

Trenco 818 Soundside Rd Edenton, NC 27932

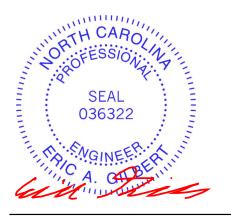
Re: J0524-3231 135 Duncans Creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I65918273 thru I65918287

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

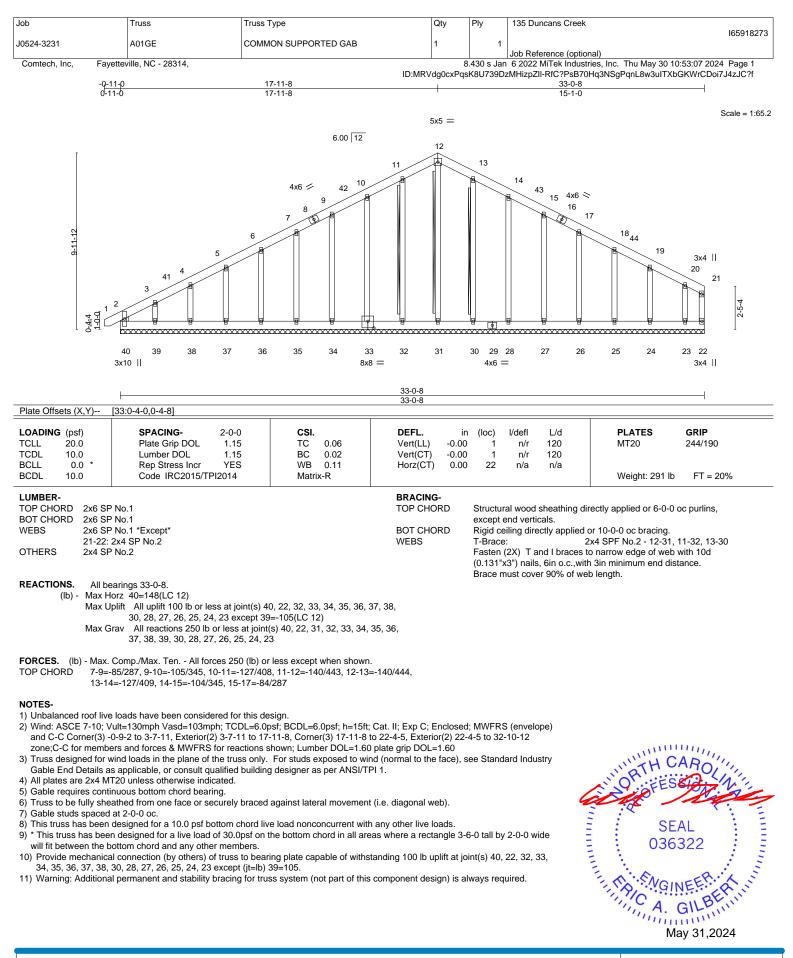
North Carolina COA: C-0844



May 31,2024

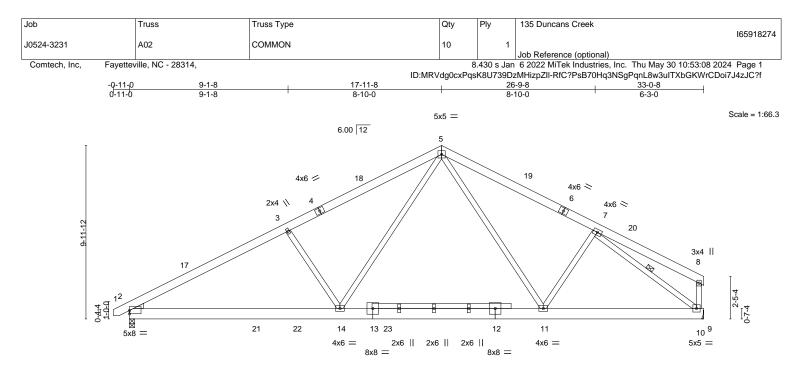
Gilbert, Eric

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.



