

REACTIONS. (size) 1=10-0-1, 3=10-0-1, 4=10-0-1
 Max Horz 1=-52(LC 14)
 Max Uplift 1=-22(LC 16), 3=-22(LC 16)
 Max Grav 1=170(LC 2), 3=170(LC 2), 4=379(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; TCCL=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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 5-0-7, Exterior(2R) 5-0-7 to 8-0-7, Interior(1) 8-0-7 to 9-6-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



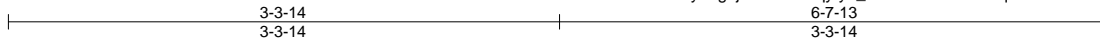
June 6, 2024

| | | | | | | |
|------------------|--------------|----------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss V07 | Truss Type Valley | Qty 1 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | I66043337 |
|------------------|--------------|----------------------|----------|----------|---|-----------|

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

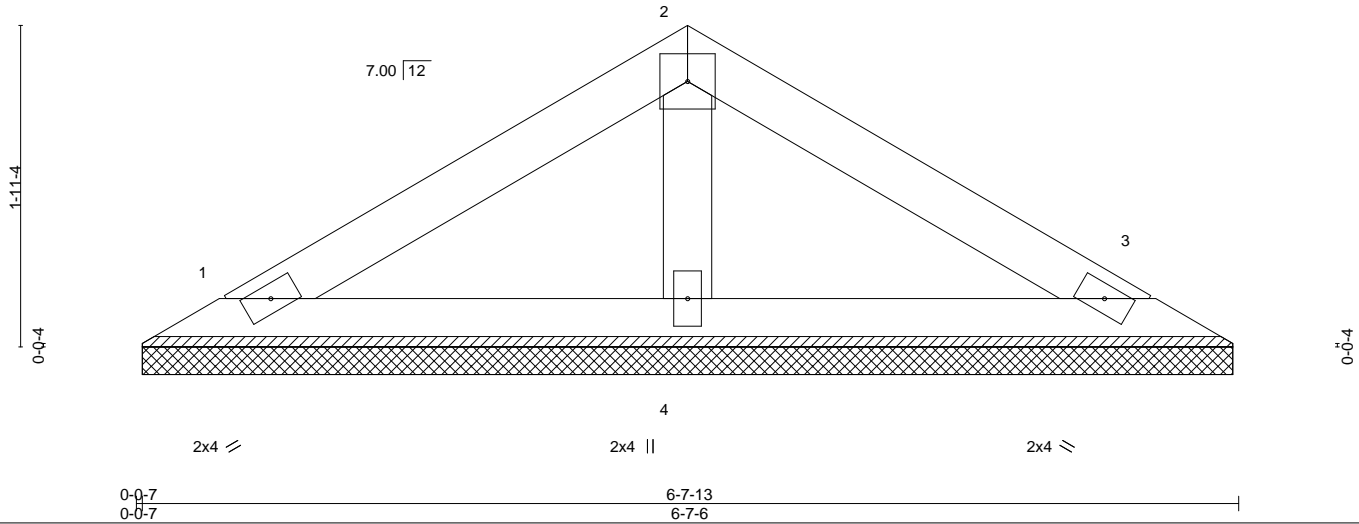
8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:53:05 2024 Page 1

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4x4 =

Scale = 1:13.9



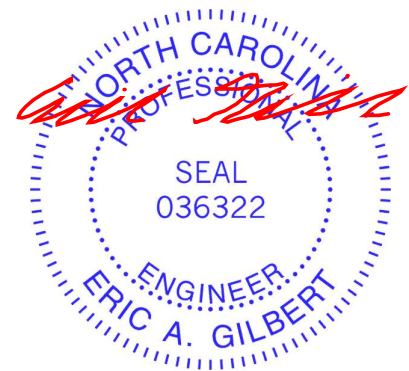
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|------------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.15 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.08 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.03 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 21 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |

REACTIONS. (size) 1=6-6-15, 3=6-6-15, 4=6-6-15
 Max Horz 1=-32(LC 14)
 Max Uplift 1=-19(LC 16), 3=-19(LC 16)
 Max Grav 1=117(LC 20), 3=117(LC 21), 4=213(LC 2)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



| | | | | | | |
|------------------|--------------|----------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss V08 | Truss Type Valley | Qty 1 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | 166043338 |
|------------------|--------------|----------------------|----------|----------|---|-----------|

Riverside Roof Truss, LLC,

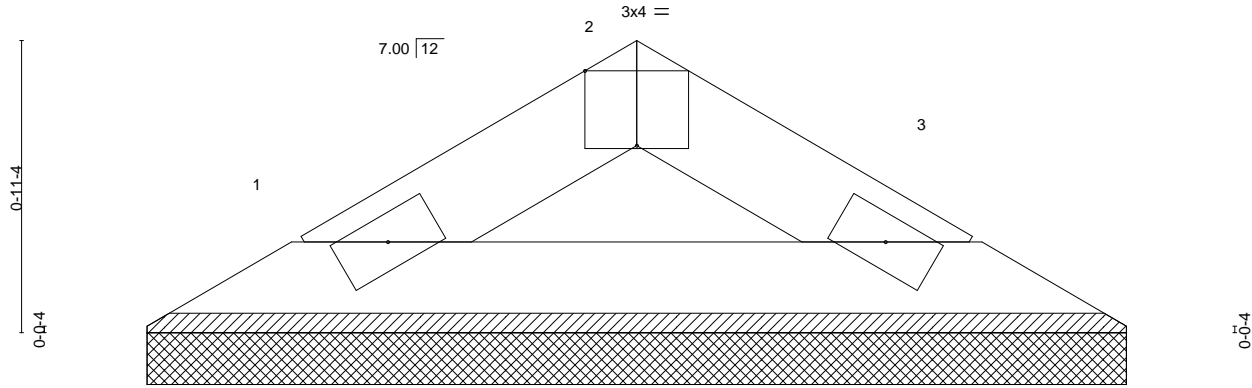
Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:53:05 2024 Page 1

