

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0222-0873 Lot 68 South 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: I50346692 thru I50346717

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



February 22,2022

Sevier, Scott

**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.

Lot 68 South Creek Job Truss Truss Type Qty 150346692 J0222-0873 A1GE GABLE Job Reference (optional) Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:51:59 2022 Page 1

ID:8y2t5WtWsT0klEnlWg1L7Jzkxox-QBwVPgCRzKvat7E6Fw1uQMSLDhkKMFmKyH9xcHziwV\_ -0-10-8 0-10-8 31-11-0 15-11-8 15-11-8

Scale = 1:65.1

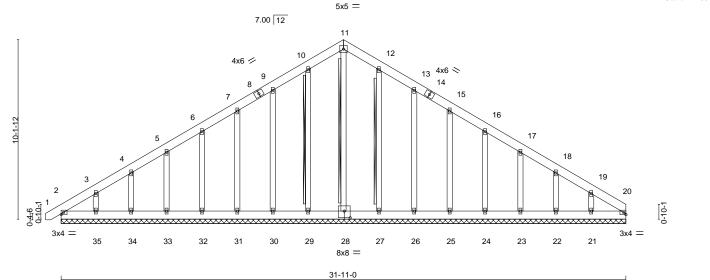


Plate Offsets (X,Y)--[28:0-4-0,0-4-8] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d 20.0 Plate Grip DOL TC 0.04 Vert(LL) -0.00244/190 TCLL 1.15 n/r 120 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.01 20 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 273 lb FT = 20%

31-11-0

LUMBER-

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD OTHERS** 2x4 SP No.2 **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. 2x4 SPF No.2 - 11-28, 10-29, 12-27

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 31-11-0.

(lb) - Max Horz 2=291(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22, 20 except 35=-126(LC 12), 21=-122(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22,

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

2-3=-300/233, 10-11=-235/263, 11-12=-236/263 TOP CHORD

### 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) gable end zone 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22, 20 except (jt=lb) 35=126, 21=122.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



February 22,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

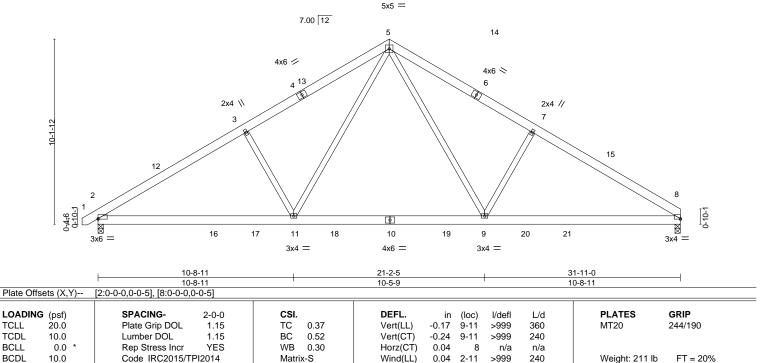
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Lot 68 South Creek Job Truss Truss Type Qty Ply 150346693 J0222-0873 A2 COMMON 20 Job Reference (optional) Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:02 2022 Page 1 ID:8y2t5WtWsT0kIEnIWg1L7Jzkxox-rmbe1hFJFFl8kazhx2ab2?4nNudBZazmeFObCcziwUx 23-9-11 31-11-0 -0-10-8 0-10-8 15-11-8 8-1-5 8-1-5 7-10-3 7-10-3

Scale = 1:63 1



**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

(size) 2=0-3-8, 8=0-3-8

Max Horz 2=233(LC 9)

Max Uplift 2=-83(LC 12), 8=-71(LC 13) Max Grav 2=1474(LC 19), 8=1423(LC 20)

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

TOP CHORD 2-3=-2181/400, 3-5=-2012/462, 5-7=-2015/470, 7-8=-2184/407

**BOT CHORD** 2-11=-224/1936, 9-11=-19/1273, 8-9=-225/1766

WEBS 5-9=-142/963, 7-9=-482/291, 5-11=-141/959, 3-11=-481/286

### 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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 15-11-8, Exterior(2) 15-11-8 to 20-4-5, Interior(1) 20-4-5 to 31-9-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

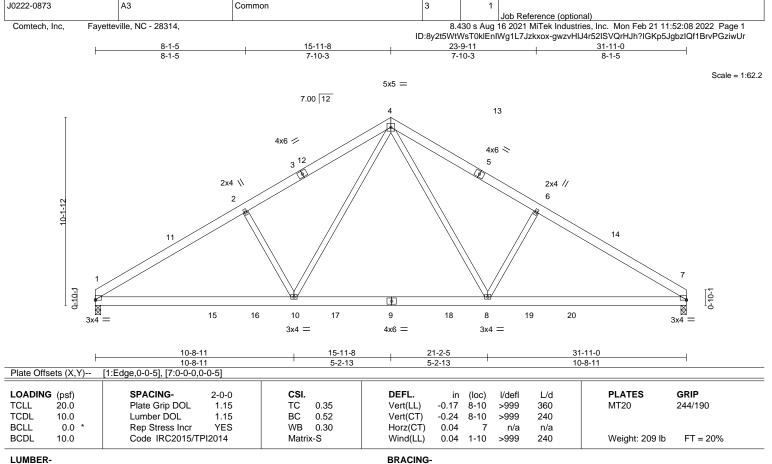


Structural wood sheathing directly applied or 5-0-12 oc purlins.

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

February 22,2022





TOP CHORD

**BOT CHORD** 

Qty

Lot 68 South Creek

150346694

LUMBER-

Job

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

REACTIONS.

(size) 7=0-3-8, 1=0-3-8 Max Horz 1=231(LC 11)

Truss

Truss Type

Max Uplift 7=-71(LC 13), 1=-71(LC 12) Max Grav 7=1424(LC 20), 1=1424(LC 19)

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

TOP CHORD 1-2=-2184/408, 2-4=-2016/471, 4-6=-2016/471, 6-7=-2185/408

**BOT CHORD** 1-10=-227/1940, 8-10=-21/1274, 7-8=-228/1767

WEBS 4-8=-143/963, 6-8=-482/291, 4-10=-143/962, 2-10=-482/291

### 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) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 15-11-8, Exterior(2) 15-11-8 to 20-4-5, Interior(1) 20-4-5 to 31-9-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 1.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-0-11 oc purlins.