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





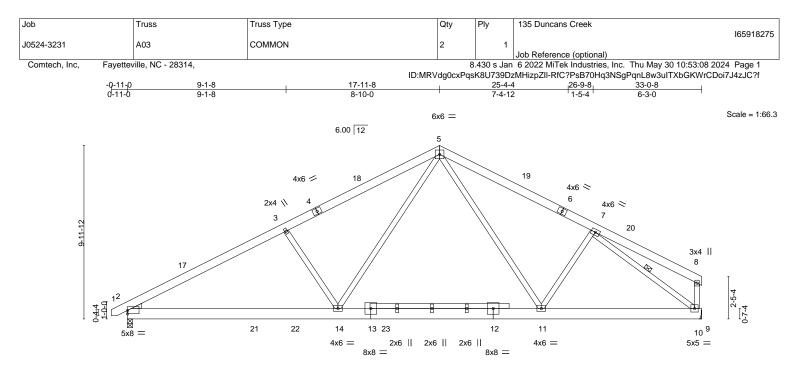
| | <u>12-1-5</u> 12-1-5 | | <u>23-9-11</u> 11-8-6 | | 33-0-8 9-2-13 | ——————————————————————————————————————— |
|---|---|---|--|---|---|---|
| Plate Offsets (X,Y) | [2:0-0-0,0-2-5] | | | | | |
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014 | CSI. TC 0.40 BC 0.44 WB 0.48 Matrix-S | Vert(LL) -0.14 Vert(CT) -0.21 Horz(CT) 0.03 | | PLATES MT20 Weight: 265 lb | GRIP 244/190 FT = 20% |
| 15-16: WEBS 2x4 SF WEDGE Left: 2x4 SP No.3 REACTIONS. (siz | P No.1 *Except* 2x4 SP No.1 P No.2 e) 2=0-3-8, 10=Mechanical | | BOT CHORD | Structural wood sheathing di except end verticals. Rigid ceiling directly applied 1 Row at midpt 7 | <i>y</i> 11 | 5 oc purlins, |
| Max L Max G FORCES. (Ib) - Max. TOP CHORD 2-3= BOT CHORD 2-14: | lorz 2=153(LC 12) Jplift 2=-95(LC 12), 10=-64(LC 13) Grav 2=1395(LC 2), 10=1327(LC 2) Comp./Max. Ten All forces 250 (lb) o -2278/473, 3-5=-2036/500, 5-7=-1686/4 =-374/1951, 11-14=-141/1222, 10-11=-2 =-470/305, 5-14=-133/1001, 5-11=-51/4 | 63 78/1394 | | | | |
| Wind: ASCE 7-10; V and C-C Exterior(2) for members and fo This truss has been * This truss has been | e loads have been considered for this de /ult=130mph Vasd=103mph; TCDL=6.0 -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 17 rces & MWFRS for reactions shown; Lu designed for a 10.0 psf bottom chord lix in designed for a live load of 30.0psf on pottom chord and any other members, w | osf; BCDL=6.0psf; h=15ft; -11-8, Exterior(2) 17-11-8 nber DOL=1.60 plate grip re load nonconcurrent with the bottom chord in all area | to 22-4-5, Interior(1) 22-4 DOL=1.60 any other live loads. | -5 to 32-9-4 zone;C-C | TH C | ARO |

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.



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| | | <u>12-1-5</u> 12-1-5 | | | <u>17-11-8</u> 5-10-3 | <u>23-9-11</u> 5-10-3 | | 25-4-4 | <u>33-0-8</u> 7-8-4 | — |
|---------------------|-----------------|-------------------------|--------|------|--------------------------|--------------------------|--------|--------|------------------------|----------|
| Plate Offsets (X,Y) | [2:0-0-0,0-2-5] | | | | | | | | | |
| LOADING (psf) | SPACING- | 2-1-8 | CSI. | | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC | 0.48 | Vert(LL) | -0.15 11-14 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC | 0.52 | Vert(CT) | -0.22 11-14 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | NO | WB | 0.51 | Horz(CT) | 0.04 10 | n/a | n/a | | |
| 3CDL 10.0 | Code IRC2015/T | PI2014 | Matrix | <-S | Wind(LL) | 0.05 2-14 | >999 | 240 | Weight: 265 lb | FT = 20% |

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x8 SP No.1 *Except* 15-16: 2x4 SP No.1 2x4 SP No.2 WEBS WEDGE

Left: 2x4 SP No.3

| REACTIONS. | (size) | 2=0-3-8, 10=Mechanical |
|------------|------------|------------------------------|
| | Max Horz | 2=162(LC 12) |
| | Max Uplift | 2=-101(LC 12), 10=-68(LC 13) |
| | Max Grav | 2=1482(LC 2), 10=1410(LC 2) |

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

TOP CHORD 2-3=-2420/503, 3-5=-2163/531, 5-7=-1792/492

- BOT CHORD 2-14=-397/2073, 11-14=-150/1298, 10-11=-296/1481
- WEBS 3-14=-500/324, 5-14=-141/1063, 5-11=-55/478, 7-10=-1865/370

NOTES-

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

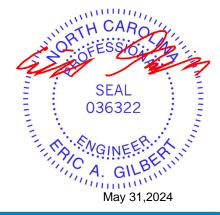
 Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 17-11-8, Exterior(2) 17-11-8 to 22-4-5, Interior(1) 22-4-5 to 32-9-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) * This truss has been designed for a live load of 30.0psf 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.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=101.



