

### **Trenco**

818 Soundside Rd Edenton, NC 27932

Re: J0221-1079 Lot 16 Forest Ridge

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: E15425640 thru E15425671

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



February 19,2021

Strzyzewski, Marvin

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

Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425640 J0221-1079 COMMON 3 A01 Job Reference (optional)

15-6-0

7-8-9

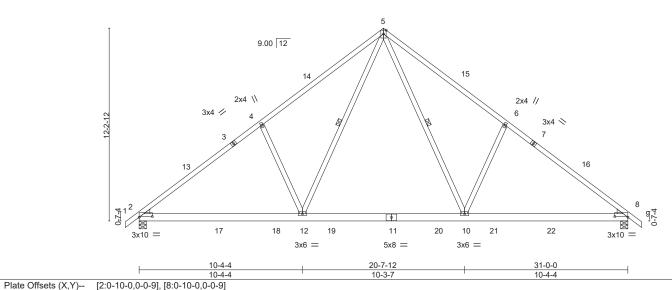
Fayetteville, NC - 28314, Comtech, Inc.

-0-10-8 0-10-8

7-9-7 7-9-7

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:14:43 2021 Page 1 ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-hP\_rV4eTWAU0nnHHLFuESt4gx9EPuj6gxUbgeCzjrwg 23-2-9 7-8-9 31-0-0 7-9-7

Scale = 1:73.1 4x6 ||



LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.79 Vert(LL) -0.21 10-12 >999 360 MT20 244/190 TCDL Lumber DOL вс Vert(CT) -0.27 10-12 10.0 1.15 0.61 >999 240 WB 0.36 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.04 8 n/a n/a

Wind(LL)

**BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

0.05 2-12 >999

1 Row at midpt

240

Structural wood sheathing directly applied.

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

5-10. 5-12

Matrix-S

LUMBER-

BCDL

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

10.0

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-5-8, 8=0-5-8

Max Horz 2=-294(LC 8) Max Uplift 2=-104(LC 10), 8=-104(LC 11)

Max Grav 2=1611(LC 17), 8=1611(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  $2\text{-}4\text{--}2092/410,\ 4\text{-}5\text{--}1955/539,\ 5\text{-}6\text{--}1956/539,\ 6\text{-}8\text{--}2092/410}$ TOP CHORD

Code IRC2015/TPI2014

**BOT CHORD** 2-12=-144/1744, 10-12=0/1147, 8-10=-144/1571

**WEBS** 5-10=-216/1084, 6-10=-494/321, 5-12=-216/1084, 4-12=-494/321

### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 11-1-3, Exterior(2) 11-1-3 to 19-10-13, Interior(1) 19-10-13 to 27-5-11, Exterior(2) 27-5-11 to 31-10-8 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 40.0psf 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 104 lb uplift at joint 2 and 104 lb uplift at



Weight: 191 lb

FT = 20%

February 19,2021





Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425641 J0221-1079 FINK 2 A01-P Job Reference (optional)

5x5 =

15-6-0

7-5-9

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-0<sub>-</sub>10<sub>-</sub>8 0-10-8

8-0-7 8-0-7

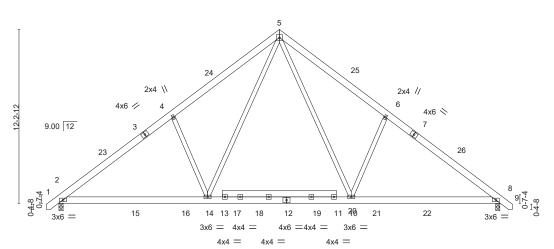
8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:14:45 2021 Page 1 ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-dn6bwmgj2nkk04RgSgwiXI98?zwZMcyzOn4ni5zjrwe 22-11-9 31-0-0 31-10-8 0-10-8

8-0-7

Scale = 1:81.0

Structural wood sheathing directly applied or 5-2-14 oc purlins.

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



10-5-6	1 <sub>1</sub> 1-6-0	15-6-0	19-6-0	20-6-10	31-0-0	
10-5-6	1-0-10	4-0-0	4-0-0	1-0-10	10-5-6	1

BRACING-TOP CHORD

BOT CHORD

LOADING (psf) SPACING-2-1-8 CSI. DEFL. in (loc) I/defl L/d PLATES GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.31 Vert(LL) -0.08 2-14 >999 360 MT20 244/190 TCDL Lumber DOL 1.15 ВС 0.57 Vert(CT) -0.17 2-14 >999 240 WB **BCLL** 0.0 Rep Stress Incr NO 0.40 Horz(CT) 0.04 8 n/a n/a 2-14 BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.04 >999 240 Weight: 243 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 2x6 SP No.1 BOT CHORD 2x4 SP No.2 \*Except\* WFBS

11-13: 2x6 SP No.1

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

Max Horz 2=310(LC 9)

Max Uplift 8=-9(LC 11), 2=-9(LC 10) Max Grav 8=1570(LC 18), 2=1570(LC 17)

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

2-4=-2046/272, 4-5=-1942/420, 5-6=-1942/420, 6-8=-2046/272 TOP CHORD

**BOT CHORD** 2-14=-32/1754, 10-14=0/1142, 8-10=-31/1573

WFBS 4-14=-566/364, 6-10=-566/364, 5-10=-137/1075, 5-14=-137/1074

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 11-1-3, Exterior(2) 11-1-3 to 19-10-13, Interior(1) 19-10-13 to 27-4-2, Exterior(2) 27-4-2 to 31-8-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 15-6-0 from left end, supported at two points, 5-0-0 apart.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 8 and 9 lb uplift at joint 2.



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Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425642 J0221-1079 COMMON 3 A02 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:14:46 2021 Page 1 Comtech, Inc. ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-5\_gz86gLp5sbeE0s0OSx4WiCDMGP54T7dRpKEXzjrwd -0-10-8 0-10-8 7-9-7 7-9-7 15-6-0 7-8-9 23-2-9 7-8-9 31-0-0 7-9-7 Scale = 1:73.1 4x6 || 5 9.00 12 2x4 \\ 2x4 // 3x4 / 6 3x4 14-0 10 9 16 17 11 18 19 20 21 3x6 = 4x4 / 4x6 = 3x6 =3x6 = 10-4-4 20-7-12 31-0-0 10-4-4 10-3-7 10-4-4 Plate Offsets (X,Y)--[2:0-1-8,0-2-0], [8:0-6-0,0-0-5] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.72 Vert(LL) -0.15 9-11 >999 360 MT20 244/190

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

**BOT CHORD** 

WFBS

-0.21

0.04

0.05 2-11

9-11

8

1 Row at midpt

>999

>999

n/a

240

n/a

240

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

Structural wood sheathing directly applied or 2-2-0 oc purlins.

5-9. 5-11

Weight: 188 lb

FT = 20%

LUMBER-

REACTIONS.

TCDL

**BCLL** 

BCDL

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

10.0

0.0

10.0

2x4 SP No 2 WFBS

> 8=Mechanical, 2=0-5-8 (size) Max Horz 2=291(LC 7)

Max Uplift 8=-90(LC 11), 2=-104(LC 10) Max Grav 8=1448(LC 18), 2=1514(LC 17)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

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

TOP CHORD 2-4=-1951/417, 4-5=-1816/546, 5-6=-1839/557, 6-8=-1970/423

**BOT CHORD** 2-11=-176/1628. 9-11=0/1069. 8-9=-193/1481

WFBS 5-9=-235/1023, 6-9=-526/346, 5-11=-217/983, 4-11=-494/322

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 11-1-3, Exterior(2) 11-1-3 to 19-10-13, Interior(1) 19-10-13 to 26-6-7, Exterior(2) 26-6-7 to 30-11-4 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.

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, with BCDL = 10.0psf.

0.53

0.38

BC

WB

Matrix-S

- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 8 and 104 lb uplift at joint 2.





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

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425643 J0221-1079 COMMON 6 A02-P Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:14:49 2021 Page 1 ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-VZM6m7jE50EAVilRhW?ei8Kl2aE7IQwZJP2\_rszjrwa

31-0-0 7-9-7

Scale = 1:76.1 4x6 ||

Structural wood sheathing directly applied or 5-0-7 oc purlins.

5-9

Rigid ceiling directly applied or 9-3-11 oc bracing.