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Scale = 1:7.4



2x4

2x4

0-0-7
0-0-7

3-2-10
3-2-3

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

| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | | | PLATES | GRIP | |
|---------------|-----------|-----------------|-----------------|----------|------|----------|------|---|-----|--------|--------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 2-0-0 | TC | 0.02 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 11.6/15.0 | Lumber DOL | 1.15 | BC | 0.05 | 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 | Matrix-P | | | | | | | Weight: 8 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

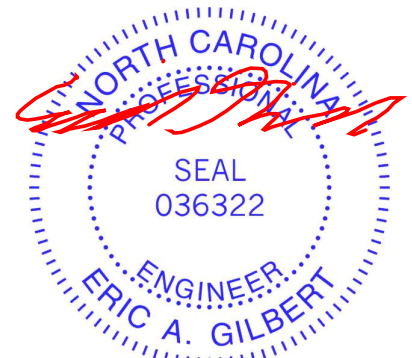
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-1-13, 3=3-1-13
Max Horz 1=-12(LC 14)
Max Uplift 1=-5(LC 16), 3=-5(LC 16)
Max Grav 1=86(LC 2), 3=86(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; 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
- 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.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH 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)



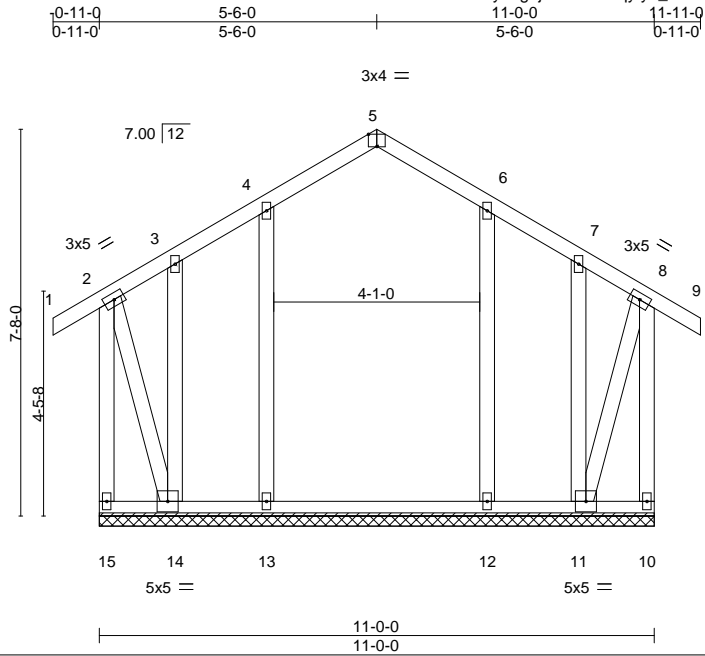
818 Soundside Road
Edenton, NC 27932

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|------------------|----------------|---------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss V09GE | Truss Type GABLE | Qty 1 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | I66043339 |
|------------------|----------------|---------------------|----------|----------|---|-----------|

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

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Scale = 1:45.7

Plate Offsets (X,Y)-- [5:0-2-0,Edge]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|------------------------|----------------------|----------|----------------------------|---------------|----------|
| TCLL (roof) 20.0 | 2-0-0 | TC 0.20 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.17 | Vert(LL) -0.00 9 n/r 120 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.15 | Vert(CT) -0.01 8-9 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) -0.00 10 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 95 lb | FT = 20% |

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 11-0-0.
 (lb) - Max Horz 15=-212(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) except 15=-140(LC 14), 10=-128(LC 15), 14=-257(LC 16), 11=-257(LC 16)
 Max Grav All reactions 250 lb or less at joint(s) 11 except 15=422(LC 29), 10=413(LC 28), 13=361(LC 28), 12=358(LC 29), 14=255(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-15=-383/134, 8-10=-374/122
 WEBS 2-14=-215/379, 8-11=-204/367

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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 5-6-0, Exterior(2R) 5-6-0 to 8-6-0, Interior(1) 8-6-0 to 11-11-0 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
 - 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.
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 15, 128 lb uplift at joint 10, 257 lb uplift at joint 14 and 257 lb uplift at joint 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.



June 6, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



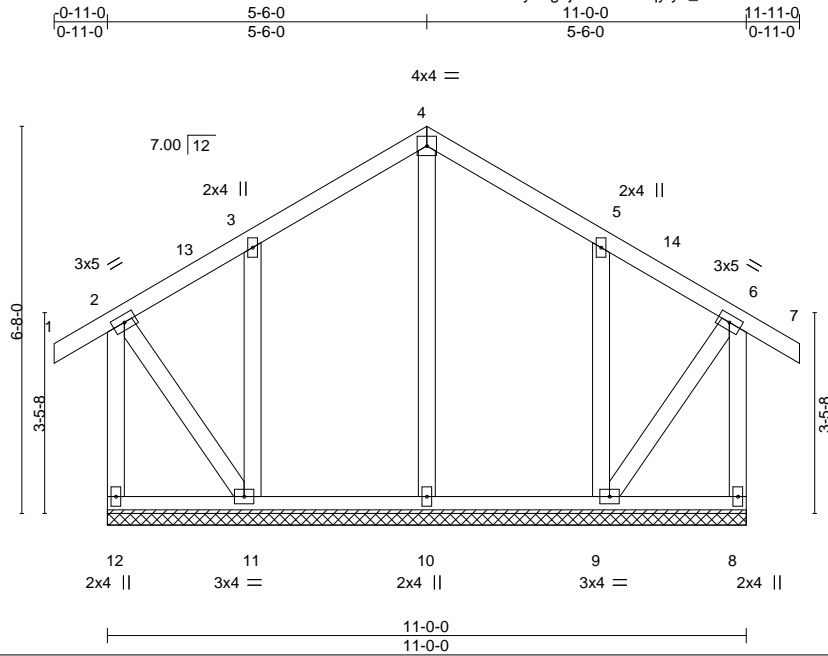
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|------------------|--------------|---------------------|----------|----------|------------------------------|
| Job 24-3350-A | Truss V10 | Truss Type GABLE | Qty 1 | Ply 1 | RVF-LOT #8 ROOF 166043340 |
|------------------|--------------|---------------------|----------|----------|------------------------------|