Structural wood sheathing directly applied or 4-8-13 oc purlins,

7-10

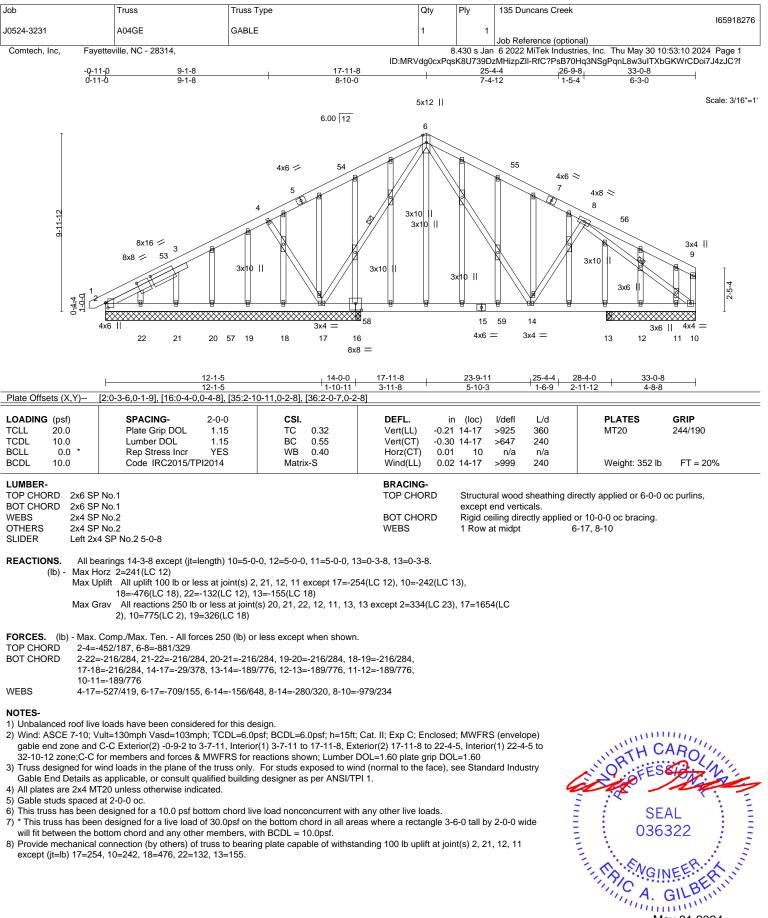
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Row at midpt

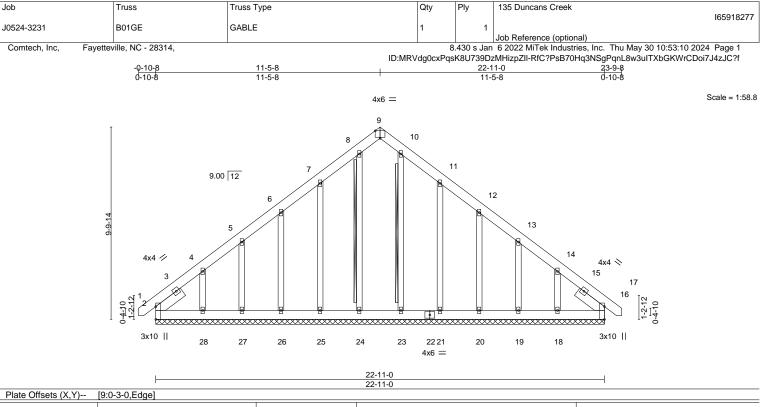
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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





May 31,2024

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| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES | CSI. TC 0.06 BC 0.03 WB 0.14 | DEFL. in Vert(LL) 0.00 Vert(CT) 0.00 Horz(CT) 0.00 | 16 16 | l/defl L/d n/r 120 n/r 120 n/a n/a | PLATES GRIP MT20 244/190 |
|--|---|---------------------------------------|---|----------|---|--|
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | 10 | nya nya | Weight: 210 lb FT = 20% |
| | | | | | | |

LUMBER-

 TOP CHORD
 2x6 SP No.1

 BOT CHORD
 2x6 SP No.1

 OTHERS
 2x4 SP No.2

 SLIDER
 Left 2x6 SP No.1 1-8-3, Right 2x6 SP No.1 1-8-3

BRACING-TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. T-Brace: 2x4 SPF No.2 - 8-24, 10-23 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 22-11-0.