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

February 22,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

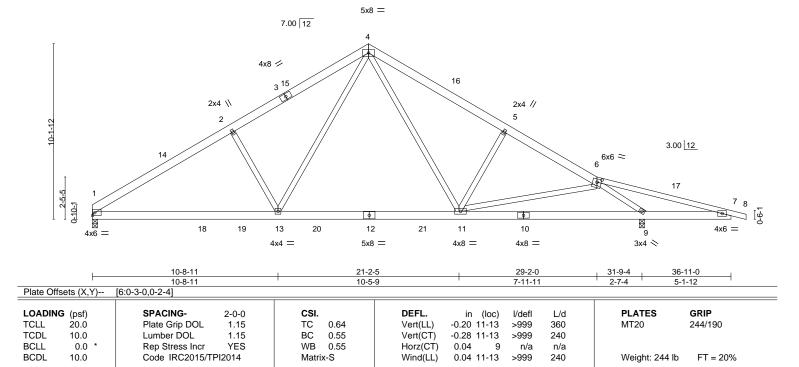


Lot 68 South Creek Job Truss Truss Type Qty 150346695 J0222-0873 A4 Common Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:17 2022 Page 1

Comtech, Inc. Fayetteville, NC - 28314,

ID:8y2t5WtWsT0klEnlWg1L7Jzkxox-vf?lAqQjjsB02ucaJiM699CGFxlKalk\_54WuEFziwUi 29-2-0 36-11-0 8-1-5 15-11-8 23-9-11 37-9-8 8-1-5 7-10-3 7-10-3 7-9-0

Scale = 1:66.6



**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SP No.1 \*Except\* 6-8: 2x4 SP No.1

**BOT CHORD** 2x6 SP No.1 **WEBS** 2x4 SP No.2

REACTIONS.

(size) 1=0-3-8, 9=0-3-8 Max Horz 1=-233(LC 10)

Max Uplift 1=-72(LC 12), 9=-132(LC 13) Max Grav 1=1382(LC 19), 9=1757(LC 1)

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

TOP CHORD 1-2=-2113/369, 2-4=-1944/432, 4-5=-1843/359, 5-6=-1955/302, 6-7=-952/978 **BOT CHORD** 1-13=-191/1880, 11-13=0/1202, 9-11=-47/1448, 7-9=-893/968

WEBS 4-11=-70/788, 5-11=-471/255, 4-13=-148/990, 6-9=-2509/976, 2-13=-479/291,

6-11=-248/342

### 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) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 15-11-8, Exterior(2) 15-11-8 to 20-4-5, Interior(1) 20-4-5 to 37-9-8 zone; cantilever right exposed ;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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=132.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-1-13 oc purlins.

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

6-0-0 oc bracing: 7-9.

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type Lot 68 South Creek Job Truss Qty 150346696 J0222-0873 Α5 ROOF SPECIAL 3 Job Reference (optional)

7-10-3

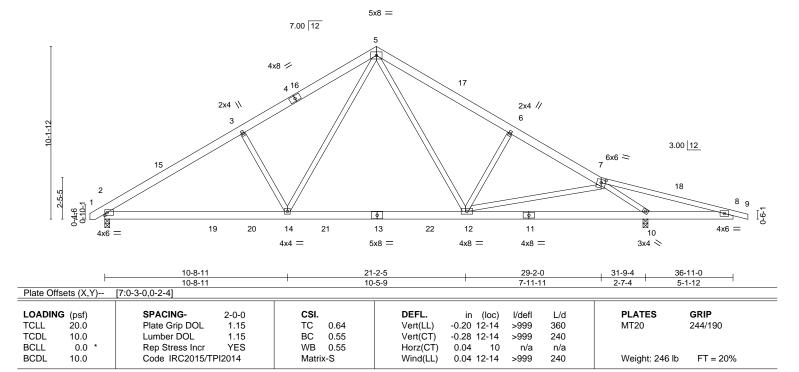
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:19 2022 Page 1 ID:8y2t5WtWsT0klEnIWg1L7Jzkxox-r273bVS\_FTRkHCmyQ7OaEaHcllQp2CEGYO?\_I7ziwUg Comtech, Inc. Fayetteville, NC - 28314, 36-11-0 23-9-11 29-2-0 15-11-8

7-10-3

Scale = 1:67.7

37-9-8

7-9-0



**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SP No.1 \*Except\* 7-9: 2x4 SP No.1 2x6 SP No.1

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

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=-234(LC 10)

Max Uplift 2=-84(LC 12), 10=-132(LC 13)

Max Grav 2=1432(LC 19), 10=1756(LC 1)

8-1-5

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

TOP CHORD 2-3=-2110/361, 3-5=-1941/423, 5-6=-1842/356, 6-7=-1954/298, 7-8=-952/978

**BOT CHORD** 2-14=-179/1876, 12-14=0/1201, 10-12=-47/1448, 8-10=-893/968 WEBS 5-12=-70/788, 6-12=-471/255, 5-14=-147/986, 7-10=-2508/975, 3-14=-478/287,

7-12=-247/341

### 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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 15-11-8, Exterior(2) 15-11-8 to 20-4-5, Interior(1) 20-4-5 to 37-9-8 zone; cantilever right exposed ;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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 10=132
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-2-3 oc purlins.

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

6-0-0 oc bracing: 8-10.

February 22,2022

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



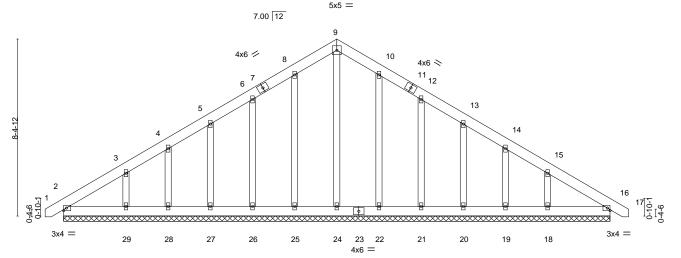
Lot 68 South Creek Job Truss Truss Type Qty 150346697 J0222-0873 B1GE GABLE Job Reference (optional)

Comtech, Inc.