Riverside Roof Truss, LLC,

Danville, Va - 24541,

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Scale = 1:39.7

| | | | | | |
|------------------------|----------------------|-------------|--------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.11 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.10 | Vert(LL) -0.00 7 n/r 120 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.14 | Vert(CT) -0.00 7 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) -0.00 8 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 81 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |
| OTHERS 2x4 SP No.3 | |

REACTIONS. All bearings 11-0-0.
 (lb) - Max Horz 12=179(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 8, 11, 9
 Max Grav All reactions 250 lb or less at joint(s) 12, 8 except 10=315(LC 30), 11=380(LC 28), 9=366(LC 29)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; 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 5-6-0, Exterior(2R) 5-6-0 to 8-6-0, Interior(1) 8-6-0 to 11-11-0 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
 - 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.
 - 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8, 11, 9.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6, 2024

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|------------------|--------------|---------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss V11 | Truss Type GABLE | Qty 1 | Ply 1 | RVF-LOT #8 ROOF | 166043341 |
|------------------|--------------|---------------------|----------|----------|-----------------|-----------|

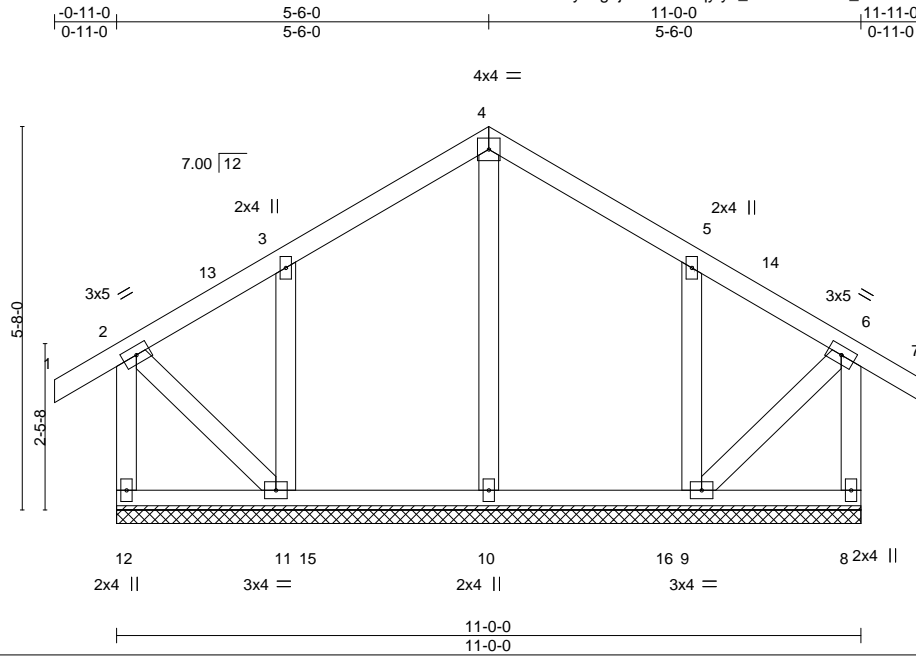
Riverside Roof Truss, LLC,

Danville, Va - 24541,

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Job Reference (optional)



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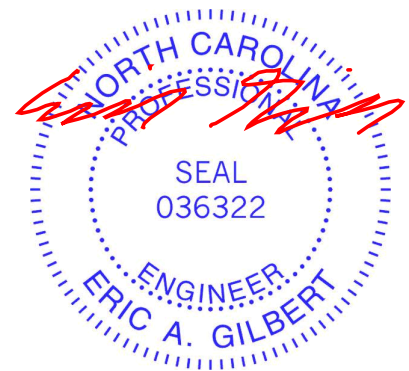
| | | | | | |
|------------------------|----------------------|-------------|--------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.11 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.10 | Vert(LL) -0.00 7 n/r 120 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.09 | Vert(CT) -0.00 7 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) -0.00 8 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 71 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |
| OTHERS 2x4 SP No.3 | |

REACTIONS. All bearings 11-0-0.
 (lb) - Max Horz 12=147(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 8, 11, 9
 Max Grav All reactions 250 lb or less at joint(s) 12, 8 except 10=302(LC 30), 11=338(LC 28), 9=326(LC 29)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; 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 5-6-0, Exterior(2R) 5-6-0 to 8-6-0, Interior(1) 8-6-0 to 11-11-0 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
 - 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.
 - 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8, 11, 9.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