(Ib) - Max Horz 2=-223(LC 8) Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 21, 20, 19, 16 except 28=-140(LC 12), 18=-132(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 24, 25, 26, 27, 28, 23, 21, 20, 19, 16, 18

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-9-0 to 3-7-13, Exterior(2) 3-7-13 to 11-5-8, Corner(3) 11-5-8 to 15-10-5, Exterior(2) 15-10-5 to 23-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

All plates are 2x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Gable studs spaced at 2-0-0 oc.

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

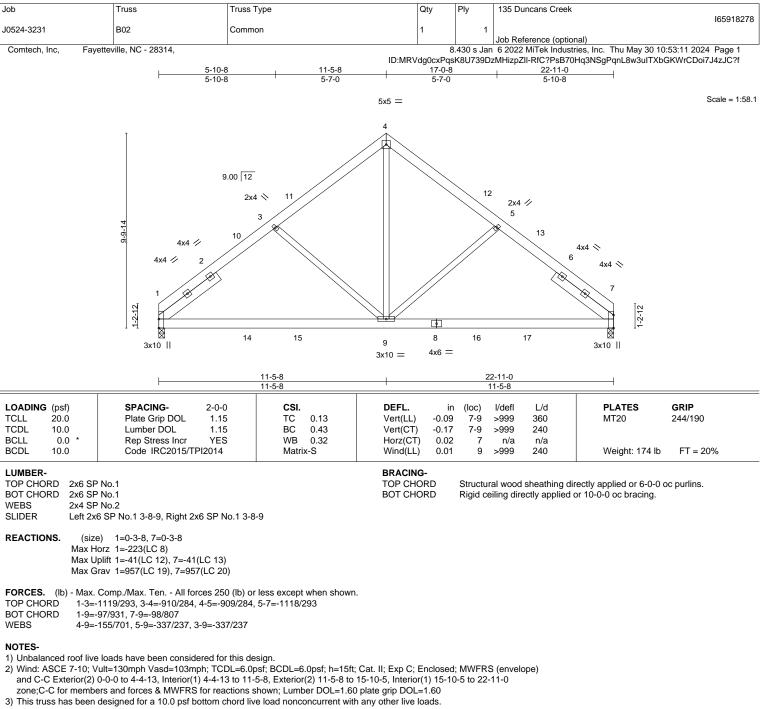
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 25, 26, 27, 21, 20, 19, 16 except (jt=lb) 28=140, 18=132.

10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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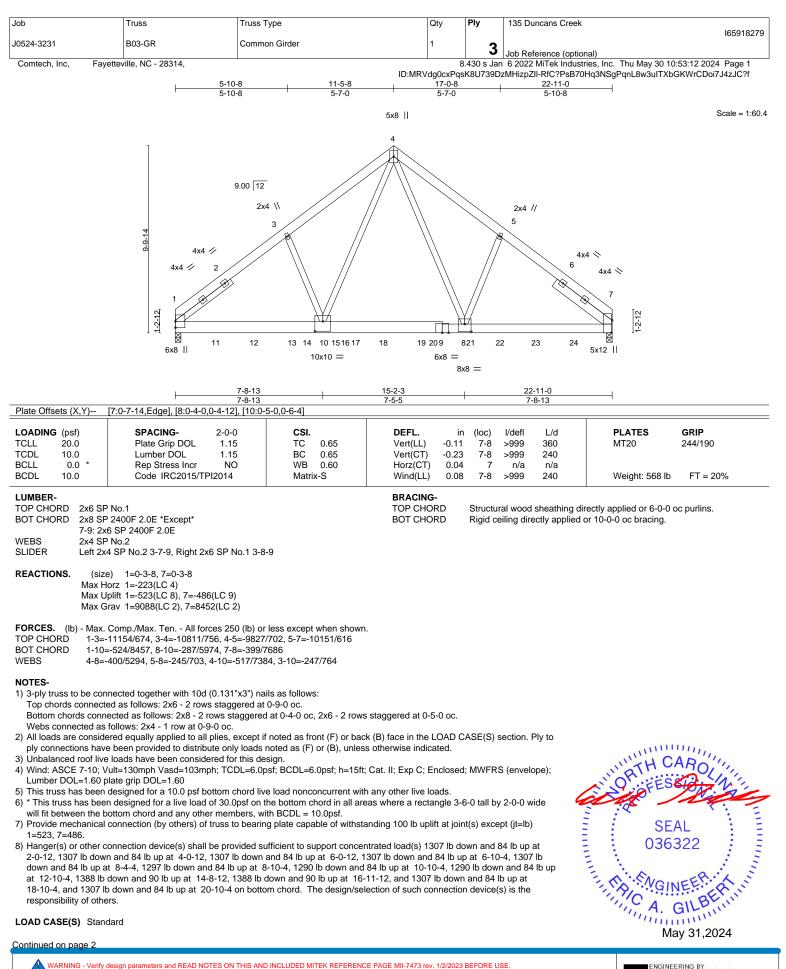