1 Row at midpt

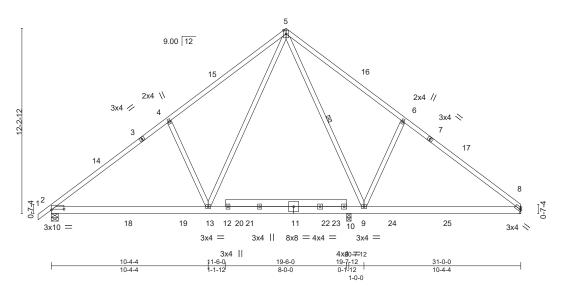


Plate Offsets (X,Y)-	[2:0-10-0,0-0-9], [11:0-0-0,0-2-12]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.09 8-9 >999 360 MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(CT) -0.20 8-9 >665 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.01 8 n/a n/a
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 2-13 >999 240 Weight: 207 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

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

10-12: 2x6 SP No.1

REACTIONS. (size) 8=Mechanical, 2=0-5-8, 10=0-3-8

Max Horz 2=291(LC 7)

Max Uplift 8=-80(LC 11), 2=-57(LC 10)

Max Grav 8=675(LC 18), 2=1061(LC 17), 10=1204(LC 18)

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

TOP CHORD 2-4=-1233/246, 4-5=-1104/376, 5-6=-633/382, 6-8=-728/247 **BOT CHORD** 2-13=-93/1067, 10-13=-35/537, 9-10=-25/537, 8-9=-54/492 **WEBS** 5-9=-382/21, 6-9=-552/351, 5-13=-111/885, 4-13=-512/329

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 11-1-3, Exterior(2) 11-1-3 to 19-10-13, Interior(1) 19-10-13 to 26-6-7, Exterior(2) 26-6-7 to 30-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 15-6-0 from left end, supported at two points, 5-0-0 apart.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 8 and 57 lb uplift at joint 2.



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

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425644 J0221-1079 COMMON A03 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:14:49 2021 Page 1 Comtech, Inc.

ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-VZM6m7jE50EAVilRhW?ei8KjJaHilMQZJP2\_rszjrwa -0-10-8 0-10-8 7-11-1 7-11-1 15-6-0 7-6-15 23-0-15 7-6-15 31-0-0 7-11-1

> Scale = 1:73.1 4x6 ||

> > Structural wood sheathing directly applied or 2-2-0 oc purlins.

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

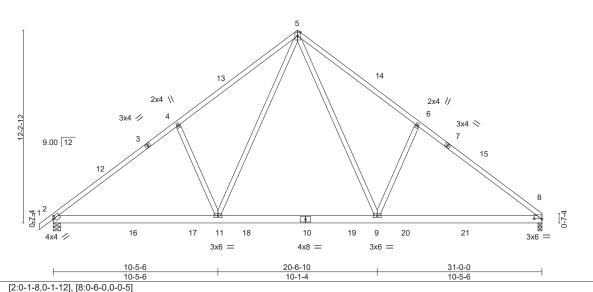


Plate Offsets (X,Y)--LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.73 Vert(LL) -0.19 9-11 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.62 Vert(CT) -0.24 8-9 >999 240 WB 0.69 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.04 8 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.06 2-11 >999 240 Weight: 188 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. 8=0-3-0, 2=0-5-8 (size)

Max Horz 2=291(LC 9)

Max Uplift 8=-89(LC 11), 2=-104(LC 10) Max Grav 8=1557(LC 18), 2=1622(LC 17)

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

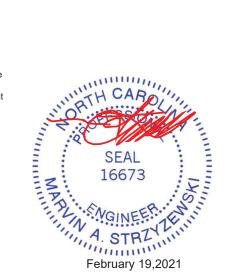
2-4=-2098/415, 4-5=-1963/547, 5-6=-1980/558, 6-8=-2111/420 TOP CHORD

**BOT CHORD** 2-11=-171/1740. 9-11=0/1153. 8-9=-186/1589

WFBS 5-9=-237/1114, 6-9=-520/345, 5-11=-221/1085, 4-11=-496/323

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 11-1-3, Exterior(2) 11-1-3 to 19-10-13, Interior(1) 19-10-13 to 26-5-11, Exterior(2) 26-5-11 to 30-10-8 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 40.0psf 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 89 lb uplift at joint 8 and 104 lb uplift at joint 2.





12-9-15

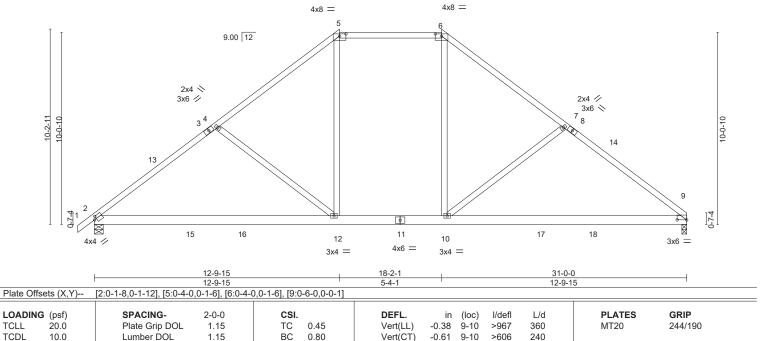
6-4-9

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8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:14:50 2021 Page 1 ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-zlvUzTkssJM16rKdFEWtEMszX\_aB1s0iY3nYNIzjrwZ

24-6-10 31-0-0 6-5-6

Scale = 1:60.3



LUMBER-

**BCLL** 

BCDL

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

0.0

10.0

Wind(LL) BRACING-

Horz(CT)

0.04

0.24

9

9-10

n/a

>999

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 3-11-13 oc purlins.

Weight: 181 lb

FT = 20%

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

n/a

240

REACTIONS. 9=0-3-0, 2=0-5-8 (size)

Max Horz 2=241(LC 9)

Max Uplift 9=-81(LC 11), 2=-96(LC 10) Max Grav 9=1429(LC 18), 2=1494(LC 17)

Rep Stress Incr

Code IRC2015/TPI2014

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

2-4=-1837/518, 4-5=-1606/488, 5-6=-1196/469, 6-7=-1608/491, 7-9=-1846/528 TOP CHORD

**BOT CHORD** 2-12=-275/1526. 10-12=-49/1239. 9-10=-295/1404

WFBS 4-12=-413/284, 5-12=-87/648, 6-10=-94/654, 7-10=-432/310

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-3-15, Exterior(2) 6-3-15 to 24-8-1, Interior(1) 24-8-1 to 26-5-11, Exterior(2) 26-5-11 to 30-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60

WB

Matrix-S

0.48

- 3) Provide adequate drainage to prevent water ponding.
- 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 40.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 9 and 96 lb uplift at joint 2.



February 19,2021



Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425646 J0221-1079 HIP A04A Job Reference (optional)

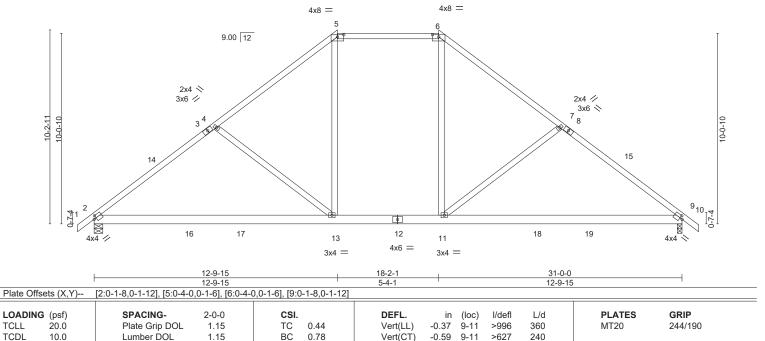
12-9-15

6-4-9

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:14:51 2021 Page 1 ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-SxTsBpkUddUuk?vqpx16nZP8NNvimJJsmjX5wlzjrwY 18-2-1 24-6-10 31-0-0 31-10-8 0-10-8 6-4-9 6-5-6

Scale = 1:60.7



Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

**BOT CHORD** 

0.04

0.24 9-11

9

n/a

>999

n/a

240

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

Structural wood sheathing directly applied or 4-1-3 oc purlins.