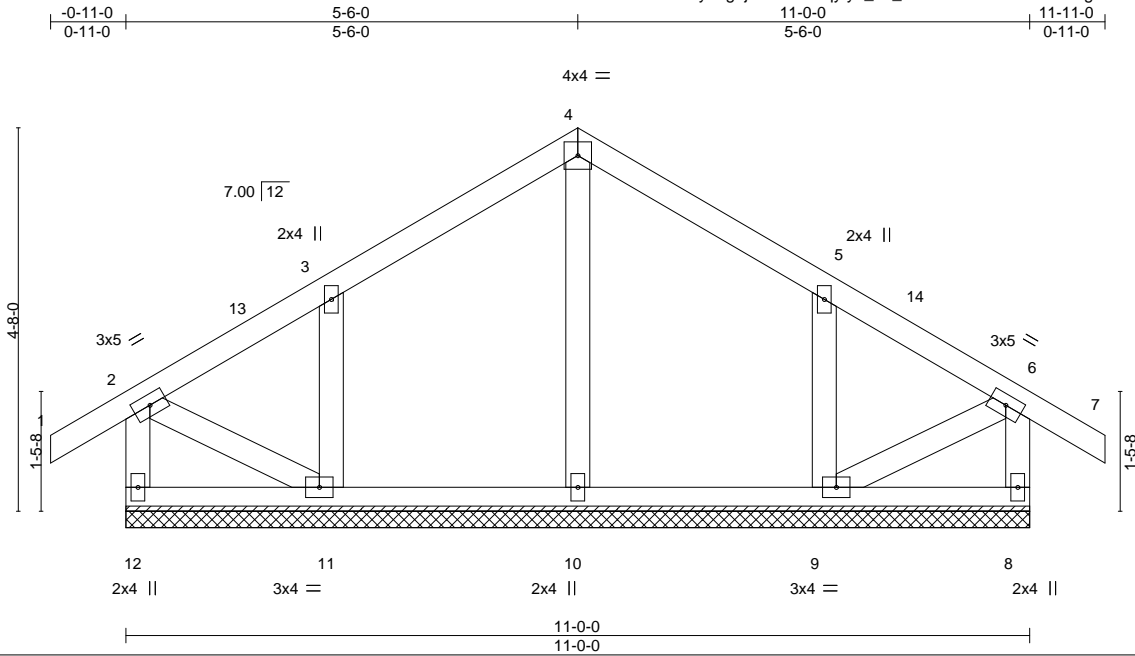


June 6, 2024

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|------------------|--------------|---------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss V12 | Truss Type GABLE | Qty 1 | Ply 1 | RVF-LOT #8 ROOF | 166043342 |
|------------------|--------------|---------------------|----------|----------|-----------------|-----------|

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:53:08 2024 Page 1
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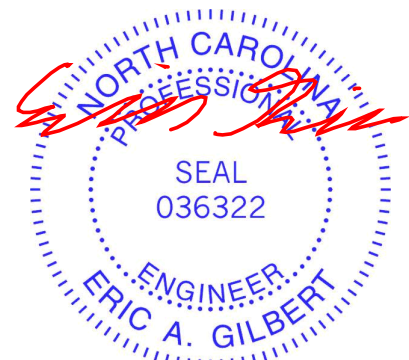
| | | | | | |
|------------------------|----------------------|-------------|--------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.11 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.06 | Vert(LL) -0.00 7 n/r 120 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.06 | Vert(CT) -0.00 7 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) -0.00 8 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 62 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |
| OTHERS 2x4 SP No.3 | |

REACTIONS. All bearings 11-0-0.
 (lb) - Max Horz 12=115(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 8, 11, 9
 Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10, 11, 9

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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 5-6-0, Exterior(2R) 5-6-0 to 8-6-0, Interior(1) 8-6-0 to 11-11-0 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
 - 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.
 - 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8, 11, 9.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

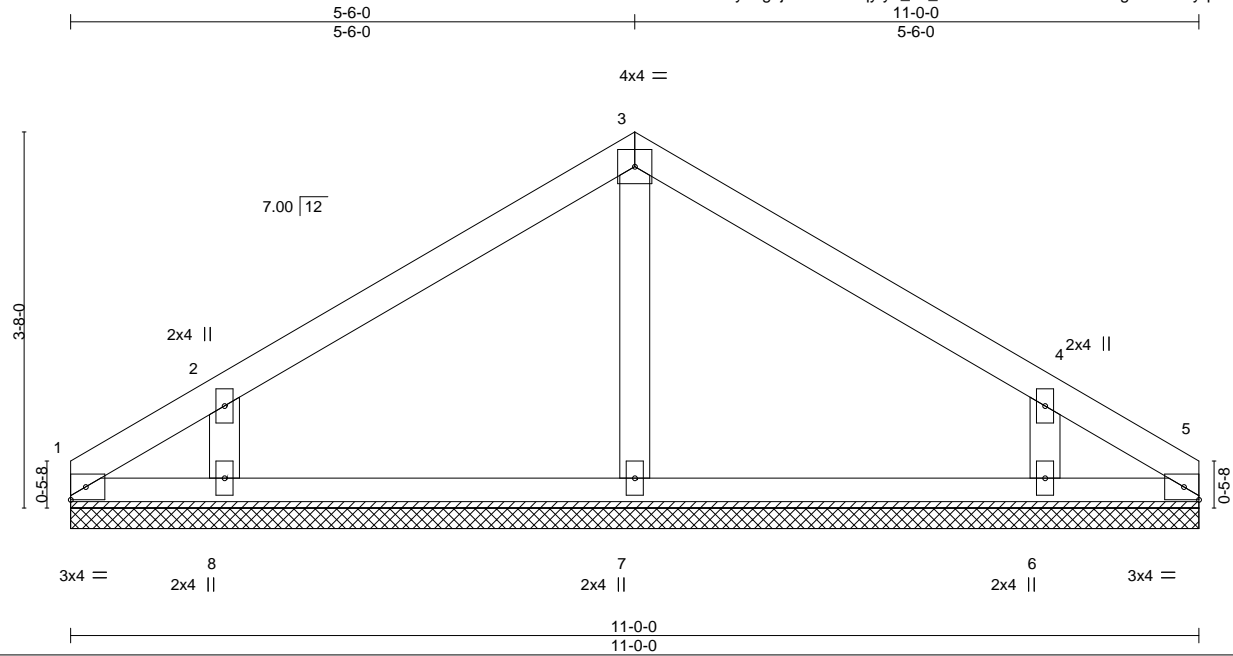


June 6, 2024

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|------------------|--------------|----------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss V13 | Truss Type Valley | Qty 1 | Ply 1 | RVF-LOT #8 ROOF | 166043343 |
|------------------|--------------|----------------------|----------|----------|-----------------|-----------|