4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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



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| [| Job | Truss | Truss Type | Qty | Ply | 135 Duncans Creek |
|---|------------------------|-------------------|---------------|-----|------------|---|
| | | | | | | 165918279 |
| | J0524-3231 | B03-GR | Common Girder | 1 | 2 | |
| | | | | | 3 | Job Reference (optional) |
| | Comtech, Inc, Fayettev | ille, NC - 28314, | | 8 | .430 s Jan | 6 2022 MiTek Industries, Inc. Thu May 30 10:53:12 2024 Page 2 |

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu May 30 10:53:12 2024 Page 2 ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

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

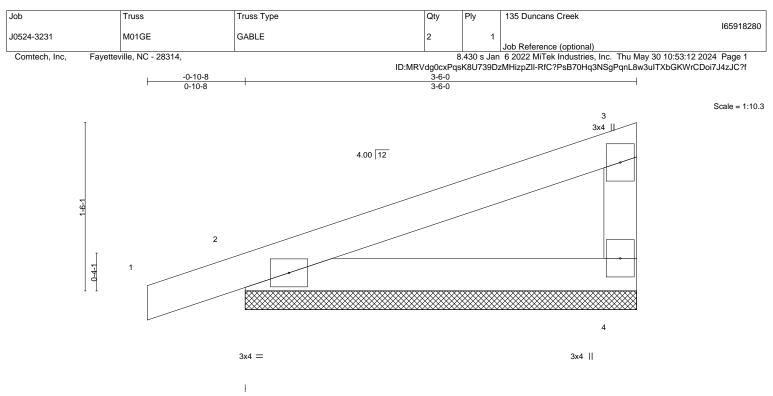
Uniform Loads (plf) Vert: 1-4=-60, 4-7=-60, 1-7=-20

Concentrated Loads (lb)

Vert: 11=-1290(B) 12=-1290(B) 13=-1290(B) 14=-1290(B) 15=-1290(B) 16=-1290(B) 18=-1290(B) 19=-1290(B) 21=-1370(B) 22=-1370(B) 23=-1290(B) 24=-1290(B) 24=-1290(B) 16=-1290(B) 16=-1290(B)

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| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014 | CSI. TC 0.17 BC 0.10 WB 0.00 Matrix-P | DEFL. in Vert(LL) -0.00 Vert(CT) 0.00 Horz(CT) 0.00 | (loc) 1 1 | l/defl n/r n/r n/a | L/d 120 120 n/a | PLATES GRIP MT20 244/190 Weight: 14 lb FT = 20% |
|--|---|---|---|-----------------|-----------------------------|--------------------------|---|
| LUMBER- | | | BRACING- | | | | |

TOP CHORD

BOT CHORD

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

2x4 SP No.2

REACTIONS. 4=3-6-0, 2=3-6-0 (size) Max Horz 2=50(LC 8) Max Uplift 4=-19(LC 12), 2=-44(LC 8)

Max Grav 4=127(LC 1), 2=194(LC 1)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry

Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

3) Gable requires continuous bottom chord bearing. 4) Gable studs spaced at 2-0-0 oc.