Fayetteville, NC - 28314,

12-11-8 12-11-8 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:21 2022 Page 1 ID:8y2t5WtWsT0kIEnlWg1L7Jzkxox-nQFp0BTEn4hSWVvLYXQ2J?N6nZERWC8Z0iU5N0ziwUe 25-11-0 26-9-8 0-10-8

Scale = 1:54 6



25-11-0 LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSI. DEFL. L/d in (loc) I/defl TCLL 20.0 Plate Grip DOL TC Vert(LL) 120 244/190 1.15 0.03 0.00 16 n/r MT20 TCDL 10.0 BC 0.02 Vert(CT) 0.00 120 Lumber DOL 1.15 16 n/r WB Horz(CT) **BCLL** 0.0 Rep Stress Incr YES 0.14 0.00 16 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 207 lb FT = 20%

25-11-0

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 **OTHERS** 

**BRACING-**

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

All bearings 25-11-0.

REACTIONS. (lb) - Max Horz 2=-239(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 22, 21, 20, 19 except 29=-139(LC 12),

18=-133(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 24, 25, 26, 27, 28, 22, 21, 20, 19, 16 except 29=265(LC

19), 18=259(LC 20)

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

- 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) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 25, 26, 27, 28, 22, 21, 20, 19 except (jt=lb) 29=139, 18=133.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 22,2022



Lot 68 South Creek Job Truss Truss Type Qty 150346698 J0222-0873 B2 COMMON 8 Job Reference (optional)

12-11-8

4-2-13

8-8-11

2-1-6

Comtech, Inc. Fayetteville, NC - 28314,

-0-10-8 0-10-8

6-7-5

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:25 2022 Page 1 ID:8y2t5WtWsT0klEnlWg1L7Jzkxox-gBUKsZWlrJBu?7D6nNV?UrXiuATiSxh9xKSJWnziwUa 25-11-0 17-2-5 26-9-8 0-10-8 19-3-11 2-1-6 4-2-13

8-8-11

Structural wood sheathing directly applied or 5-2-4 oc purlins.

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

1 Row at midpt

Scale = 1:53.8

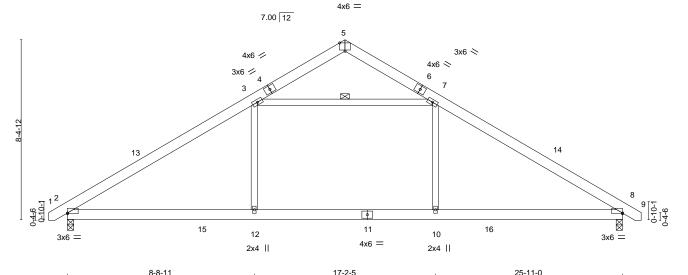


Plate Offsets (X,Y)-[2:Edge,0-0-5], [5:0-3-0,Edge], [8:0-0-0,0-0-5] LOADING (psf) SPACING-CSI. DEFL. I /d **PLATES** GRIP 2-0-0 in (loc) I/defl TC **TCLL** 20.0 Plate Grip DOL 1.15 0.41 Vert(LL) -0.208-10 >999 360 244/190 MT20 BC 240 TCDL 10.0 Lumber DOL 1.15 0.52 Vert(CT) -0.258-10 >999 **BCLL** 0.0 Rep Stress Incr YES WB 0.49 Horz(CT) 0.03 8 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.17 2-12 >999 240 Weight: 163 lb FT = 20%

8-5-9

**BRACING-**

**WEBS** 

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

(size) 8=0-3-8, 2=0-3-8

Max Horz 2=-191(LC 10)

Max Uplift 8=-69(LC 13), 2=-69(LC 12) Max Grav 8=1309(LC 20), 2=1309(LC 19)

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

8-8-11

TOP CHORD 2-3=-1965/301, 7-8=-1965/301

**BOT CHORD** 2-12=-118/1597, 10-12=-118/1597, 8-10=-118/1597

WEBS 3-12=0/600, 7-10=0/600, 3-7=-1457/372

### 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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 12-11-8, Exterior(2) 12-11-8 to 17-2-5, Interior(1) 17-2-5 to 26-7-13 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 22,2022



Truss Type Lot 68 South Creek Job Truss Qty 150346699 J0222-0873 ВЗ COMMON Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:26 2022 Page 1 Comtech, Inc. Fayetteville, NC - 28314,  $ID:8y2t5WtWsT0klEnlWg1L7Jzkxox-8O2i3vXNcdJkdGolL50E034vqatCBT?IA\_Cs2DziwUZ$ 25-11-0 26-9-8 0-10-8 19-3-11 6-7-5 12-11-8 6-4-3 Scale = 1:52 1 5x5 = 7.00 12 4x6 // 4x6 > 5 2x4 \\ 2x4 // 2 15 0-10-1 Ø 11 16 10 17 9 3x4 = 3x4 = 3x4 =4x6 =3x4 = 8-8-11 17-2-5 25-11-0 8-8-11 8-5-9 8-8-11 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d in (loc) I/defl

TCLL 20.0 Plate Grip DOL TC 1.15 0.27 TCDL 10.0 BC 0.31 Lumber DOL 1.15 WB **BCLL** 0.0 Rep Stress Incr YES 0.16 **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S

Vert(LL) 360 -0.09 9-11 >999 Vert(CT) -0.13>999 240 9-11 Horz(CT) 0.03 n/a n/a Wind(LL) 0.02 11 >999 240

**PLATES** GRIP 244/190 MT20

Weight: 172 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 **WEBS** 

**BRACING-**

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

REACTIONS. (size) 7=0-3-8, 1=0-3-8

Max Horz 1=-191(LC 10)

Max Uplift 7=-69(LC 13), 1=-57(LC 12) Max Grav 7=1101(LC 20), 1=1050(LC 19)