Weight: 183 lb

FT = 20%

LUMBER-

**BCLL** 

BCDL

WFBS

2x4 SP No.1 2x6 SP No.1

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

0.0

10.0

REACTIONS. 9=0-3-0, 2=0-5-8 (size) Max Horz 2=245(LC 9)

Max Uplift 9=-95(LC 11), 2=-96(LC 10) Max Grav 9=1486(LC 18), 2=1493(LC 17)

Rep Stress Incr

Code IRC2015/TPI2014

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

2-4=-1835/513, 4-5=-1604/483, 5-6=-1194/466, 6-7=-1606/484, 7-9=-1844/515 TOP CHORD

YES

**BOT CHORD** 2-13=-246/1530, 11-13=-20/1243, 9-11=-252/1403

WFBS 4-13=-412/285, 5-13=-85/647, 6-11=-87/652, 7-11=-429/291

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-3-15, Exterior(2) 6-3-15 to 24-8-1, Interior(1) 24-8-1 to 27-5-11, Exterior(2) 27-5-11 to 31-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60

WB

Matrix-S

0.47

- 3) Provide adequate drainage to prevent water ponding.
- 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 40.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 9 and 96 lb uplift at joint 2.



February 19,2021



Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425647 J0221-1079 HIP 2 A05 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:14:52 2021 Page 1 Comtech, Inc. ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-w81EO9l6OxclM9T0MeZLJnyE\_nFRVr4??NGfSBzjrwX -0-10-8 0-10-8 10-1-15 20-10-1 25-10-10 31-0-0 31-10-8 0-10-8

10-8-1

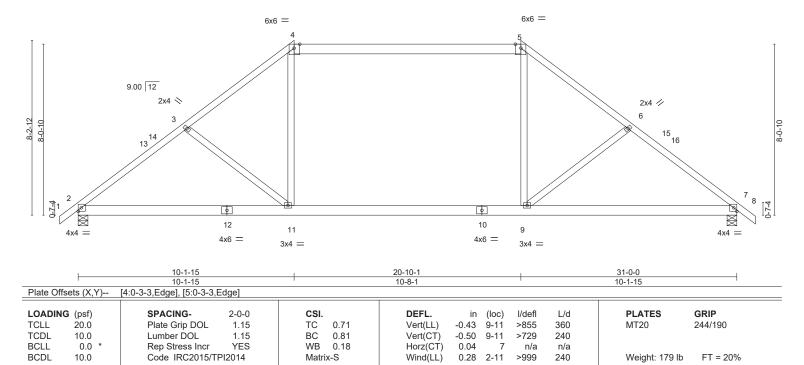
5-0-9

Structural wood sheathing directly applied or 4-3-10 oc purlins.

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

Scale = 1:54.2

5-1-6



BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

2x4 SP No.1 \*Except\* TOP CHORD 4-5: 2x6 SP No.1

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

REACTIONS.

(size) 2=0-5-8, 7=0-5-8 Max Horz 2=196(LC 9) Max Uplift 2=-82(LC 10), 7=-82(LC 11)

Max Grav 2=1453(LC 2), 7=1453(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2030/531, 3-4=-1861/518, 4-5=-1438/488, 5-6=-1861/518, 6-7=-2030/531 TOP CHORD

5-0-9

**BOT CHORD** 2-11=-280/1576, 9-11=-119/1438, 7-9=-280/1506 **WEBS** 3-11=-269/204, 4-11=-18/706, 5-9=-18/706, 6-9=-269/204

### NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 3-11-5, Exterior(2) 3-11-5 to 27-0-11, Interior(1) 27-0-11 to 27-5-11, Exterior(2) 27-5-11 to 31-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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 40.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 2 and 82 lb uplift at



February 19,2021

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

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



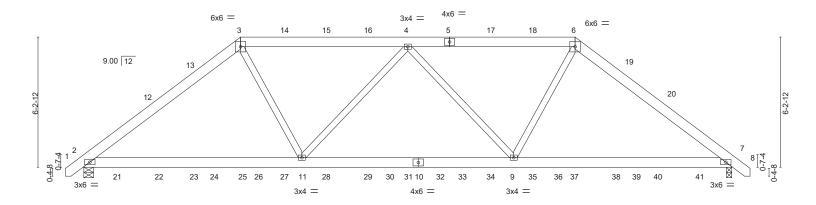
						3	E1542564	8
J0221-1079	A06	HIP GIRDER	2	2				
				_	Job Reference	e (optional)		
Comtech, Inc, Fayette	ville, NC - 28314,		8	3.330 s Oct	7 2020 MiTek	Industries, Inc. Thu Fe	eb 18 16:14:56 2021 Page 1	
			ID:PtgA9aKCfvm	BbRX6w1	bfS5yA1hk-ovl	HEXodS96ArmnnbUdH	IUd61cOjCReibw?FsbyzjrwT	
-Q-10-β	7-5-15	15-6-0	. 2	3-6-1		31-0-0	31-10-8	
0-10-8	7-5-15	8-0-1	1	3-0-1		7-5-15	5 0-10-8	

Qtv

Plv

Lot 16 Forest Ridge

Scale = 1:55.1



	10-5-3 10-5-3	20-6-13 10-1-11		+	31-0-0 10-5-3	
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 NO Code IRC2015/TPI2014	CSI.         DEFL.           TC 0.28         Vert(LI           BC 0.44         Vert(C'           WB 0.14         Horz(C           Matrix-S         Wind(L	Γ) -0.18 7-9 Τ) 0.03 7	>999 240 n/a n/a	PLATES GRIP MT20 244/190 Weight: 399 lb FT = 20%	6

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

Job

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

REACTIONS. (size) 2=0-5-8, 7=0-3-0

Max Horz 2=149(LC 26)

Truss

Truss Type

Max Uplift 2=-715(LC 8), 7=-711(LC 9) Max Grav 2=2383(LC 33), 7=2370(LC 34)

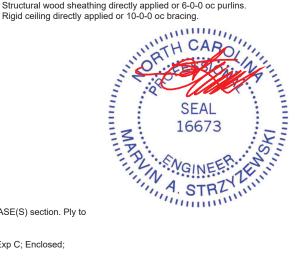
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-3031/1080, 3-4=-2893/1001, 4-6=-2911/1006, 6-7=-3045/1084 TOP CHORD

**BOT CHORD** 2-11=-902/2394 9-11=-1324/3366 7-9=-833/2384

**WEBS** 3-11=-266/1269, 4-11=-647/570, 4-9=-622/564, 6-9=-260/1256

### NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- $4) \ Wind: ASCE \ 7-10; \ Vult=130 mph \ (3-second \ gust) \ Vasd=103 mph; \ TCDL=6.0 psf; \ BCDL=5.0 psf; \ h=15 ft; \ Cat. \ II; \ Exp \ C; \ Enclosed; \ ASCE \ True \ True$ MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 715 lb uplift at joint 2 and 711 lb uplift at joint 7.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 102 lb down and 80 lb up at 3-6-12, 110 lb down and 103 lb up at 5-6-12, 149 lb down and 168 lb up at 7-5-15, 154 lb down and 164 lb up at 9-6-12, 154 lb down and 164 lb up at 11-6-12, 154 lb down and 164 lb up at 13-6-12, 154 lb down and 164 lb up at 15-6-0, 154 lb down and 164 lb up at 17-5-4, 154 lb down and 164 lb up at 19-5-4, 154 lb down and 164 lb up at 21-5-4, 149 lb down and 168 lb up at 23-6-1, and 110 lb down and 103 lb up at 25-5-4, and 102 lb down and 80 lb up at 27-5-4 on top chord, and 182 lb down and 52 lb up at 1-6-12, 63 lb down at 3-6-12, 59 lb down at 5-6-12, 62 lb down at 7-6-12, 62 lb down at 9-6-12, 62 lb down at 11-6-12, 62 lb down at 13-6-12, 62 lb down at 15-6-0, 62 lb down at 17-5-4, 62 lb down at 19-5-4, 62 lb down at 21-5-4, 62 lb down at 23-5-4, 59 lb down at 25-5-4, and 63 lb down at 27-5-4, and 182 lb down and 52 lb up at 29-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



February 19,2021

LOAD CASE(S) Standard

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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Job	Truss	Truss Type	Qty	Ply	Lot 16 Forest Ridge
J0221-1079	A06	HIP GIRDER	2	2	E15425648

Comtech, Inc,

Fayetteville, NC - 28314,

Job Reference (optional)
8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:14:56 2021 Page 2 ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-ovHlEXodS96ArmnnbUdHUd61cOjCReibw?FsbyzjrwT

### LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-6=-60, 6-8=-60, 2-7=-20

Concentrated Loads (lb)

Vert: 3=.87(F) 5=-87(F) 6=-87(F) 4=-87(F) 12=-62(F) 13=-70(F) 14=-87(F) 15=-87(F) 16=-87(F) 17=-87(F) 18=-87(F) 19=-70(F) 20=-62(F) 21=-182(F) 22=-55(F) 24=-48(F) 25=-31(F) 27=-31(F) 28=-31(F) 29=-31(F) 31=-31(F) 33=-31(F) 35=-31(F) 37=-31(F) 38=-48(F) 40=-55(F) 41=-182(F)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425649 J0221-1079 B01 **GABLE** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:14:58 2021 Page 1 ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-kHOVfCqt\_nNu44xAjvflZ2CPHCUkvZluNJkzgrzjrwR 20-0-0

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

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.