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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



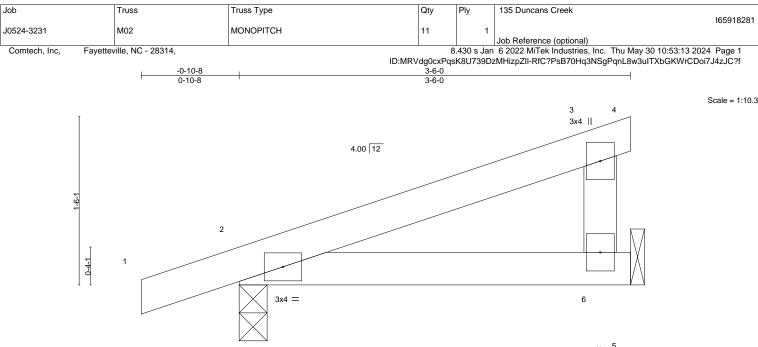
Structural wood sheathing directly applied or 3-6-0 oc purlins,

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

except end verticals.

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3x4 || ⁵

| | | 3-6-0 | | | | | | | 1 | | |
|---------------|--------------------|-------|--------|------|----------|-------|-------|--------|-----|---------------|----------|
| LOADING (psf) | SPACING- 2 | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC | 0.10 | Vert(LL) | -0.00 | 2-6 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | -0.01 | 2-6 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI20 | 014 | Matrix | (-P | Wind(LL) | 0.01 | 2-6 | >999 | 240 | Weight: 13 lb | FT = 20% |

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1WEBS2x4 SP No.2

BRACING-TOP CHORD

360

 TOP CHORD
 Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.

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

REACTIONS. (size) 6=Mechanical, 2=0-3-0 Max Horz 2=51(LC 8) Max Uplift 6=-50(LC 8), 2=-83(LC 8) Max Grav 6=126(LC 1), 2=193(LC 1)

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

NOTES-

 Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) * This truss has been designed for a live load of 30.0psf 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.

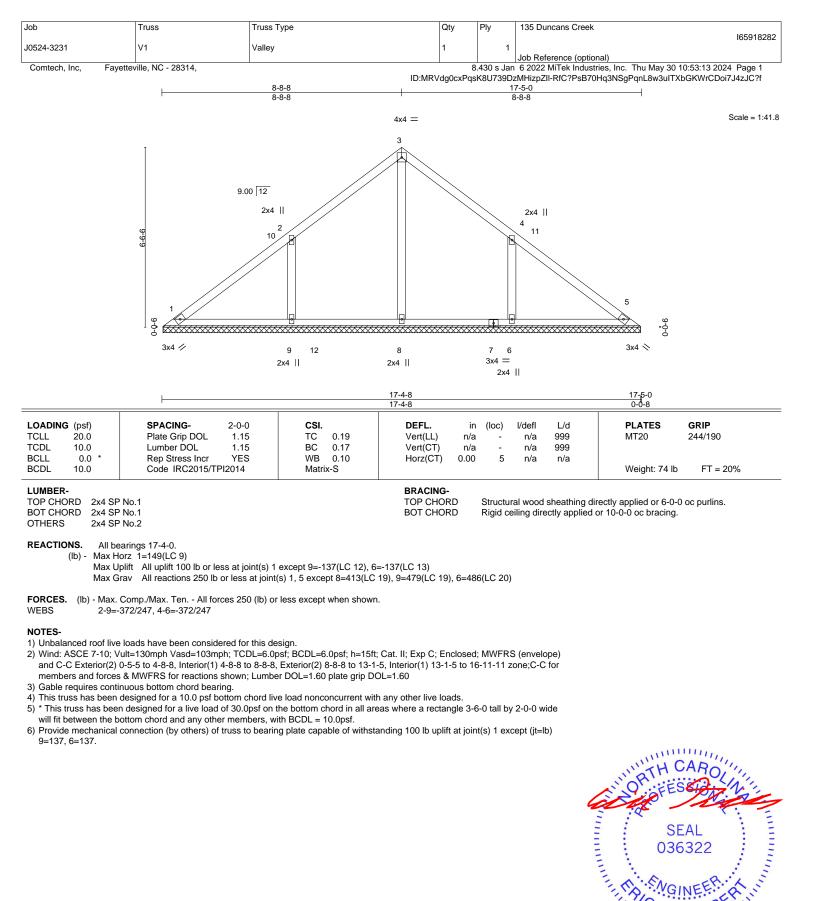
4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.