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:53:08 2024 Page 1
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| | | | | | |
|------------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.20 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.12 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.05 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 5 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 43 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |

REACTIONS. All bearings 11-0-0.
 (lb) - Max Horz 1=67(LC 15)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=274(LC 2), 8=308(LC 20), 6=308(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-250/161, 4-6=-250/161

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-6-0, Exterior(2R) 5-6-0 to 8-6-0, Interior(1) 8-6-0 to 11-0-0 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
 - 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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|------------------|--------------|----------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss V14 | Truss Type Valley | Qty 1 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | 166043344 |
|------------------|--------------|----------------------|----------|----------|---|-----------|

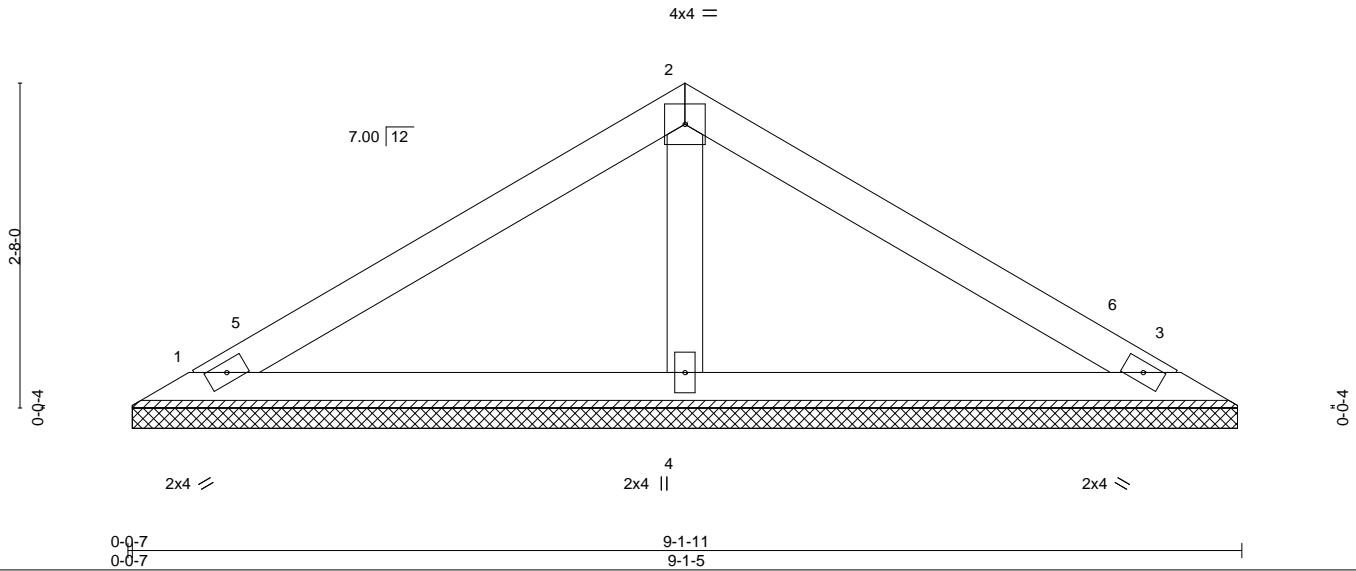
Riverside Roof Truss, LLC, Danville, Va - 24541,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:53:09 2024 Page 1

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Scale = 1:18.9



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|------------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.24 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.16 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.05 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 30 lb | FT = 20% |

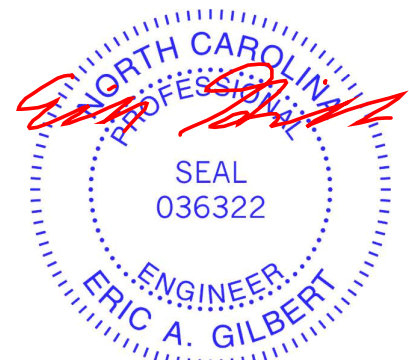
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|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |

REACTIONS. (size) 1=9-0-14, 3=9-0-14, 4=9-0-14
 Max Horz 1=47(LC 15)
 Max Uplift 1=-19(LC 16), 3=-19(LC 16)
 Max Grav 1=153(LC 2), 3=153(LC 2), 4=340(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; TCCL=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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 4-6-14, Exterior(2R) 4-6-14 to 7-6-14, Interior(1) 7-6-14 to 8-7-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6, 2024

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|------------------|--------------|----------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss V15 | Truss Type Valley | Qty 1 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | 166043345 |
|------------------|--------------|----------------------|----------|----------|---|-----------|

