Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483 843 209-5784, Fax (866)-213-4614

The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

AST #: 28820 JOB: 21-5978-R01

JOB NAME: 49786-0223 WOODGROVE

Wind Code: 37

Wind Speed: Vult= 115mph

Exposure Category: B

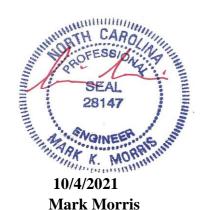
Mean Roof Height (feet): 23

These truss designs comply with IRC 2015 as well as IRC 2018.

14 Truss Design(s)

Trusses:

J01, R01, R02, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13



Warning !—Verify design parameters and read notes before use.

This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI

.lob Truss Truss Type Qty 49786-0223 WOODGROVE | FUQUAY VARINA, NC 21-5978-R01 J01 .lack-Closed # 28820 Job Reference (optional)

0-4-8

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:17 2021 Page 1 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-ge3qvmGOOiLVbhO03AyH?z_SVsbH5nkHa7dlahyWm7y 2-0-0

Scale = 1:11.2

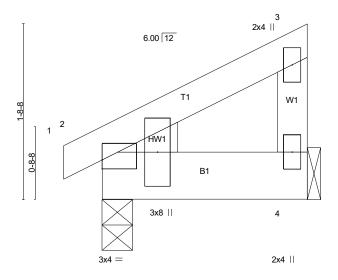


Plate Offcets (X V)__ [2:0_0_0 0_1_1]

Flate Offsets (A, 1) [2.0-0-0,0-1-1]									
TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.07 BC 0.04 WB 0.00 Matrix-P	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 2 >999 240 Vert(CT) -0.00 2 >999 180 Horz(CT) 0.00 n/a n/a	PLATES GRIP MT20 244/190 Weight: 11 lb FT = 20%					
DODL 10.0									

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

BRACING-

2-0-0

TOP CHORD

Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals

BOT CHORD

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=70/Mechanical, 2=100/0-3-8 (min. 0-1-8)

Max Horz 2=32(LC 14)

Max Uplift4=-18(LC 14), 2=-2(LC 14) Max Grav 4=90(LC 21), 2=130(LC 21)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- standard ANSI/TPI 1.

 10) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.

 11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are only graphical representations of a possible bearing condition.

- 11) Bearing syllinois are only structural design of the truss to support the loads indicated.
 12) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 13) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED.
 14) MAINIMALIM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE
 15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED.
 16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED.
 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED.
 18) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED.
 19) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED.
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 10) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED.
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 10) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED.
 11) SEE BCSI-B3 SUMMARY CONSIDERATIONS.

10/4/2021

NOINEE K. MORR

MORRES 14/2027 LOAD CASE(S) Standard Warning !--Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job Truss Truss Type Qty 49786-0223 WOODGROVE | FUQUAY VARINA, NC 21-5978-R01 R01 Common Supported Gable # 28820 lob Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:26 2021 Page 1 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-wN6EorN2HTTDA4al5YcOtts_CUeYirece1IGOgyWm7p 10-4-0 20-8-0 21-0₇8 10-4-0 10-4-0 0-4-8 Scale = 1:37.3

4x4 = 8 7 6.00 12 Ð 10 27 11 12 3x4 < 3x4 🕏 13 Ð 6 15 SAW! 0-8-8 0-8-8 3x6 || 3x6 || 25 24 17 16 23 28 22 21 20 19 29 18 3x6 =20-8-0

Plate Offsets (X,Y)-- [2:0-4-1,0-0-5], [14:0-4-1,0-0-5] LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. in (loc) I/defl I/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) 0.00 14 n/r 180 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.10 Vert(CT) 0.00 14 n/r 80 TCDL 10.0 WB 0.09 Rep Stress Incr YES Horz(CT) 0.00 14 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 113 lb Matrix-SH FT = 20%**BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

20-8-0

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 2x4 SP No 3 OTHERS

Left 2x4 SP No.3 - 1-6-12, Right 2x4 SP No.3 - 1-6-12 SLIDER

REACTIONS. All bearings 20-8-0

(lb) - Max Horz 2=-65(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 22, 23, 24, 25, 19, 18, 17, 16, 2

Max Grav All reactions 250 lb or less at joint(s) 14, 21, 23, 24, 25, 18, 17, 16, 2 except 22=294(LC 5), 19=294(LC

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

NOTES-(14-17)

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-4-8 to 4-4-0, Exterior(2N) 4-4-0 to 5-6-6, Corner(3R) 5-6-6 to 15-1-10, Exterior(2N) 15-1-10 to 16-2-14, Corner(3E) 16-2-14 to 21-0-8 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

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

 11) * 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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplife at 1...

 13) This truss is designed in accordance. fit between the bottom chord and any other members, with DOD.

 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 to 3, 17, 16, 2.