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

TOP CHORD 1-2=-1587/337, 2-4=-1450/390, 4-6=-1448/379, 6-7=-1602/327

**BOT CHORD** 1-11=-182/1409, 9-11=-15/933, 7-9=-181/1261

**WEBS** 4-9=-116/667, 6-9=-374/234, 4-11=-118/671, 2-11=-375/238

### 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) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 12-11-8, Exterior(2) 12-11-8 to 17-4-5, Interior(1) 17-4-5 to 26-7-13 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 1.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 22,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type Lot 68 South Creek Job Truss Qty 150346700 J0222-0873 C1GE GABLE Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:27 2022 Page 1 ID:8y2t5WtWsT0kIEnIWg1L7Jzkxox-cac4HFY?NwRbEQNVuoXTZGd7XzH2wxRSOexPagziwUY Comtech, Inc. Fayetteville, NC - 28314, -0-10-8 11-11-0 12-9-8 5-11-8 0-10-8 5-11-8 0-10-8 Scale = 1:27.2 5x5 = 5 7.00 12 6 3 8 0-10-1

11-11-0 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. L/d in (loc) I/defl TCLL 20.0 Plate Grip DOL TC Vert(LL) 120 244/190 1.15 0.02 0.00 8 n/r MT20 TCDL 10.0 BC 0.01 Vert(CT) 0.00 120 Lumber DOL 1.15 8 n/r WB 0.02 Horz(CT) **BCLL** 0.0 Rep Stress Incr YES 0.00 8 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 80 lb FT = 20%

11-11-0

13

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 **OTHERS** 

**BRACING-**

TOP CHORD **BOT CHORD**  11

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

3x4 =

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

10

REACTIONS. All bearings 11-11-0.

(lb) - Max Horz 2=-117(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 11, 10 except 14=-100(LC 12)

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

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

### NOTES-

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

3x4 =

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 11, 10 except (jt=lb) 14=100.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 22,2022



Truss Type Lot 68 South Creek Job Truss Qty 150346701 J0222-0873 C2 COMMON 5 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:29 2022 Page 1 ID:8y2t5WtWsT0kIEnIWg1L7Jzkxox-YzkrhwaFuYhJUkXt0DZxehiRSnw\_OqzlsyQWfYziwUW Comtech, Inc. Fayetteville, NC - 28314, 12-9-8 -0-10-8 0-10-8 11-11-0 5-11-8 0-10-8 5-11-8 Scale = 1:27.3 5x5 =7.00 12 10 6 2x4 || 4x4 = 4x4 = 5-11-8 11-11-0

SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. I/defl L/d in (loc) TCLL 20.0 Plate Grip DOL TC Vert(LL) >999 240 244/190 1.15 0.18 0.02 2-6 MT20 TCDL 10.0 1.15 BC 0.24 Vert(CT) -0.02>999 240 Lumber DOL 4-6 WB 0.08 Horz(CT) **BCLL** 0.0 Rep Stress Incr YES 0.00 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 71 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

5-11-8

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

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

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 **WEBS** 

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

Max Horz 2=-94(LC 10)

Max Uplift 2=-77(LC 9), 4=-77(LC 8) Max Grav 2=518(LC 1), 4=518(LC 1)

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

TOP CHORD 2-3=-575/540, 3-4=-575/540 **BOT CHORD** 2-6=-348/403, 4-6=-348/403

**WEBS** 3-6=-362/279

### 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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 5-11-8, Exterior(2) 5-11-8 to 10-4-5, Interior(1) 10-4-5 to 12-7-13 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

5-11-8

- 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type Lot 68 South Creek Job Truss Qty 150346702 J0222-0873 D1GE GABLE Job Reference (optional) Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:33 2022 Page 1 ID:8y2t5WtWsT0klEnlWg1L7Jzkxox-RkzMXldmymClyLqfF3etoXs9\_OKRKftKnaOkoJziwUS 7-11-0 -0-10-8 3-11-12 0-10-8 3-11-12 Scale = 1:21.3 4x6 = 4 7.00 12 2x4 || 5 2x4 II 3 0-4-6, 0-10-5 9 8 3x4 = 3x4 =2x4 || 2x4 || 2x4 ||

LOADING TCLL TCDL	G (psf) 20.0 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15	CSI. TC 0.02 BC 0.01	DEFL. Vert(LL) Vert(CT)	in -0.00 0.00	(loc) 1	l/defl n/r n/r	L/d 120 120	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.02 Matrix-P	Horz(CT)	0.00	6	n/a	n/a	Weight: 50 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 **OTHERS** 

**BRACING-**

TOP CHORD **BOT CHORD** 

7-11-0 7-11-0

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

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

REACTIONS. All bearings 7-11-0.

(lb) - Max Horz 2=82(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 6, 2 except 9=-101(LC 12), 7=-104(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 6, 2, 8, 9, 7

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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 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 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2 except (jt=lb) 9=101, 7=104.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 22,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type Lot 68 South Creek Truss Qty 150346703 J0222-0873 D2 COMMON Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:36 2022 Page 1 ID:8y2t5WtWsT0kIEnIWg1L7Jzkxox-rJfUAJfeFhaKppZDwBBaQAUf9cL?X0LnTYdOPeziwUP Comtech, Inc. Fayetteville, NC - 28314, -0-10-8 7-11-0 3-11-12 0-10-8 3-11-12 Scale = 1.21.04x6 = 3 7.00 12 0-4-6, 0-10-5 5 2x4 || 3x4 = 3x4 = 3-11-12 7-11-0 3-11-4 3-11-12

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

**BRACING-**

TOP CHORD

**BOT CHORD** 

I/defl

>999

>999

n/a

5

4

5 >999

2-5

L/d

360

240

n/a

240

in (loc)

-0.00

-0.00

0.00

0.00

LUMBER-

TCLL

TCDL

**BCLL** 

**BCDL** 

LOADING (psf)

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 **WEBS** 

20.0

10.0

10.0

0.0

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

Max Horz 2=65(LC 11) Max Uplift 4=-16(LC 13), 2=-29(LC 12) Max Grav 4=304(LC 1), 2=361(LC 1)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-343/85, 3-4=-327/83

- 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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 3-11-12, Exterior(2) 3-11-12 to 7-9-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