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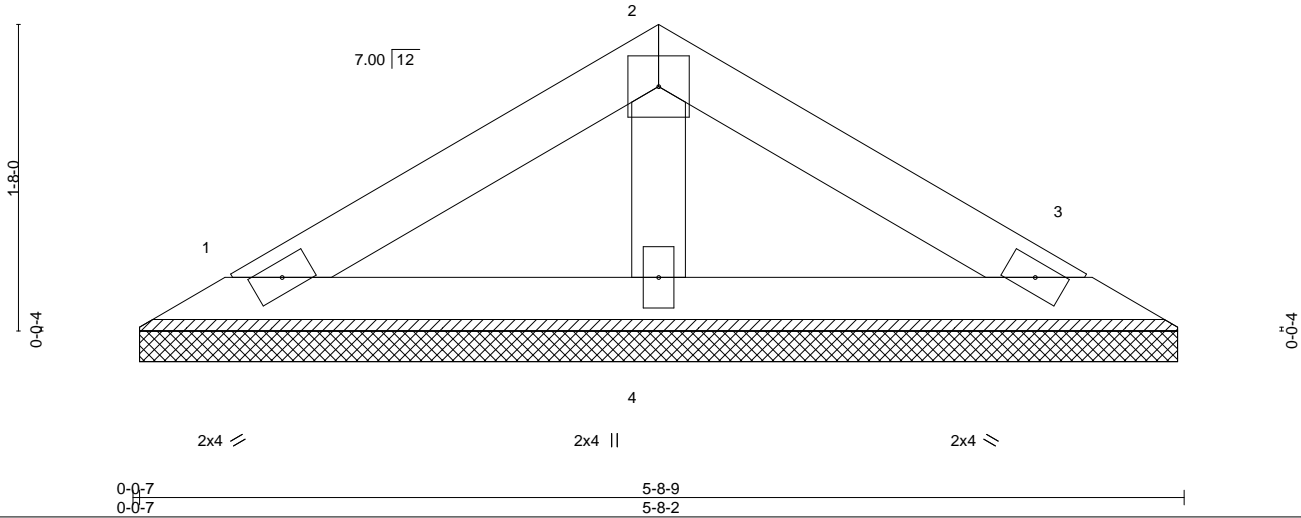
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4x4 =

Scale = 1:12.5



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|------------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.10 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.05 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.02 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 18 lb | FT = 20% |

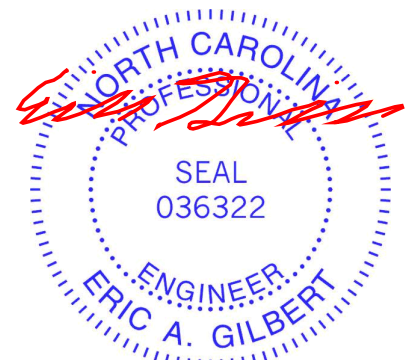
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|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 5-8-9 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |

REACTIONS. (size) 1=5-7-11, 3=5-7-11, 4=5-7-11
 Max Horz 1=27(LC 15)
 Max Uplift 1=16(LC 16), 3=16(LC 16)
 Max Grav 1=97(LC 2), 3=97(LC 2), 4=177(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; 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
- 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.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6, 2024

| | |
|--|---|
| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>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/TPH 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)</p> | <p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p> |
|--|---|

| | | | | | |
|------------------|--------------|----------------------|----------|----------|------------------------------|
| Job 24-3350-A | Truss V16 | Truss Type Valley | Qty 1 | Ply 1 | RVF-LOT #8 ROOF 166043346 |
|------------------|--------------|----------------------|----------|----------|------------------------------|

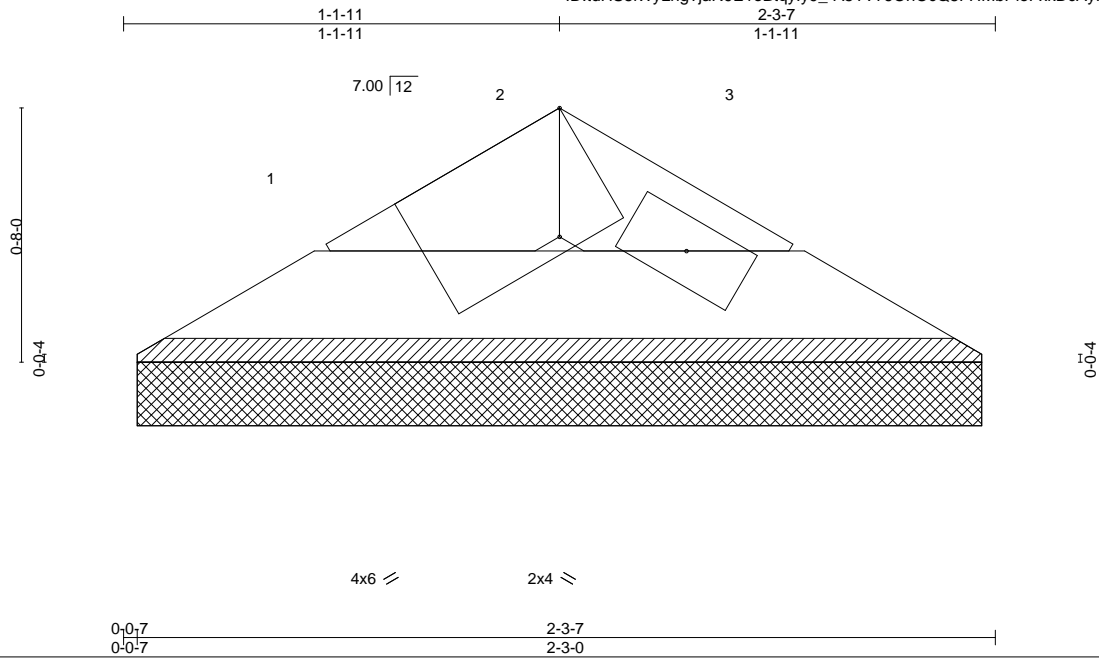
Riverside Roof Truss, LLC,

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Job Reference (optional)