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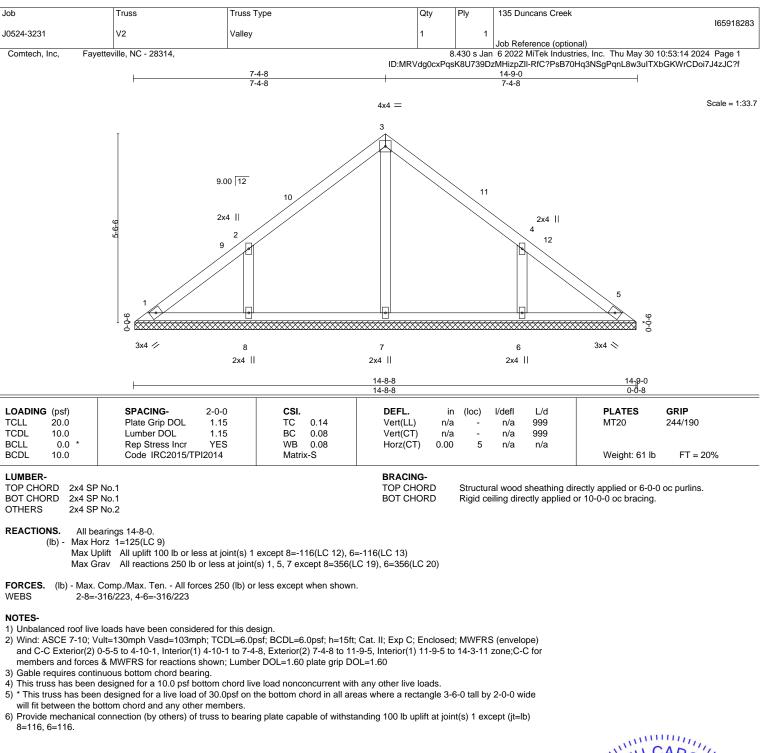




G mm May 31,2024

818 Soundside Road Edenton, NC 27932

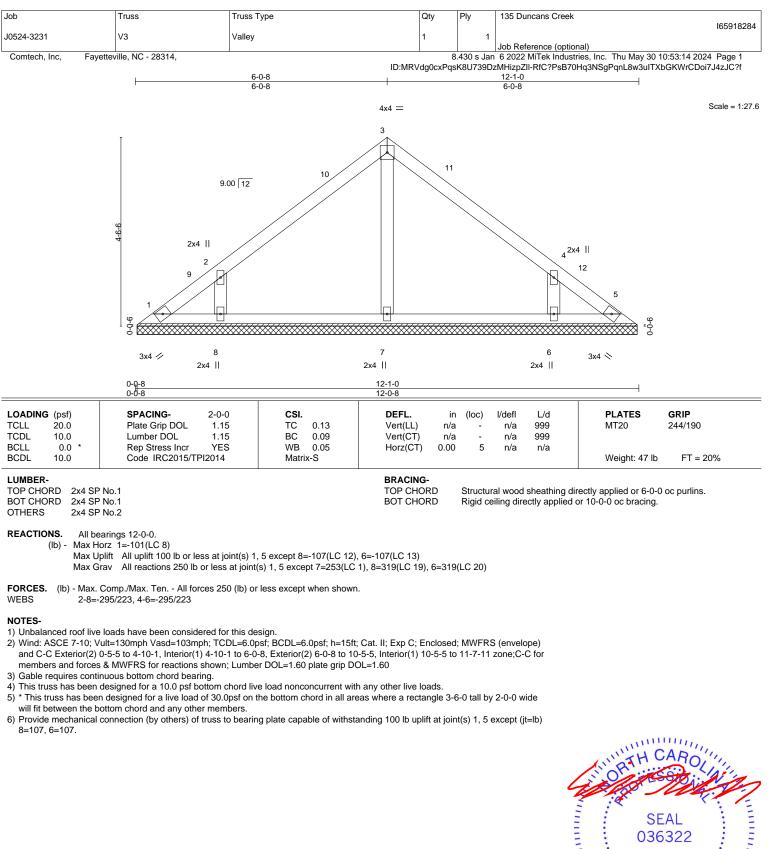
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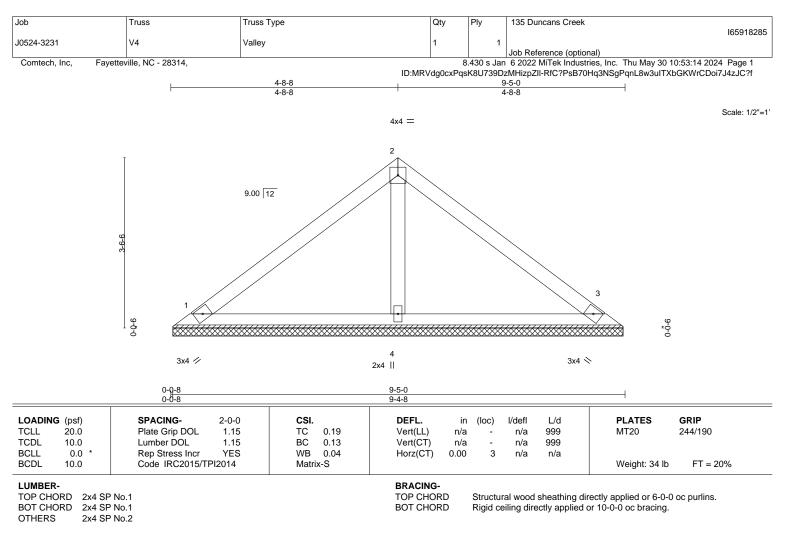
A MITek Affill 818 Soundside Road