 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

MORRIS dand NOINEE

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

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

10/4/2021

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for all more continued on page 2 continued on page 2 vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer — not truss designer or truss engineer. Bracing shown is for lateral support vertically. Applicability of the arcsetor. Additional permanent bracing of the overall structure is the of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	49786-0223 WOODGROVE FUQUAY VARINA, NC
21-5978-R01	R01	Common Supported Gable	1	1	Job Reference (optional) # 28820

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:27 2021 Page 2 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-OZgc0BOg2nb4oE9xfG7dP4P9yu_nRlulth2qw6yWm7o

- 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



Job Truss Truss Type Qtv 49786-0223 WOODGROVE | FUQUAY VARINA, NC 21-5978-R01 R02 Common # 28820 lob Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:28 2021 Page 1 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-smE_DXPlp4jxPOk8DzfsylyCjlEdAjNu6LnNSYyWm7n 10-4-0 15-4-4 20-8-0 21-0-8 0-4-8 5-3-12 5-0-4 5-0-4 5-3-12 Scale = 1:36.2 4x6 = 6.00 12 2x4 \\ 2x4 // 5 12 5-10-8 **T**2 3x4 // 6 3x4 < (e) HW 0-8-8 R2 11 14 15 10 9 3x6 || 3x6 || 3x4 =3x6 =3x4 =13-8-3 20-8-0 6-11-13 6-11-13 6-8-5 Plate Offsets (X,Y)-- [1:0-3-0,0-0-5], [7:0-4-1,0-0-5] DEFL. **PLATES** GRIP in (loc) I/defl I/d

LOADING (ps	f)	SPACING- 2-0-0	CSI.
TCLL (roof)	20.0		
Snow (Pf)	20.0	Plate Grip DOL 1.15	TC 0.58
` ,		Lumber DOL 1.15	BC 0.51
TCDL	10.0	Rep Stress Incr YES	WB 0.20
BCLL	0.0 *	Code IRC2018/TPI2014	Matrix-SH
BCDL	10.0	0006 11(02010/1712014	Wiattix-Si i

BRACING-

Vert(LL)

Vert(CT)

Horz(CT)

-0.10

-0.16

0.03

9-11

9-11

>999

>999

n/a

240

180

n/a

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

MT20

Weight: 103 lb

244/190

FT = 20%

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No 3 WFBS

SLIDER Left 2x4 SP No.3 - 2-11-4, Right 2x4 SP No.3 - 2-11-4

REACTIONS. (lb/size) 1=826/0-3-8 (min. 0-1-8), 7=849/0-3-8 (min. 0-1-8)

Max Horz 1=70(LC 14)

Max Uplift1=-43(LC 14), 7=-48(LC 15) Max Grav 1=860(LC 21), 7=883(LC 22)

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

TOP CHORD 1-2=-1401/186, 2-12=-1273/200, 3-12=-1258/202, 3-4=-1238/217, 4-5=-1237/215,

5-13=-1272/200, 6-13=-1279/197, 6-7=-1400/177

BOT CHORD 1-11=-128/1171, 11-14=-40/775, 14-15=-40/775, 10-15=-40/775, 9-10=-40/775,

7-9=-126/1170

4-9=-47/479, 5-9=-323/124, 4-11=-48/480, 3-11=-323/126

NOTES-

WFBS

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-9-10, Interior(1) 4-9-10 to 5-2-13, Exterior(2R) 5-2-13 to 15-5-3, Interior(1) 15-5-3 to 16-2-14, Exterior(2E) 16-2-14 to 21-0-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs

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

* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will be tween the bottom chord and any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb and the standard ANSITTED. 5) This truss has been designed for a 10.0 psf bottom chord live load non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load non-concurrent with sample of the bottom chord in all areas where 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) 1, 7.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



10/4/2021

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Job	Truss	Truss Type	Qty	Ply	49786-0223 WOODGROVE FUQUAY VARINA, NC
21-5978-R01	R02	Common	1	1	Job Reference (optional) # 28820

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:28 2021 Page 2 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-smE_DXPIp4jxPOk8DzfsylyCjlEdAjNu6LnNSYyWm7n

- 10) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the

12) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

13) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



Job Truss Truss Type 49786-0223 WOODGROVE | FUQUAY VARINA, NC 21-5978-R01 R03 Common Supported Gable # 28820 lob Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:29 2021 Page 1 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-KyoNRsQwZOro1XJKmhA5UVUVBhgWvD12K?Xw?_yWm7m 6-8-0 13-4-0 13-8-8 0-4-8 6-8-0 6-8-0 Scale = 1:25.1 4x4 =6 6.00 12 5 3x4 / 9 3x4 < 11 10 HM 8-8-0 16 15 14 13 12 3x6 || 3x6 || 13-4-0 Plate Offsets (X,Y)-- [2:0-4-1,0-0-5], [10:0-4-1,0-0-5] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl I/d 20.0 Plate Grip DOL 1.15 TC 0.09 Vert(LL) 0.00 10 n/r 180 MT20 244/190 Vert(CT) 0.00 10 n/r 80

TCLL (roof) Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.08 TCDL 10.0 WB 0.04 Rep Stress Incr YES **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-SH **BCDL** 10.0

BRACING-

Horz(CT)

0.00

10

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

Weight: 65 lb

FT = 20%

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

n/a

n/a

LUMBER-TOP CHORD 2x4 SP No.2

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

Left 2x4 SP No.3 - 1-6-12, Right 2x4 SP No.3 - 1-6-12 SLIDER

REACTIONS. All bearings 13-4-0.