0.09

0.08

0.04

TC

BC

WB

Matrix-P

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

2-0-0

1.15

1.15

YES

- 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



**PLATES** 

Weight: 47 lb

MT20

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

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

GRIP

244/190

FT = 20%



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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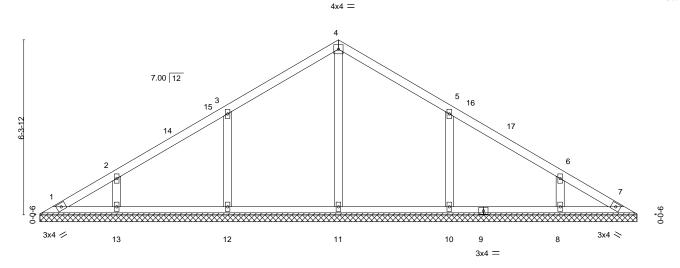
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Lot 68 South Creek Job Truss Truss Type Qty 150346704 J0222-0873 VA1 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:38 2022 Page 1 Comtech, Inc. Fayetteville, NC - 28314,

 $ID:8y2t5WtWsT0klEnIWg1L7Jzkxox-ninFa?hvnJq137jc2cE2Vba\_bP?t?vj3wr6VTXziwUN$ 10-9-14 21-7-12 10-9-14 10-9-14

Scale = 1:41.6



0-0-10 0-0-10 21-7-2 LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSI. DEFL. in (loc) I/defl L/d TCLL 20.0 Plate Grip DOL TC Vert(LL) 244/190 1.15 0.15 n/a n/a 999 MT20 TCDL 10.0 BC 0.19 Vert(CT) 999 Lumber DOL 1.15 n/a n/a WB Horz(CT) **BCLL** 0.0 Rep Stress Incr YES 0.11 0.00 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 89 lb FT = 20%

21-7-12

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.2 **OTHERS** 

REACTIONS. All bearings 21-6-8.

(lb) - Max Horz 1=144(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 13, 10, 8

All reactions 250 lb or less at joint(s) 1, 7 except 11=454(LC 19), 12=455(LC 19), 13=279(LC 19), Max Grav

10=455(LC 20), 8=278(LC 20)

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

WEBS 3-12=-301/190, 5-10=-301/190

- 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) 0-6-12 to 4-11-9, Interior(1) 4-11-9 to 10-9-14, Exterior(2) 10-9-14 to 15-2-11, Interior(1) 15-2-11 to 21-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 13, 10, 8.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 22,2022



Lot 68 South Creek Job Truss Truss Type Qty 150346705 J0222-0873 VA2 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:43 2022 Page 1 ID:8y2t5WtWsT0klEnIWg1L7Jzkxox-8fa8ejk1brSK9ubaq9pDCeHqqQkGgAeo47pG9kziwUI Comtech, Inc. Fayetteville, NC - 28314, 8-9-14 17-7-12 8-9-14 Scale = 1:34 7 4x4 = 3 7.00 12 2x4 || 2x4 || 2 11 10 · Š 3x4 / 3x4 < 9 8 7 6 2x4 || 2x4 || 3x4 = 2x4 | 17-7-12 0-0-10 17-7-2 17-7-2 LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSI. DEFL. L/d in (loc) I/defI TCLL 20.0 Plate Grip DOL Vert(LL) 244/190 1.15 TC 0.19 n/a n/a 999 MT20 TCDL 10.0 BC Vert(CT) 999 Lumber DOL 1.15 0.11 n/a n/a WB 0.07 Horz(CT) **BCLL** 0.0 Rep Stress Incr YES 0.00 5 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 68 lb FT = 20%

LUMBER-

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

**BRACING-**

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

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

REACTIONS. All bearings 17-6-8.

(lb) - Max Horz 1=116(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-102(LC 12), 6=-101(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 8 except 9=419(LC 19), 6=419(LC 20)

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

**WEBS** 2-9=-334/204, 4-6=-334/204

### 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) 0-6-12 to 4-9-14, Interior(1) 4-9-14 to 8-9-14, Exterior(2) 8-9-14 to 13-2-11, Interior(1) 13-2-11 to 17-1-0 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 except (jt=lb) 9=102, 6=101.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





J0222-0873		VA3	Valley	1					150	346706		
Comtech, Inc,	Envetter	/ille, NC - 28314,			9 420 6 411		ference (option		1:52:46 2022 Po	ao 1		
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	OX-1	2x4		2x4			2x4	OA4 C				
				13-7-2					13-7-12			
	H			13-7-2					0-0-10			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0	*	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr  2-0-0 1.15 1.15 2.15 2.15 2.15 2.15 2.15 2.15	TC 0.13 BC 0.09	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190			
BCDL 10.0		Code IRC2015/TPI2014		11012(01)	0.00 5	11/d	11/4	Weight: 50 lb	FT = 20%			

LUMBER-

Job

Truss

Truss Type

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

**BRACING-**

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

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

Lot 68 South Creek

REACTIONS. All bearings 13-6-8.

(lb) - Max Horz 1=-88(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=274(LC 1), 8=320(LC 19), 6=320(LC 20)

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

**WEBS** 2-8=-267/180, 4-6=-267/180

### 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) 0-6-12 to 4-11-9, Interior(1) 4-11-9 to 6-9-14, Exterior(2) 6-9-14 to 11-2-11, Interior(1) 11-2-11 to 13-1-0 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, 8, 6.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 22,2022



Lot 68 South Creek 150346707 J0222-0873 VA4 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:46 2022 Page 1 ID:8y2t5WtWsT0kIEnIWg1L7Jzkxox-YEGGGknwumqv0LK8WHNwqHvL5ekatXxFm52wl3ziwUF Comtech, Inc. Fayetteville, NC - 28314, 4-9-14 9-7-12 4-9-14 Scale = 1:19.5 4x4 = 2 7.00 12 9-0-0 9-0-0 4 3x4 🥢 3x4 <> 2x4 || 0-0<sub>-</sub>10 0-0-10 9-7-12 9-7-2 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. L/d in (loc) I/defI

Vert(LL)

Vert(CT)

Horz(CT)

**BRACING-**

TOP CHORD

**BOT CHORD** 

n/a

n/a

0.00

999

999

n/a

n/a

n/a

n/a

3

MT20

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

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

Weight: 32 lb

244/190

FT = 20%

Qty

LUMBER-

TCLL

TCDL

**BCLL** 

**BCDL** 

Job

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

20.0

10.0

10.0

0.0

REACTIONS.