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REACTIONS. (size) 1=9-4-0, 3=9-4-0, 4=9-4-0 Max Horz 1=77(LC 11) Max Uplift 1=-21(LC 12), 3=-28(LC 13) Max Grav 1=176(LC 1), 3=176(LC 1), 4=331(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

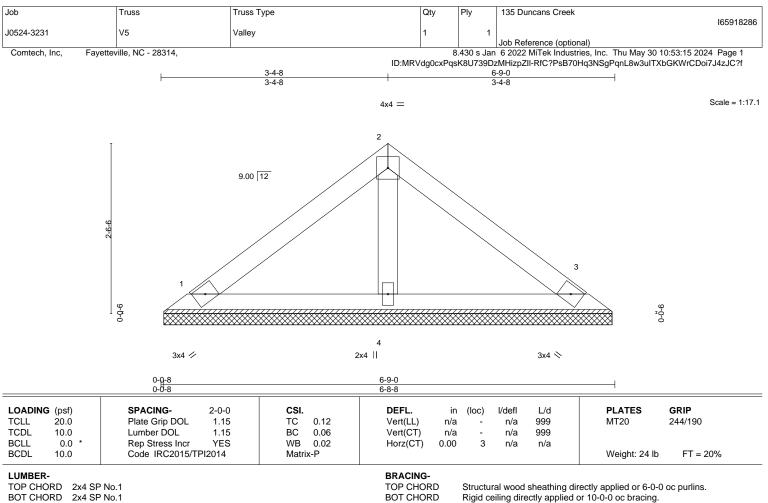
3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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



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BOT CHORD 2x4 SP No.1 OTHERS 2x4 SP No.2

REACTIONS. 1=6-8-0, 3=6-8-0, 4=6-8-0 (size) Max Horz 1=53(LC 11) Max Uplift 1=-20(LC 12), 3=-25(LC 13) Max Grav 1=132(LC 1), 3=132(LC 1), 4=206(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

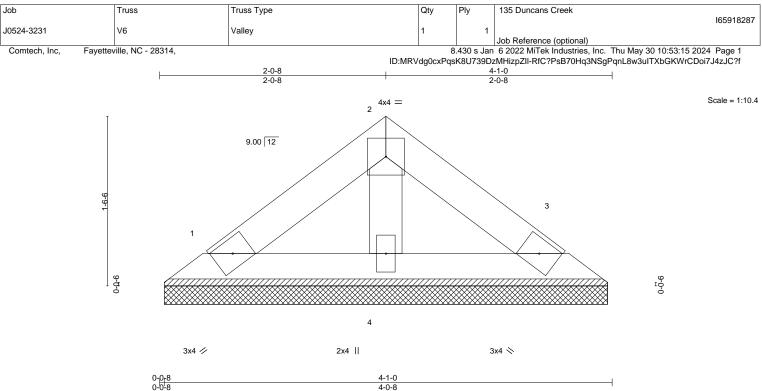
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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



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818 Soundside Road



| | | 0-0-8 | | 4-0-8 | | | 1 |
|--------|---------|----------------------|----------|---------------|-------|------------|------------------------|
| LOADIN | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. in | (loc) | l/defl L/d | PLATES GRIP |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.03 | Vert(LL) n/a | - | n/a 999 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.02 | Vert(CT) n/a | - | n/a 999 | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.01 | Horz(CT) 0.00 | 3 | n/a n/a | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | Matrix-P | | | | Weight: 13 lb FT = 20% |

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1OTHERS2x4 SP No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-1-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-0-0, 3=4-0-0, 4=4-0-0 Max Horz 1=-29(LC 10) Max Uplift 1=-11(LC 12), 3=-14(LC 13) Max Grav 1=72(LC 1), 3=72(LC 1), 4=112(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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



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