2x4 SPF No.2 - 7-19, 8-18

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

Brace must cover 90% of web length.

Scale = 1:51.5

7-0-0 7-0-0 12-3-0 4-5-15 13-0-0 0-9-0 20-10-8 0-10-8 7-0-0

4x6 =

4x6 =

8 9 6 10 12.00 12 11 12 13 94 3x10 || 3x10 || 20 23 22 21 19 18 17 16 15 4x6 = 20-0-0 20-0-0

Plate Of	rsets (X,Y)	[2:0-0-5,0-2-10], [2:0-0-2,	0-0-2 <u>], [6:0-1-</u>	12,Eage], [9:	0-1-12,Edge	<u>, [13:0-0-2,0-0-2],</u>	[13:0-0	-5,0-2-1	0]			
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	0.08	Vert(LL)	0.00	13	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-S						Weight: 177 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

T-Brace:

WFBS

LUMBER-

TOP CHORD 2x6 SP No.1 \*Except\* 6-9: 2x4 SP No.1

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

WEDGE

Left: 2x4 SP No.2 , Right: 2x4 SP No.2

REACTIONS. All bearings 20-0-0.

Max Horz 2=260(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 13, 19, 18, 17, 2 except 20=-102(LC

10), 22=-145(LC 10), 23=-231(LC 10), 16=-147(LC 11), 15=-225(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 13, 20, 22, 23, 17, 16, 15, 2

except 19=340(LC 20), 18=323(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-314/218, 12-13=-266/171

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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
- 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) Provide adequate drainage to prevent water ponding. 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 40.0psf 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 19, 18, 17, 2 except (jt=lb) 20=102, 22=145, 23=231, 16=147, 15=225.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425650 J0221-1079 B02 HIP Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:14:59 2021 Page 1

<del>1</del>2

≶

3x10 ||

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

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

ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-DUyusYrVI4VIiEWMHdB\_6FkWDciset71czTWCHzjrwQ 5-1-12 0-10-9 8-6-0 11-6-0 14-10-4 15-8-13 0-10-9 20-0-0 20-10-8 0-10-8 2-11-15

Scale = 1:59.6 4x6 = 4x6 = 2x4 = 2x4 =12.00 12 2x4 || 2x4 || 8 10-2-2 0-9-9

11

4x6 = 2x4 II 2x4 || 8-6-0 14-10-4 20-0-0 5-1-12 3-4-4 2-11-15 3-4-4 5-1-12

BRACING-

TOP CHORD

**BOT CHORD** 

9-5-0

Plate Offsets (X,Y)--[2:0-0-5,0-5-2], [2:0-0-2,0-0-2], [5:0-3-6,0-2-0], [6:0-3-6,0-2-0], [9:0-0-2,0-0-2], [9:0-0-5,0-5-2]

3x10 ||

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	0.32	Vert(LL)	-0.23	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.30	11-13	>782	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	PI2014	Matri	x-S	Wind(LL)	0.11	13	>999	240	Weight: 148 lb	FT = 20%

12 13

LUMBER-

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

WEDGE

Left: 2x8 SP No.1, Right: 2x8 SP No.1

REACTIONS. (size) 2=0-5-8, 9=0-5-8

Max Horz 2=239(LC 9) Max Uplift 2=-55(LC 10), 9=-55(LC 11)

0-4-0

Max Grav 2=1038(LC 17), 9=1038(LC 18)

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

TOP CHORD 2-3=-1360/235, 3-4=-725/305, 7-8=-725/305, 8-9=-1359/235

**BOT CHORD** 2-13=-21/817, 11-13=-21/818, 9-11=-21/817 WEBS 3-13=-6/686, 8-11=-5/686, 4-7=-801/372

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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) Provide adequate drainage to prevent water ponding.
- 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 40.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.





Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425651 J0221-1079 B03 COMMON Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

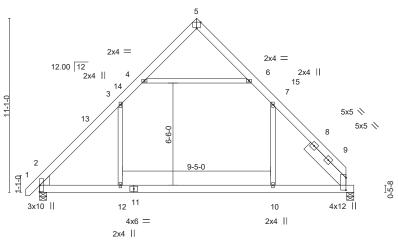
8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:14:59 2021 Page 1 ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-DUyusYrVI4VliEWMHdB\_6FkXlchEeu?1czTWCHzjrwQ

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

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

5-1-12 5-1-12 10-0-0 14-10-4 19-6-0 4-10-4 4-10-4

> Scale = 1:73.3 4x6 =



13-2-13 14-10-4 5-1-12 1-7-7

Plate Offsets (X,Y)-- [2:0-0-5,0-5-2], [2:0-0-2,0-0-2], [5:0-3-0,Edge], [9:0-9-7,0-0-0]

LOADIN	G (psf)	SPACING- 2-0	-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.1	15	TC	0.29	Vert(LL)	-0.23	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.1	15	BC	0.61	Vert(CT)	-0.29	10-12	>794	240		
BCLL	0.0 *	Rep Stress Incr YE	S	WB	0.62	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	1	Matri	x-S	Wind(LL)	0.11	12	>999	240	Weight: 155 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEDGE

Left: 2x8 SP No.1

SLIDER Right 2x8 SP No.1 - 3-6-3

REACTIONS. (size) 9=0-5-8, 2=0-5-8 Max Horz 2=256(LC 7)

Max Uplift 9=-50(LC 10), 2=-54(LC 10) Max Grav 9=997(LC 17), 2=1030(LC 17)

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

TOP CHORD 2-3=-1348/226, 3-4=-733/290, 6-7=-728/285, 7-9=-1364/218

**BOT CHORD** 2-12=-23/803, 10-12=-23/804, 9-10=-23/803 **WEBS** 3-12=-11/661, 7-10=-13/709, 4-6=-734/355

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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 5-7-3, Exterior(2) 5-7-3 to 14-4-13, Interior(1) 14-4-13 to 14-10-7, Exterior(2) 14-10-7 to 19-6-0 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 40.0psf 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) 9, 2.





Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425652 **GABLE** J0221-1079 C01 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:15:00 2021 Page 1

ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-hgWG4ur7WOdcJO5YqKiDeTHkM081NSqBrdD4kjzjrwP 7-8-0 7-8-0 10-8-0 18-4-0 3-0-0 7-8-0

Scale = 1:53.2

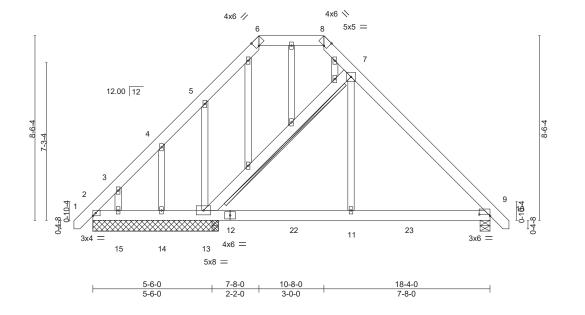


Plate Off	fsets (X,Y)	[6:0-2-2,Edge], [8:0-2-2,Ed	lge], [9:0-6-0	,0-0-12]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.02	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	9-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	2014	Matri	x-S	Wind(LL)	0.02	9-11	>999	240	Weight: 167 lb	FT = 20%

**BOT CHORD** 

LUMBER-BRACING-

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

**WEBS** 2x4 SP No.2 **OTHERS** 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

Except:

T-Brace: 2x4 SPF No.2 - 7-13 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-9-8 except (jt=length) 9=0-5-8.