(size) 1=9-6-8, 3=9-6-8, 4=9-6-8

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

Max Horz 1=-60(LC 8)

Truss

Max Uplift 1=-21(LC 12), 3=-27(LC 13)

Max Grav 1=163(LC 1), 3=163(LC 1), 4=357(LC 1)

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 7-10; 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

TC

BC

WB

Matrix-S

0.19

0.13

0.03

- 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.

1.15

1.15

YES

- 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.

Truss Type

7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





150346708 J0222-0873 VA5 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:48 2022 Page 1 ID:8y2t5WtWsT0klEnIWg1L7Jzkxox-VdN1hQoAQN5dGfUXdiPOvi\_iTRSXKRIYDPX1qyziwUD Comtech, Inc. Fayetteville, NC - 28314, 5-7-12 2-9-14 2-9-14 Scale = 1:13.1 4x4 = 2 7.00 12 3 9-0-0 9-0-0 3x4 🖊 2x4 || 3x4 ≥ 0-0-10 0-0-10 5-7-12 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. L/d in (loc) I/defI Plate Grip DOL TCLL 20.0 TC Vert(LL) 244/190 1.15 0.07 n/a n/a 999 MT20 TCDL 10.0 1.15 BC 0.04 Vert(CT) 999 Lumber DOL n/a n/a WB 0.01 Horz(CT) **BCLL** 0.0 Rep Stress Incr YES 0.00 3 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 18 lb FT = 20%**BRACING-**

TOP CHORD

**BOT CHORD** 

Qty

Lot 68 South Creek

LUMBER-

Job

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

REACTIONS. (size) 1=5-6-8, 3=5-6-8, 4=5-6-8

Max Horz 1=32(LC 11)

Truss

Max Uplift 1=-15(LC 12), 3=-18(LC 13)

Max Grav 1=95(LC 1), 3=95(LC 1), 4=171(LC 1)

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 7-10; 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.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Truss Type



Structural wood sheathing directly applied or 5-7-12 oc purlins.

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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Type Lot 68 South Creek Job Truss Qty 150346709 J0222-0873 VB1 Valley Job Reference (optional)

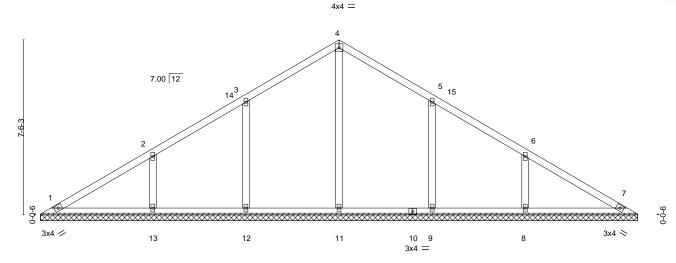
Comtech, Inc.

Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:49 2022 Page 1 ID:8y2t5WtWsT0klEnIWg1L7Jzkxox-zpxPumpoBhDUtp2jBQwdSvXsgrmN3sYhS3GaMOziwUC

12-10-10 25-9-4 12-10-10 12-10-10

Scale = 1:49.5



0-0-10		25-8-10		
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI.         DEFL.           TC 0.16         Vert(LL           BC 0.19         Vert(C'	_) n/a - n/a 999	PLATES         GRIP           MT20         244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.17 Horz(C Matrix-S	T) 0.00 7 n/a n/a	Weight: 112 lb FT = 20%

25-9-4

LUMBER-

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

2x4 SP No.2 **OTHERS** 

**BRACING-**

TOP CHORD **BOT CHORD** 

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

REACTIONS. All bearings 25-8-0.

0-0-10

(lb) - Max Horz 1=-173(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 13, 9, 8

All reactions 250 lb or less at joint(s) 1, 7 except 11=467(LC 19), 12=425(LC 19), 13=390(LC 19), Max Grav

9=425(LC 20), 8=390(LC 20)

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

WEBS 3-12=-280/179, 2-13=-318/195, 5-9=-280/179, 6-8=-318/195

- 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) 0-6-12 to 4-10-10, Interior(1) 4-10-10 to 12-10-10, Exterior(2) 12-10-10 to 17-3-7, Interior(1) 17-3-7 to 25-2-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 13, 9, 8.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 22,2022



Lot 68 South Creek Job Truss Truss Type Qty 150346710 J0222-0873 VB2 Valley Job Reference (optional)

Comtech, Inc.

Fayetteville, NC - 28314,

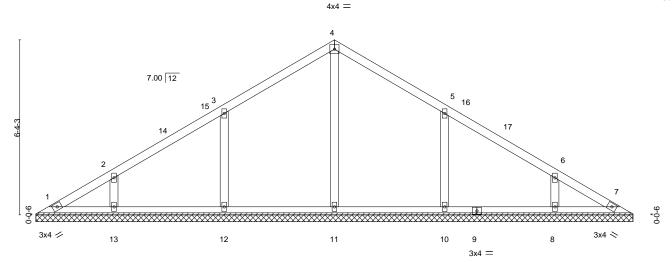
10-10-10

10-10-10

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:52 2022 Page 1 ID:8y2t5WtWsT0klEnIWg1L7Jzkxox-NOdXWorhUcb2kGnIsYUK4Y9N32n9GEA781VEzjziwU9

21-9-4 10-10-10

Scale = 1:41.8



0-0-10 0-0-10 21-8-10 LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSI. DEFL. L/d in (loc) I/defI TCLL 20.0 Plate Grip DOL TC Vert(LL) 244/190 1.15 0.15 n/a n/a 999 MT20 TCDL 10.0 BC 0.19 Vert(CT) 999 Lumber DOL 1.15 n/a n/a WB Horz(CT) **BCLL** 0.0 Rep Stress Incr YES 0.11 0.00 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 90 lb FT = 20%

21-9-4

LUMBER-

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

**BRACING-**TOP CHORD

**BOT CHORD** 

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

REACTIONS. All bearings 21-8-0.