Scale = 1:6.0

| | | | | | | | | |
|--------------------------------------|----------------------|----------------|---------------|----------|--------|-----|---------------|-------------|
| Plate Offsets (X,Y)-- [1:0-2-1,Edge] | 0.0.7 0.0.7 | 2-3-7 2-3-0 | | | | | | |
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.01 | Vert(LL) n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.02 | Vert(CT) n/a | - | n/a | 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.00 | Horz(CT) 0.00 | 3 | n/a | n/a | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-P | | | | | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | | | | Weight: 5 lb | FT = 20% |

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-2-9, 3=2-2-9
Max Horz 1=7(LC 14)
Max Uplift 1=3(LC 16), 3=3(LC 16)
Max Grav 1=48(LC 2), 3=48(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; 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
- 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.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



June 6, 2024

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

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



818 Soundside Road
Edenton, NC 27932

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|------------------|--------------|----------------------|----------|----------|---|-----------|
| Job 24-3350-A | Truss V17 | Truss Type Valley | Qty 1 | Ply 1 | RVF-LOT #8 ROOF Job Reference (optional) | I66043347 |
|------------------|--------------|----------------------|----------|----------|---|-----------|

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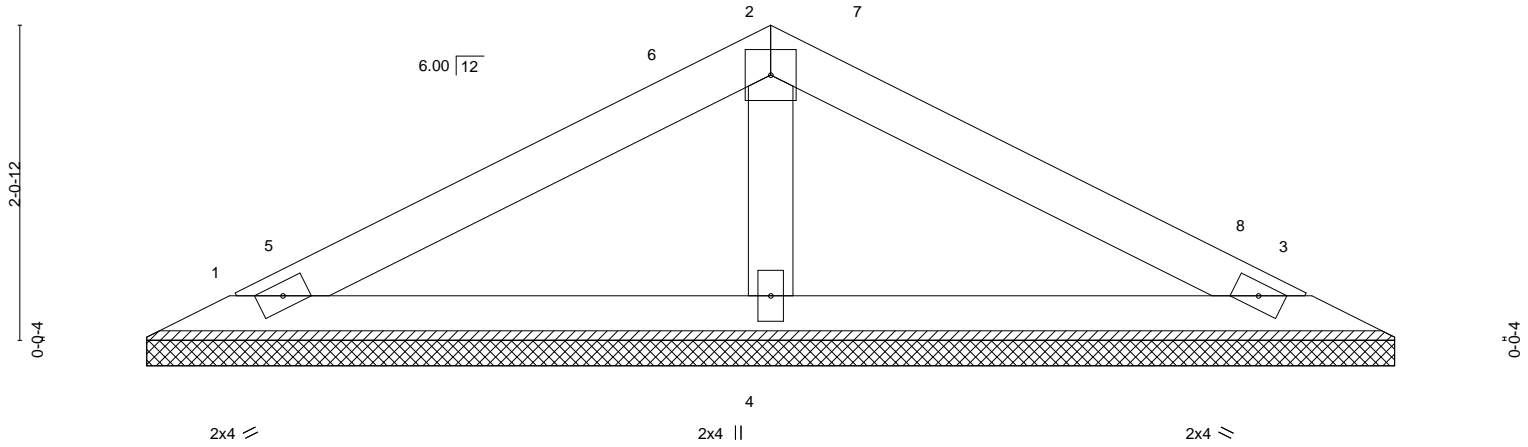
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4x4 =

Scale = 1:15.1



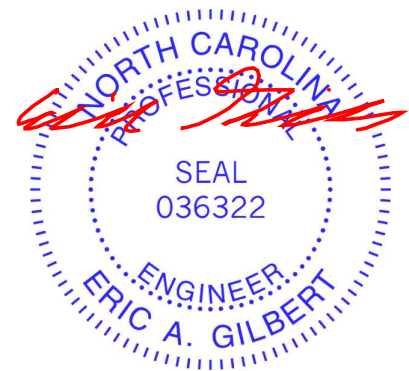
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|------------------------|----------------------|----------|-------------------------|---------------|----------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL (roof) 20.0 | 2-0-0 | TC 0.24 | in (loc) l/defl L/d | MT20 | 244/190 |
| Snow (Pf/Pg) 11.6/15.0 | Plate Grip DOL 1.15 | BC 0.12 | Vert(LL) n/a - n/a 999 | | |
| TCDL 10.0 | Lumber DOL 1.15 | WB 0.04 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2018/TPI2014 | | | Weight: 26 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.3 | |

REACTIONS. (size) 1=8-2-0, 3=8-2-0, 4=8-2-0
 Max Horz 1=-29(LC 14)
 Max Uplift 1=-21(LC 16), 3=-21(LC 16)
 Max Grav 1=145(LC 20), 3=145(LC 21), 4=276(LC 2)

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

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



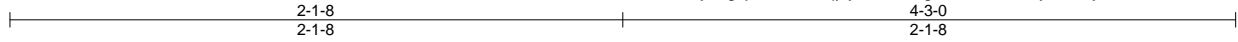
| | | | | | | |
|------------------|--------------|----------------------|----------|----------|-----------------|-----------|
| Job 24-3350-A | Truss V18 | Truss Type Valley | Qty 1 | Ply 1 | RVF-LOT #8 ROOF | 166043348 |
|------------------|--------------|----------------------|----------|----------|-----------------|-----------|