Max Horz 2=-255(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 9 except 13=-246(LC 11),

14=-162(LC 10), 15=-177(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 14, 15 except 2=305(LC 10), 13=686(LC 18), 13=528(LC 1), 9=689(LC 2)

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

TOP CHORD 2-3=-434/328, 3-4=-284/205, 7-9=-705/78, 7-13=-583/278

**BOT CHORD** 2-15=-208/379, 14-15=-211/380, 13-14=-211/380, 11-13=-12/474, 9-11=-12/474

7-11=0/519, 5-13=-293/229 WEBS

### NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9 except (jt=lb)
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



February 19,2021



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

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425653 J0221-1079 C02 Hip Girder 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

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Scale = 1:51.0

ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-9s4eHEsmHilTxYglO1DSBgqupPJl6qDK4HydGAzjrwO 4-3-12 4-3-12 8-2-12 10-1-4 14-0-4 18-4-0 3-11-0 1-10-8 3-11-0 4-3-12

6-2-15

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

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

6x6 = 6x6 = 3 4 12.00 12 2x4 \\ 2x4 // 9-1-0 6 0-10-4  $\boxtimes$ 18 11 12 9 13 14 8 15 7 17 4x8 8x8 = 6x8 = 10x10 = 4x8 = 6-2-15 12-1-1

Plate Offsets (X,Y)-- [1:0-8-0,0-0-10], [6:0-5-10,0-2-0], [7:0-5-0,0-6-4], [9:0-4-0,0-6-0]

6-2-15

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 0.25	Vert(LL)	-0.08	1-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.89	Vert(CT)	-0.14	1-9	>999	240		
BCLL	0.0 *	Rep Stress Incr NO	WB 0.51	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.04	1-9	>999	240	Weight: 311 lb	FT = 20%

5-10-2

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No 1 BOT CHORD 2x8 SP No 1 2x4 SP No.2 WFBS

> (size) 1=0-5-8, 6=0-5-8 Max Horz 1=205(LC 24)

Max Uplift 1=-440(LC 8), 6=-405(LC 9) Max Grav 1=6200(LC 2), 6=5246(LC 2)

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

TOP CHORD 1-2=-5710/462, 2-3=-5544/531, 3-4=-2825/324, 4-5=-5044/508, 5-6=-5253/443

BOT CHORD 1-9=-346/3824, 7-9=-214/2825, 6-7=-241/3485

WFBS 2-9=-217/304, 3-9=-387/4154, 4-7=-344/3138, 5-7=-216/352

### NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1474 lb down and 110 lb up at 1-3-4, 1474 lb down and 110 lb up at 3-3-4, 1474 lb down and 110 lb up at 5-3-4, 912 lb down and 88 lb up at 7-3-4, 880 lb down and 88 lb up at 9-3-4, 918 lb down and 88 lb up at 11-3-4, 940 lb down and 88 lb up at 13-3-4, and 940 lb down and 88 lb up at 15-3-4, and 942 lb down and 87 lb up at 17-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

## SE 16 February 19,2021

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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 16 Forest Ridge
10004 4070	000	W. O. I			E15425653
J0221-1079	C02	Hip Girder	1	2	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:15:01 2021 Page 2 ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-9s4eHEsmHilTxYglO1DSBgqupPJI6qDK4HydGAzjrwO

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-6=-60, 1-6=-20

Concentrated Loads (lb)

Vert: 10=-1207(F) 11=-1207(F) 12=-1207(F) 13=-877(F) 14=-877(F) 15=-877(F) 16=-877(F) 17=-877(F) 18=-879(F)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425654 J0221-1079 D01 COMMON SUPPORTED GAB Job Reference (optional)

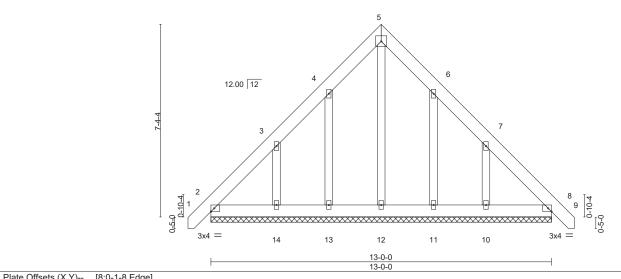
Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:15:03 2021 Page 1 ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-5FCOiwu0oJ?BArp7WSFwG5vHgDCDaqIdXbRkL2zjrwM 13-0-0

6-6-0 6-6-0 13-10-8 0-10-8 6-6-0

5x5 =

Scale = 1:44.0



T late of	130t3 (A, 1 )	[0.0-1-0,Euge]		
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) 0.00 8 n/r 120 MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) 0.00 8 n/r 120
BCLL	0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.00 8 n/a n/a
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Weight: 110 lb FT = 20%

LUMBER-

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

2x4 SP No.2 OTHERS

**BRACING-**TOP CHORD

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

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

REACTIONS. All bearings 13-0-0.

(lb) -Max Horz 2=-218(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 13=-119(LC 10), 14=-212(LC 10), 11=-115(LC 11),

10=-212(LC 11)

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.

-0-10-8 0-10-8

**WEBS** 3-14=-255/221, 7-10=-255/220

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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
- 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 40.0psf 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 except (jt=lb) 13=119, 14=212, 11=115, 10=212,
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.







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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



JUD	IIuss	Truss Type	Qty	F I y	Lot 10 1 of est Mage	,	
						E15425655	
J0221-1079	G01	COMMON GIRDER	3	1			
					Job Reference (optional)		
Comtech, Inc, Fayette	ville, NC - 28314,			3.330 s Oc	7 2020 MiTek Industries, I	nc. Thu Feb 18 16:15:04 2021 Page 1	
		ID:PtaA0ak	CfvmRhP)	(6)4/1hf95)	A1hk 7PmnyGue7d72o20k	K3Aman IDOadl la IHEmmEBHtl Izinul	

<del>-0-10-8</del> <del>0-10-8</del> 10-0-0 20-0-0 20-10-8 0-10-8 10-0-0 10-0-0

Scale = 1:36.0

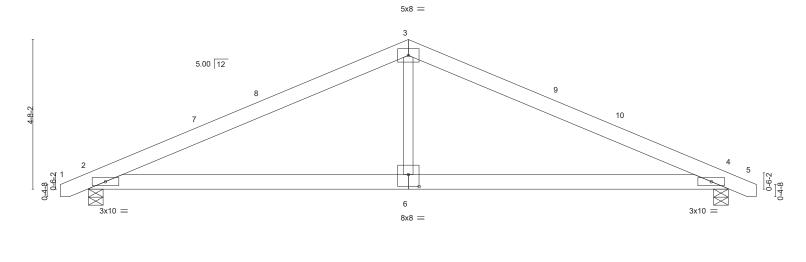


Plate Offsets (X,Y)	Plate Offsets (X,Y) [6:0-4-0,0-4-8]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL)	-0.04 2	-6 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT)	-0.10 2	-6 >999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT)	0.01	4 n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.03 2	-6 >999	240	Weight: 108 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

10-0-0

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 2400F 2.0E BOT CHORD 2x6 SP 2400F 2.0E 2x4 SP No.2 WFBS

REACTIONS. (size) 2=0-5-8, 4=0-5-8

Max Horz 2=-54(LC 11)

Max Uplift 2=-82(LC 10), 4=-82(LC 11) Max Grav 2=839(LC 1), 4=839(LC 1)

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

TOP CHORD 2-3=-1255/399, 3-4=-1255/399 **BOT CHORD** 

2-6=-222/1053, 4-6=-222/1053 WFBS 3-6=0/474

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-12 to 3-8-1, Interior(1) 3-8-1 to 5-7-3, Exterior(2) 5-7-3 to 14-4-13, Interior(1) 14-4-13 to 16-3-15, Exterior(2) 16-3-15 to 20-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

10-0-0

- 4) \* This truss has been designed for a live load of 40.0psf 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.





Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425656 COMMON GIRDER J0221-1079 G02 Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:15:09 2021 Page 1 Comtech, Inc.