(lb) - Max Horz 1=145(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 13, 10, 8

All reactions 250 lb or less at joint(s) 1, 7 except 11=454(LC 19), 12=455(LC 19), 13=281(LC 19), Max Grav

10=454(LC 20), 8=281(LC 20)

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

WEBS 3-12=-301/190, 5-10=-301/190

- 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) 0-6-12 to 4-11-9, Interior(1) 4-11-9 to 10-10-10, Exterior(2) 10-10-10 to 15-3-7, Interior(1) 15-3-7 to 21-2-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 13, 10, 8.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 22,2022



Lot 68 South Creek Job Truss Truss Type Qty 150346711 J0222-0873 VB3 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:54 2022 Page 1 Comtech, Inc. Fayetteville, NC - 28314,  $ID:8y2t5WtWsT0klEn\ddot{l}Wg1L7Jzkxox-JnllxTtx0Drm\_axh\_zWo9zEj?sUpk8MQcL\_L1bziwU7$ 8-10-10 17-9-4 8-10-10 8-10-10 Scale = 1:35.04x4 = 3 7.00 12 2x4 || 2x4 || 4 2 10 3x4 / 3x4 < 9 8 7 6 2x4 || 2x4 || 3x4 =2x4 || 17<sub>-</sub>9-4 0-0-10 17-8-10 17-8-10 LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSI. DEFL. L/d in (loc) I/defI TCLL 20.0 Plate Grip DOL Vert(LL) 244/190 1.15 TC 0.19 n/a n/a 999 MT20 TCDL 10.0 BC Vert(CT) 999 Lumber DOL 1.15 0.11 n/a n/a WB 0.07 Horz(CT) **BCLL** 0.0 Rep Stress Incr YES 0.00 5 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 69 lb FT = 20%

LUMBER-

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

**BRACING-**

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

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

REACTIONS. All bearings 17-8-0.

(lb) - Max Horz 1=-117(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-102(LC 12), 6=-102(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 8 except 9=423(LC 19), 6=423(LC 20)

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

**WEBS** 2-9=-337/206, 4-6=-337/206

### 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) 0-6-12 to 4-10-10, Interior(1) 4-10-10 to 8-10-10, Exterior(2) 8-10-10 to 13-3-7, Interior(1) 13-3-7 to 17-2-8 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 except (jt=lb) 9=102, 6=102.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 22,2022



Truss Type Lot 68 South Creek Job Truss Qty 150346712 J0222-0873 VB4 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:55 2022 Page 1 Comtech, Inc. Fayetteville, NC - 28314, ID:8y2t5WtWsT0klEnIWg1L7Jzkxox-nzlg9puZnXzdbkWtXg11iAnvlGqPTcyaq?jua2ziwU66-10-10 13-9-4 6-10-10 Scale = 1:26.4 4x4 = 3 7.00 12 11 10 2x4 || 2x4 II 4 2 12 8 6 3x4 <> 3x4 / 2x4 || 2x4 || 2x4 || 0-0<sub>-</sub>10 0-0-10 13-9-4 13-8-10 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. L/d in (loc) I/defI TCLL 20.0 Plate Grip DOL TC Vert(LL) 999 244/190 1.15 0.13 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.09 Vert(CT) 999 n/a n/a WB 0.05 Horz(CT) **BCLL** 0.0 Rep Stress Incr YES 0.00 5 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 51 lb FT = 20%

LUMBER-

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

**BRACING-**

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

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

REACTIONS. All bearings 13-8-0.

(lb) - Max Horz 1=-89(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=274(LC 1), 8=322(LC 19), 6=322(LC 20)

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

**WEBS** 2-8=-268/180, 4-6=-268/180

### 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) 0-6-12 to 4-11-9, Interior(1) 4-11-9 to 6-10-10, Exterior(2) 6-10-10 to 11-3-7, Interior(1) 11-3-7 to 13-2-8 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, 8, 6.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





J0222-0873 VB5 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:52:58 2022 Page 1 ID:8y2t5WtWsT0kIEnIWg1L7Jzkxox-CY\_onrwR3SLCSBFSDpbkJpPOzTqLgzu0WzyYANziwU3 Comtech, Inc. Fayetteville, NC - 28314, 4-10-10 9-9-4 4-10-10 4-10-10 Scale = 1:19.9 4x4 = 7.00 12 2-10-3 9-0-0 3x4 > 3x4 / 2x4 || 0-0<sub>-</sub>10 0-0-10 9-9-4 9-8-10 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. L/d in (loc) I/defI TCLL 20.0 Plate Grip DOL TC Vert(LL) 999 MT20 244/190 1.15 0.19 n/a n/a TCDL 10.0 1.15 BC 0.14 Vert(CT) 999 Lumber DOL n/a n/a WB 0.04 Horz(CT) 3 **BCLL** 0.0 Rep Stress Incr YES 0.00 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 33 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

Qty

Lot 68 South Creek

150346713

LUMBER-

Job

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

REACTIONS. (size) 1=9-8-0, 3=9-8-0, 4=9-8-0

Max Horz 1=-61(LC 8)

Max Uplift 1=-21(LC 12), 3=-27(LC 13)

Truss

Max Grav 1=165(LC 1), 3=165(LC 1), 4=362(LC 1)

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 7-10; 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.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Truss Type



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

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



Job Truss Type Lot 68 South Creek Truss Qty 150346714 J0222-0873 VB6 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:53:02 2022 Page 1 ID:8y2t5WtWsT0klEnIWg1L7Jzkxox-4JDJdCzy7grexpYDSefgUeZ5s4EncnCbRawmJ8ziwU? Comtech, Inc. Fayetteville, NC - 28314, 2-10-10 5-9-4 2-10-10 2-10-10 Scale = 1:13.5 4x4 = 2 7.00 12 3 9-0-0 9-0-0 2x4 || 3x4 / 3x4 > 5-9-4 5-8-10 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. L/d in (loc) I/defl TCLL 20.0 Plate Grip DOL TC Vert(LL) 244/190 1.15 0.07 n/a n/a 999 MT20 TCDL 10.0 1.15 BC 0.04 Vert(CT) 999 Lumber DOL n/a n/a

Horz(CT)

**BRACING-**

TOP CHORD

**BOT CHORD** 

0.00

3

n/a

n/a

Structural wood sheathing directly applied or 5-9-4 oc purlins.