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

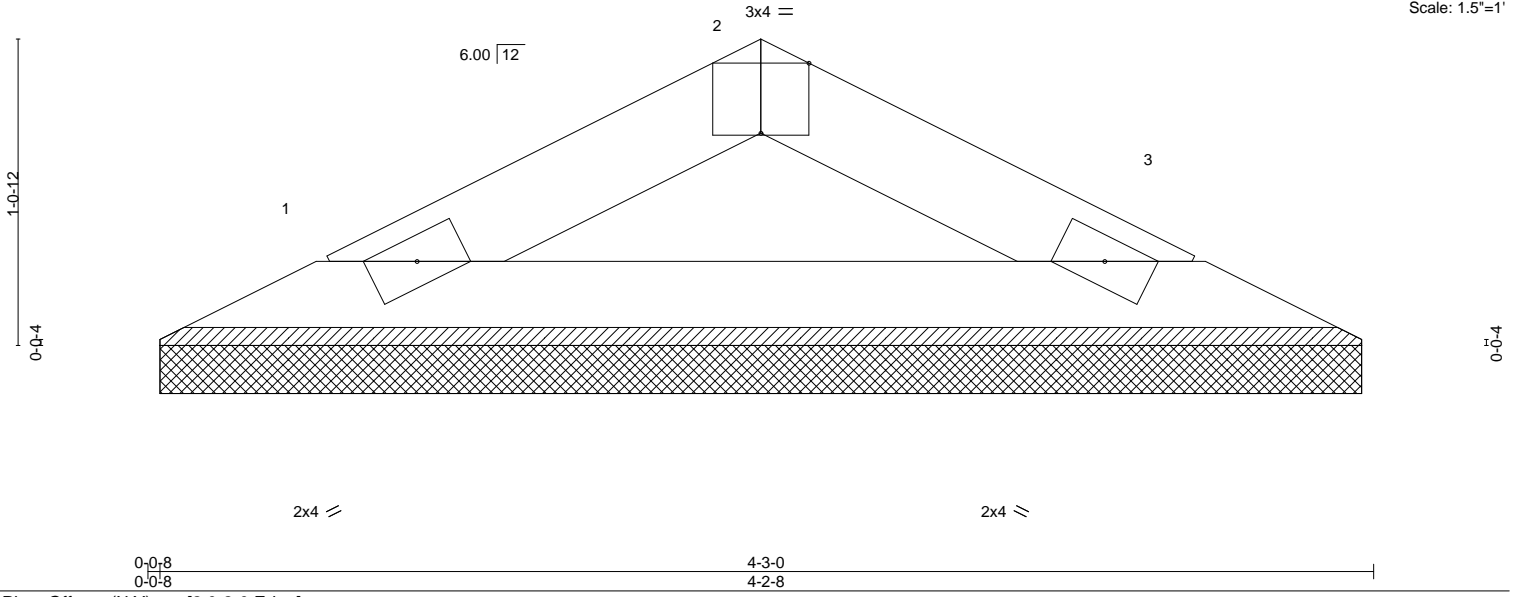
8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 5 10:53:10 2024 Page 1

ID:tdHS5lWylng?jaR9E1eBtqly9_eH6HgSPP9vY?iRxnYs9UUymnEMmCQkY?nAuhhUz9M6N

Job Reference (optional)



Scale: 1.5"=1'



| LOADING (psf) | | SPACING- | | CSI. | | DEFL. | | | | PLATES | GRIP | |
|---------------|-----------|-----------------|-----------------|----------|------|----------|------|---|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 2-0-0 | TC | 0.05 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 11.6/15.0 | Lumber DOL | 1.15 | BC | 0.11 | 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 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 11 lb | FT = 20% |

| LUMBER- | | BRACING- | |
|-----------|-------------|-----------|---|
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied or 4-3-0 oc purlins. |
| BOT CHORD | 2x4 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |

REACTIONS. (size) 1=4-2-0, 3=4-2-0
 Max Horz 1=12(LC 15)
 Max Uplift 1=7(LC 16), 3=7(LC 16)
 Max Grav 1=120(LC 2), 3=120(LC 2)

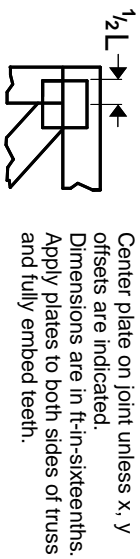
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 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
 - 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

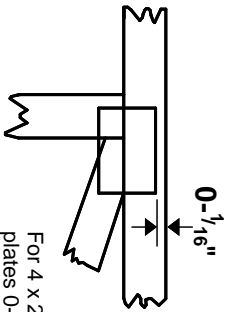


Symbols

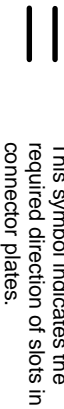
PLATE LOCATION AND ORIENTATION



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- 1/16\" from outside edge of truss.



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

PLATE SIZE

4 X 4

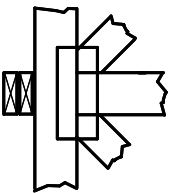
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

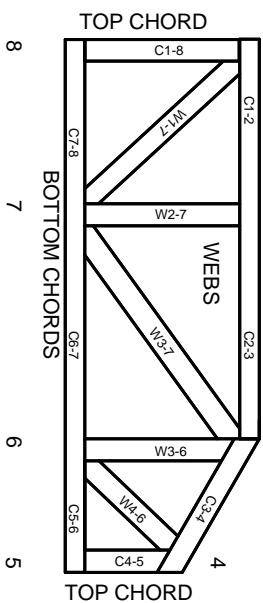
Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



1 TOP CHORDS
2 Joint ID
3 typ.



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/TP1 section 6.3. These truss designs rely on Lumber values established by others.

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MITek

ENGINEERING BY
TRENGO
A MITek Affiliate

MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability/bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.