Fayetteville, NC - 28314,

ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-wPZgyzynO9lKumHHsjMKWM9CceAr\_XbVvWu2YizjrwG 10-0-0 20-0-0 10-0-0

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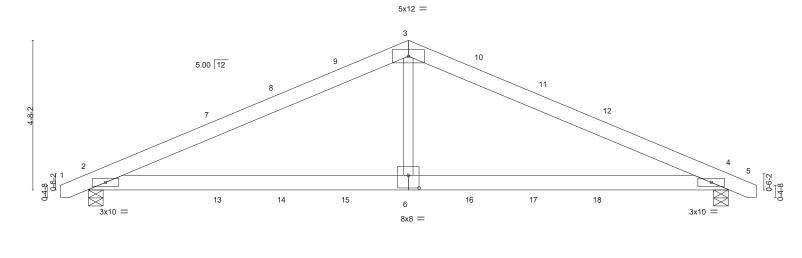


Plate Offsets (X,Y)	[6:0-4-0,0-4-12]		10-0-0	
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.46	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.06         2-6         >999         360	PLATES         GRIP           MT20         244/190
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	BC 0.33 WB 0.16 Matrix-S	Vert(CT)         -0.15         2-6         >999         240           Horz(CT)         0.02         4         n/a         n/a           Wind(LL)         0.05         2-6         >999         240	Weight: 108 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

<del>-0-10-8</del> <del>0-10-8</del>

TOP CHORD 2x6 SP 2400F 2 0F BOT CHORD 2x6 SP 2400F 2.0E 2x4 SP No.2 WFBS

REACTIONS.

(size) 2=0-5-8, 4=0-5-8 Max Horz 2=-54(LC 28)

Max Uplift 2=-182(LC 8), 4=-182(LC 9) Max Grav 2=1183(LC 1), 4=1183(LC 1)

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

TOP CHORD 2-3=-1906/299. 3-4=-1906/299 **BOT CHORD** 2-6=-214/1623, 4-6=-214/1623

WFBS 3-6=0/728

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.

10-0-0

- 4) \* This truss has been designed for a live load of 40.0psf 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) except (jt=lb) 2=182, 4=182.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 75 lb up at 4-0-12, 91 lb down and 56 lb up at 6-0-12, 89 lb down and 63 lb up at 8-0-12, 78 lb down and 87 lb up at 10-0-0, 89 lb down and 63 lb up at 11-11-4, and 91 lb down and 56 lb up at 13-11-4, and 128 lb down and 75 lb up at 15-11-4 on top chord, and 69 lb down at 4-0-12, 40 lb down at 6-0-12, 41 lb down at 8-0-12, 45 lb down and 22 lb up at 10-0-0, 41 lb down at 11-11-4, and 40 lb down at 13-11-4, and 69 lb down at 15-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-5=-60, 2-4=-20

Concentrated Loads (lb)

Vert: 3=-48(B) 6=-33(B) 7=-88(B) 8=-51(B) 9=-49(B) 10=-49(B) 11=-51(B) 12=-88(B) 13=-51(B) 14=-31(B) 15=-32(B) 16=-32(B) 17=-31(B) 18=-51(B)



Structural wood sheathing directly applied or 6-0-0 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 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, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425657 JACK-OPEN GIRDER 2 J0221-1079 G04 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:15:10 2021 Page 1 Comtech, Inc. ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-Ob72AJzP9StBWwsTQQtZ2ahTL2aUj0Pf8Aec58zjrwF -0-10-8 1-1-0 4-6-0 0-10-8 1-1-0 Scale = 1:13.7 4x4 = 3 12.00 12 0-4-8 7 8 3x10 || 1-1-0 1-1-0 3-5-0 Plate Offsets (X,Y)--[2:0-0-2,0-5-0], [2:0-0-1,0-0-1], [3:0-2-0,0-3-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) -0.00 2-5 >999 360 MT20 244/190 TCDL Vert(CT)

-0.01

0.01

0.00

Horz(CT)

Wind(LL)

**BRACING-**

TOP CHORD

**BOT CHORD** 

2-5

2-5

>999

>999

n/a

240

n/a

240

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

Structural wood sheathing directly applied or 4-6-0 oc purlins.

LUMBER-

**BCLL** 

BCDL

TOP CHORD 2x6 SP 2400F 2.0E BOT CHORD 2x6 SP 2400F 2.0E

10.0

0.0

10.0

WEDGE

Left: 2x8 SP No.1

REACTIONS. (size) 4=Mechanical, 2=0-5-8, 5=Mechanical Max Horz 2=61(LC 8)

Max Uplift 4=-63(LC 5), 2=-43(LC 8)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

Max Grav 4=148(LC 20), 2=298(LC 1), 5=109(LC 3)

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-P

0.05

0.00

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

NO

- 5) \* This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 67 lb up at 1-1-0, and 44 lb down and 64 lb up at 3-1-12 on top chord, and 36 lb down at 1-1-12, and 34 lb down at 3-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-4=-60, 2-5=-20 Concentrated Loads (lb)

Vert: 3=-41(F) 6=-41(F) 7=-18(F) 8=-17(F)



Weight: 27 lb

FT = 20%

February 19,2021



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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Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425658 J0221-1079 2 G05 JACK-OPEN Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:15:13 2021 Page 1 Comtech, Inc. ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-oAoAoL?HSNGmNOa25ZRGgCJ?4FcSwM85q8sGhTzjrwC -0-10-8 1-11-0 1-11-0 4-6-0 0-10-8 Scale = 1:17.9 3 12.00 12 3-0-2

4-6-0

**BRACING-**

TOP CHORD

**BOT CHORD** 

Plate Offsets	Plate Offsets (X,Y) [2:0-0-1,0-0-1], [2:0-0-2,0-5-0]											
LOADING (	(psf)	SPACING- 2-0	-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL 1.1	15	TC	0.04	Vert(LL)	-0.00	2-5	>999	360	MT20	244/190
TCDL 1	10.0	Lumber DOL 1.1	15	BC	0.04	Vert(CT)	-0.01	2-5	>999	240		
BCLL	0.0 *	Rep Stress Incr YE	S	WB	0.00	Horz(CT)	0.01	4	n/a	n/a		
BCDL 1	10.0	Code IRC2015/TPI2014	1	Matrix	x-P	Wind(LL)	0.00	2-5	>999	240	Weight: 28 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E BOT CHORD 2x6 SP 2400F 2.0E

WEDGE

Left: 2x8 SP No.1

REACTIONS.

(size) 4=Mechanical, 2=0-5-8, 5=Mechanical

0-4-8

Max Horz 2=84(LC 10)

Max Uplift 4=-43(LC 7), 2=-6(LC 10)

Max Grav 4=111(LC 1), 2=233(LC 1), 5=80(LC 3)

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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

3x10 ||

- 3) Provide adequate drainage to prevent water ponding.
- 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 40.0psf 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) Refer to girder(s) for truss to truss connections.
- 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 4-6-0 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 chore members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425659 2 J0221-1079 G06 JACK-OPEN Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:15:15 2021 Page 1 Comtech, Inc. ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-IZwxD01Y\_?WUchkRD\_TkldPKP3lpOGeOISLMmMzjrwA -0-10-8 0-10-8 2-9-0 2-9-0 4-6-0 Scale = 1:22.2 4x4 =3 12.00 12 3-10-2

4-6-0

**BRACING-**

TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y)	[2:0-0-1,0-0-1], [2:0-0-2,0-5-0]

LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	2-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.01	2-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-P	Wind(LL)	0.00	2-5	>999	240	Weight: 29 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E BOT CHORD 2x6 SP 2400F 2.0E

WEDGE

Left: 2x8 SP No.1

REACTIONS. (size) 4=Mechanical, 2=0-5-8, 5=Mechanical

Max Horz 2=111(LC 10) Max Uplift 4=-50(LC 7)

Max Grav 4=109(LC 1), 2=233(LC 1), 5=81(LC 3)

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

0-4-8,

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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

3x10 ||

- 3) Provide adequate drainage to prevent water ponding.
- 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 40.0psf 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.



Structural wood sheathing directly applied or 4-6-0 oc purlins.

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



Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425660 J0221-1079 JACK-OPEN G07 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

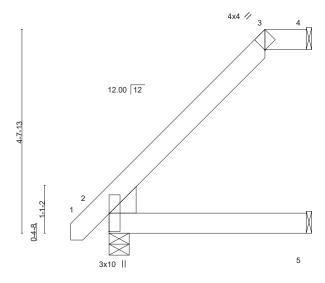
8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:15:17 2021 Page 1 ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-hx2hei2oVcmCs?uqKOVCq2UfgszBsA8hlmqTrEzjrw8

Structural wood sheathing directly applied or 4-6-0 oc purlins.