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

Weight: 18 lb

FT = 20%

LUMBER-

**BCLL** 

**BCDL** 

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

0.0

10.0

2x4 SP No.2 **OTHERS** 

REACTIONS. (size) 1=5-8-0, 3=5-8-0, 4=5-8-0

Max Horz 1=-33(LC 8)

Max Uplift 1=-16(LC 12), 3=-19(LC 13)

Rep Stress Incr

Code IRC2015/TPI2014

Max Grav 1=98(LC 1), 3=98(LC 1), 4=176(LC 1)

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 7-10; 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

WB

Matrix-P

0.01

- 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.

YES

- 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.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



150346715 J0222-0873 VC1 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 11:53:04 2022 Page 1 ID:8y2t5WtWsT0klEnlWg1L7Jzkxox-1iL42u?Cfl6LA6icZ3i8Z3fQQuuU4gNuvuPtN0ziwTz Comtech, Inc. Fayetteville, NC - 28314, 11-9-4 5-10-10 5-10-10 5-10-10 Scale = 1.23.04x4 = 3 10 7.00 12 2x4 | <sub>4</sub>2x4 || 3x4 🖊 3x4 ≥ 2x4 || 2x4 || 2x4 || 0-0<sub>-</sub>10 0-0-10 11-9-4 11-8-10 LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSI. DEFL. L/d in (loc) I/defl TCLL 20.0 Plate Grip DOL TC Vert(LL) MT20 244/190 1.15 0.13 n/a n/a 999 TCDL 10.0 Lumber DOL 1.15 BC 0.09 Vert(CT) 999 n/a n/a WB 0.04 Horz(CT) **BCLL** 0.0 Rep Stress Incr YES 0.00 5 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 42 lb FT = 20%

Qty

LUMBER-

Job

Truss

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

**BRACING-**

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

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

Lot 68 South Creek

REACTIONS. All bearings 11-8-0.

(lb) - Max Horz 1=-75(LC 8)

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 1), 8=313(LC 19), 6=313(LC 20)

Truss Type

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

**WEBS** 2-8=-271/193, 4-6=-271/193

### 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) 0-6-12 to 4-11-9, Interior(1) 4-11-9 to 5-10-10, Exterior(2) 5-10-10 to 10-3-7, Interior(1) 10-3-7 to 11-2-8 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, 5, 8, 6.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



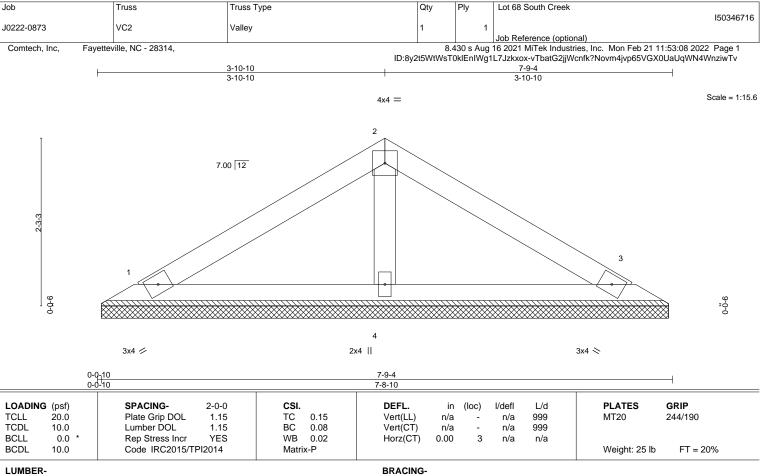
February 22,2022

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. (size) 1=7-8-0, 3=7-8-0, 4=7-8-0

Max Horz 1=-47(LC 10)

Max Uplift 1=-22(LC 12), 3=-27(LC 13)

Max Grav 1=140(LC 1), 3=140(LC 1), 4=252(LC 1)

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 7-10; 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.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

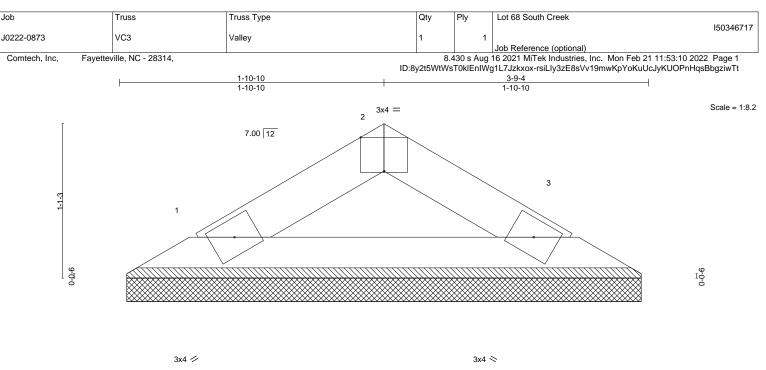


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3-9-4 3-8-10

Plate Offs	sets (X,Y)	[2:0-2-0,Edge]										
LOADING TCLL	20.Ó	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.02	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-P						Weight: 10 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

(size) 1=3-8-0, 3=3-8-0

Max Horz 1=-19(LC 8)

Max Uplift 1=-6(LC 12), 3=-6(LC 13) Max Grav 1=106(LC 1), 3=106(LC 1)

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 7-10; 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.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-9-4 oc purlins.

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



## Symbols

# PLATE LOCATION AND ORIENTATION



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



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

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

\* Plate location details available in MiTek 20/20 software or upon request.

### PLATE SIZE



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

# LATERAL BRACING LOCATION



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

### **BEARING**



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

## Industry Standards:

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

DSB-89: ANSI/TPI1:

# Numbering System



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# **General Safety Notes**

## Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4.

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

ტ. Ö

- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication

œ

- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- 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 project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.