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

-0-10-8 0-10-8 3-6-11 3-6-11 4-6-0 0-11-5

Scale = 1:26.3



2-3-0

**BRACING-**

TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y)	[2:0-0-2,0-5-0], [2:0-0-1,0-0-1], [3:0-0-2,Edge]

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	0.07	Vert(LL)	-0.00	2-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.01	2-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT	0.01	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matri	x-P	Wind(LL	0.01	2-5	>999	240	Weight: 30 lb	FT = 20%

LUMBER-

2x6 SP 2400F 2.0E \*Except\* TOP CHORD

3-4: 2x6 SP No.1 **BOT CHORD** 2x6 SP 2400F 2.0E

WEDGE

Left: 2x8 SP No.1

REACTIONS.

(size) 4=Mechanical, 2=0-5-8, 5=Mechanical

Max Horz 2=142(LC 10)

Max Uplift 4=-78(LC 10), 5=-2(LC 10)

Max Grav 4=109(LC 17), 2=233(LC 1), 5=81(LC 3)

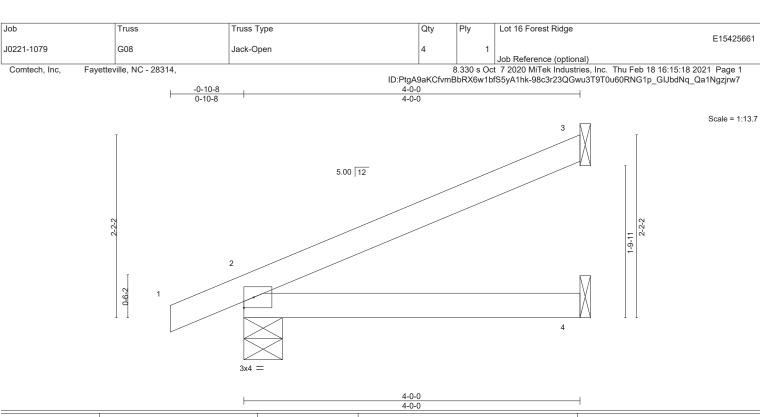
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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) Provide adequate drainage to prevent water ponding.
- 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 40.0psf 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.







LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.01	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.02	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00	) 2	****	240	Weight: 14 lb	FT = 20%

LUMBER-

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

**BRACING-**

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

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

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=64(LC 10)

Max Uplift 3=-51(LC 10), 2=-27(LC 6)

Max Grav 3=101(LC 1), 2=224(LC 1), 4=74(LC 3)

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

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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
- 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 40.0psf 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) 3, 2.







Job	Truss	Truss Type	Qty	Ply	Lot 16 Forest Ridge
					E15425662
J0221-1079	J02	Jack-Open	8	1	
					Job Reference (optional)

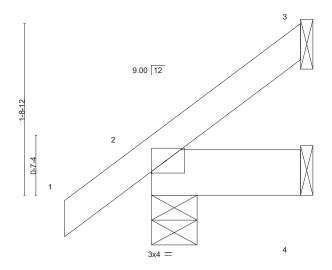
Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:15:20 2021 Page 1

Structural wood sheathing directly applied or 1-6-0 oc purlins.

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

ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-5WjqGk5goX8njTcP?X3vSh6BH4?Y3Xt7Rk37RZzjrw5 -0-10-8 1-6-0 0-10-8

Scale = 1:11.6



1-6-0

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) -0.0	0 2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.0	0 2	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.0	0 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.0	0 2	****	240	Weight: 8 lb	FT = 20%

BRACING-TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=55(LC 10)

Max Uplift 3=-28(LC 10), 2=-7(LC 10)

Max Grav 3=34(LC 17), 2=131(LC 1), 4=29(LC 3)

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

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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
- 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 40.0psf 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) 3, 2.





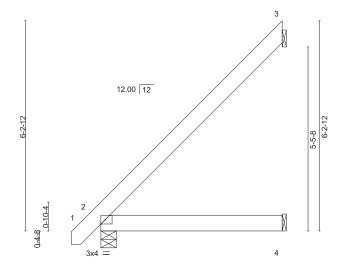
Job	Truss	Truss Type	Qty	Ply	Lot 16 Forest Ridge	
10004 4070	105	IA OK ODEN	40		E1542566	33
J0221-1079	J05	JACK-OPEN	18	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:15:22 2021 Page 1 ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-2vrahP6xK8OUymmn7y5NX6BUptgaXRNQv2YEWSzjrw3

0-10-8

Scale = 1:34.2



- 1	5-4-8	ı
	5-4-8	1

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DE	EFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Ve	ert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Ve	ert(CT)	-0.02	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Ho	orz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	12014	Matri	x-P	Wi	ind(LL)	0.00	2	****	240	Weight: 34 lb	FT = 20%

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=194(LC 10) Max Uplift 3=-152(LC 10)

Max Grav 3=184(LC 17), 2=267(LC 1), 4=102(LC 3)

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

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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
- 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 40.0psf 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) except (jt=lb) 3=152.





818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425664 J0221-1079 J05A JACK-OPEN 4 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

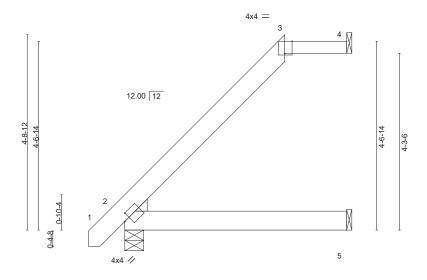
8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:15:24 2021 Page 1 ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-\_lzK658BsmeCC4wAEN7rcXGqehLh?LsjMM1LaKzjrw1

Structural wood sheathing directly applied or 5-4-8 oc purlins.

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

-0-10-8 0-10-8 3-10-8 3-10-8 5-4-8 1-6-0

Scale = 1:27.9



		3-10-8	5-4-8	
		3-10-8	1-6-0	
ate Offsets (X,Y)	[2:0-1-12,0-1-12], [3:0-2-2,Edge]			

51 1 05 1 0110		<u> </u>	0 10 0	100		
Plate Offsets (X,Y)	[2:0-1-12,0-1-12], [3:0-2-2,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL)	-0.01 2-5	>999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT)	-0.02 2-5	>999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.04 4	n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL)	0.01 2-5	>999 240	Weight: 32 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SP No.1 \*Except\* 3-4: 2x4 SP No.1

BOT CHORD 2x6 SP No.1

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 4=Mechanical, 2=0-5-8, 5=Mechanical

Max Horz 2=148(LC 10) Max Uplift 4=-68(LC 10)

Max Grav 4=130(LC 1), 2=267(LC 1), 5=99(LC 3)

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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) Provide adequate drainage to prevent water ponding.
- 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 40.0psf 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.



February 19,2021

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ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425665 J0221-1079 J05B JACK-OPEN 4 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:15:25 2021 Page 1 Comtech, Inc. ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-SUXjJR9pd3m3pEVMo4e49kp?I5glko6sb0mu7mzjrw0 -0-10-8 0-10-8 2-4-8 2-4-8 5-4-8 3-0-0 Scale = 1:19.8 4x4 = 3 12.00 12 3-0-14 0-10-4 0-4-8 5 2-4-8 2-4-8 3-0-0 Plate Offsets (X,Y)-- [2:0-1-12,0-1-12], [3:0-2-2,Edge]

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 0.22	Vert(LL)	-0.01	2-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.13	Vert(CT)	-0.02	2-5	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.06	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL)	0.01	2-5	>999	240	Weight: 29 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD

2x6 SP No.1 \*Except\* 3-4: 2x4 SP No.1

BOT CHORD 2x6 SP No.1

WEDGE

Left: 2x4 SP No.3

REACTIONS.

(size) 4=Mechanical, 2=0-5-8, 5=Mechanical

Max Horz 2=99(LC 10)

Max Uplift 4=-45(LC 7), 2=-9(LC 10)

Max Grav 4=122(LC 1), 2=267(LC 1), 5=103(LC 3)

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; 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) Provide adequate drainage to prevent water ponding.
- 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 40.0psf 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.

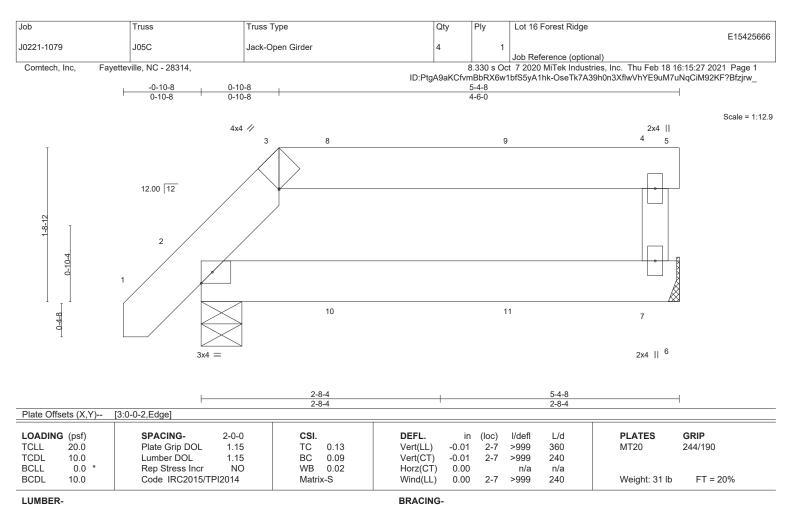


Structural wood sheathing directly applied or 5-4-8 oc purlins.

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

February 19,2021





TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No 1 BOT CHORD 2x6 SP No 1 2x4 SP No 2 WFBS

(size) 2=0-5-8, 7=Mechanical Max Horz 2=53(LC 27)

Max Uplift 2=-26(LC 8), 7=-32(LC 5)

Max Grav 2=258(LC 1), 7=202(LC 20)

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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 40.0psf 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 26 lb up at 1-6-12, and 57 lb down and 26 lb up at 3-6-12 on top chord, and 4 lb down at 1-6-12, and 4 lb down at 3-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-4=-60, 4-5=-20, 2-6=-20



Structural wood sheathing directly applied or 5-4-8 oc purlins.

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

February 19,2021



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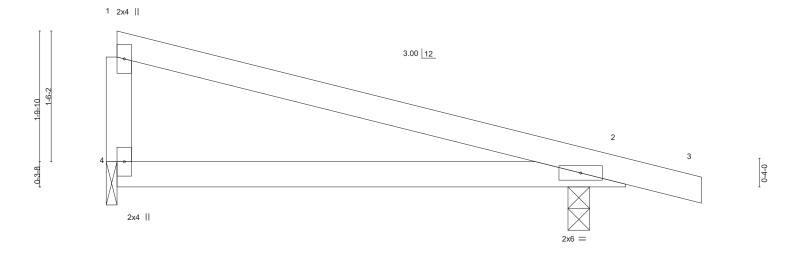
Job Truss Truss Type Qty Ply Lot 16 Forest Ridge E15425667 J0221-1079 ROOF SPECIAL M01 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Thu Feb 18 16:15:30 2021 Page 1 ID:PtgA9aKCfvmBbRX6w1bfS5yA1hk-pRKcN9DyRcPMw?NKbdEFsoWmW6EeP3MbklUfn\_zjrvx

6-0-0 6-10-8 0-10-8

Scale = 1:13.3



	<u> </u>	5-7-0 5-7-0			6-0-0   0-5-0
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (lo	oc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) -0.06 2	2-4 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.11 2	2-4 >608 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	2 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.13 2	2-4 >548 240	Weight: 21 lb FT = 20%

LUMBER-

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

2x4 SP No.2 WFBS

**BRACING-**

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

except end verticals.

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

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

Max Horz 4=-58(LC 7)

Max Uplift 4=-97(LC 7), 2=-127(LC 7) Max Grav 4=223(LC 1), 2=294(LC 1)

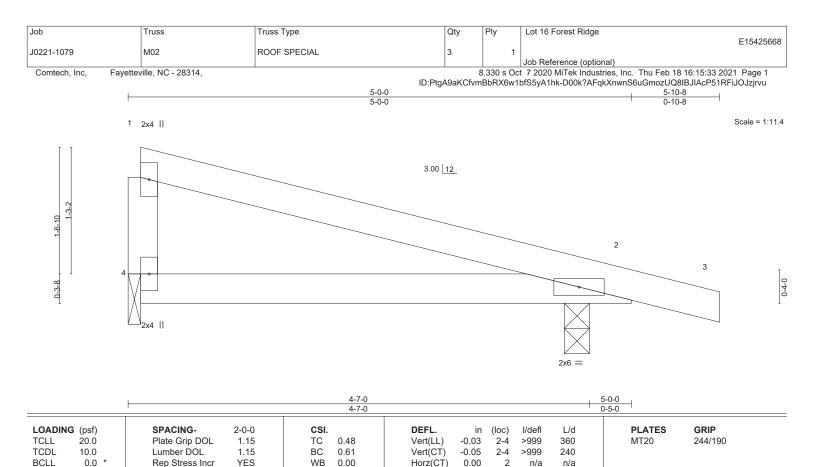
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch right 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 40.0psf 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=127.



February 19,2021



Wind(LL)

BRACING-

TOP CHORD

**BOT CHORD** 

2-4

>970

except end verticals.

240

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

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

Weight: 18 lb

FT = 20%

0.06

LUMBER-

BCDL

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

10.0

2x4 SP No.2 WFBS

REACTIONS. (size) 4=0-1-8, 2=0-3-0 Max Horz 4=-49(LC 7)

Max Uplift 4=-79(LC 7), 2=-113(LC 7) Max Grav 4=182(LC 1), 2=256(LC 1)

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

Code IRC2015/TPI2014

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch right 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 40.0psf 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.

Matrix-P

- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=113.







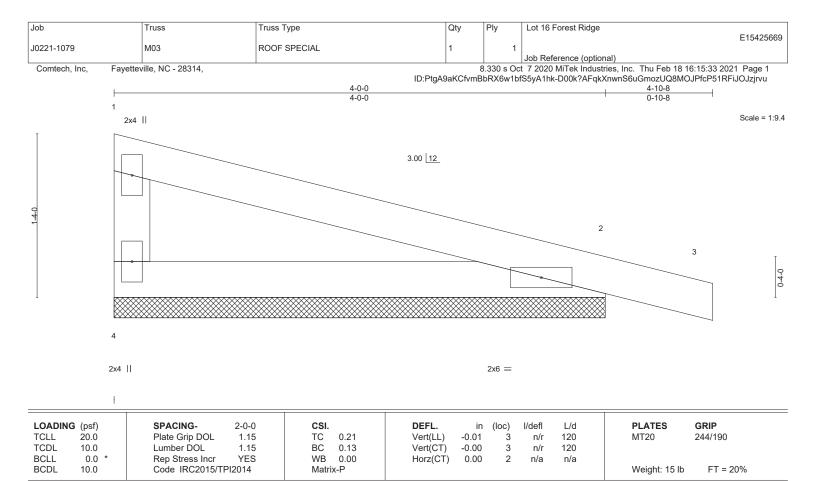
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**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

2x4 SP No.2 WFBS

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

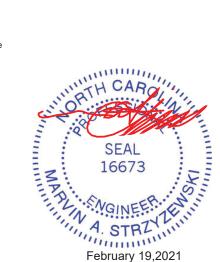
Max Horz 4=-58(LC 7)

Max Uplift 4=-51(LC 11), 2=-91(LC 7) Max Grav 4=148(LC 1), 2=213(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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) 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 40.0psf 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 4-0-0 oc purlins,

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

except end verticals





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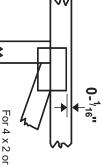


## Symbols

# 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**



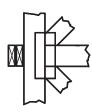
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



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

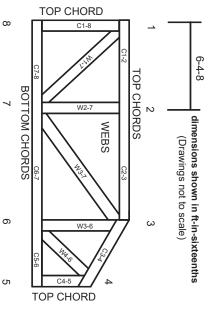
## Industry Standards:

ANSI/TPI1: National Design Specification for Metal Installing & Bracing of Metal Plate Connected Wood Trusses. Guide to Good Practice for Handling Design Standard for Bracing.

Building Component Safety Information. Plate Connected Wood Truss Construction.

DSB-89:

# 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
- 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.

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

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.

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- 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

φ.

- 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
- Top chords must be sheathed or purlins provided at spacing indicated on design.

3

- 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.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. 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.