(lb) - Max Horz 2=43(LC 18)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12

Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 13 except 16=279(LC 21), 12=279(LC 22)

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

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-4-8 to 4-8-0, Corner(3R) 4-8-0 to 8-8-0, Corner(3E) 8-8-0 to 13-8-8 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

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

 11) * 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 1-0-0 wide will fit between the bottom chord and any other members.

 12) Provide mechanical connection (by others) of truss to bearing plate capable of with the six decimals.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced

standard ANSI/TPI 1.

William Manual M SEAL 28147 NOINEE K. MORR

10/4/2021

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for all more continued on page 2 continued on page 2 vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer — not truss designer or truss engineer. Bracing shown is for lateral support vertically. Applicability of the arcsetor. Additional permanent bracing of the overall structure is the of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	49786-0223 WOODGROVE FUQUAY VARINA, NC
21-5978-R01	R03	Common Supported Gable	1	1	Job Reference (optional) # 28820

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:30 2021 Page 2 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-o8MleCRYKi_ffhuWKOhK1j1gx50legGBZfGUXRyWm7I

- 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the

16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



.lob Truss Truss Type 49786-0223 WOODGROVE | FUQUAY VARINA, NC 21-5978-R01 R04 Common # 28820 Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:31 2021 Page 1 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-GKv7rYRA5?6WGrTiu6CZawae_VFqN5ULoJ013tyWm7k 6-8-0 13-4-0 6-8-0 6-8-0 Scale = 1:24.9 4x4 = 4 6.00 12 10 3x4 / 5 3x4 < 3 3x4 / 3x4 > W١ OHW. 6 7 2x4 II 3x6 || 3x6 || 13-4-0 6-8-0 6-8-0 Plate Offsets (X,Y)-- [2:0-4-1,0-0-5], [6:0-4-1,0-0-5] LOADING (psf) SPACING-DEFL. (loc) **PLATES** GRIP 2-0-0 CSI. in I/defl I/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.90 Vert(LL) -0.066-7 >999 240 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.48 Vert(CT) -0.10 6-7 >999 180 TCDL 10.0 WB 0.11 Rep Stress Incr YES Horz(CT) 0.01 6 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-SH Weight: 59 lb FT = 20%**BCDL** 10.0 LUMBER-BRACING-Structural wood sheathing directly applied or 2-2-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. TOP CHORD 2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No 3 WFBS MiTek recommends that Stabilizers and required cross bracing SLIDER Left 2x4 SP No.3 - 3-8-4, Right 2x4 SP No.3 - 3-8-4 be installed during truss erection, in accordance with Stabilizer Installation guide

REACTIONS. (lb/size) 6=533/0-3-8 (min. 0-1-8), 2=556/0-3-8 (min. 0-1-8)

Max Horz 2=-48(LC 15) Max Uplift6=-27(LC 15), 2=-32(LC 14) Max Grav 6=605(LC 22), 2=628(LC 21)

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

TOP CHORD 2-8=-771/145, 3-8=-651/153, 3-9=-617/155, 4-9=-588/168, 4-10=-584/169, 5-10=-617/155,

5-11=-651/154. 6-11=-771/145 **BOT CHORD** 2-7=-61/552, 6-7=-61/552

WFBS 4-7=0/291

NOTES-(10-13)

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-4-8 to 4-5-2, Exterior(2R) 4-5-2 to 8-6-6, Exterior(2E) 8-6-6 to 13-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

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

7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.

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

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) Graphical bracing representation described in a control of the section o

6) This truss has been designed for a live is between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding is standard ANSI/TPI 1.
10) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
10) Graphical bracing representations of a possible bearing condition. Bearing symbols are not considered in the least indicated.
10) Pefer to BCSI - Guide to Good Practice for Handling, and all provided in the least including diagonal bracing.

13) SEE BČŠI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING

10/4/2021

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MORRIS INTERIOR DE LA CONTROL WATONS IDENTIFY DESIGN parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded continued on page 2. The page 2. The page 2. The page 2. The page 3. The page of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive Madison WI 53719

Job	Truss	Truss Type	Qty	Ply	49786-0223 WOODGROVE FUQUAY VARINA, NC
21-5978-R01	R04	Common	1	1	Job Reference (optional) # 28820

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:31 2021 Page 2 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-GKv7rYRA5?6WGrTiu6CZawae_VFqN5ULoJ013tyWm7k

LOAD CASE(S) Standard





8.430 s Feb 12 2021 MITek Industries, Inc. Mon Oct 4 15:48:34 2021 Page 1 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-hvbGUaU3OwU58JBHZEmGBZB9GiHiaJAnUHEhgCyWm7h 39-4-8 0-4-8 19-6-0 25-10-13 32-3-11 39-0-0 13-1-3 6-4-13 6-4-13 6-4-13 6-4-13 6-8-5

> Scale = 1:77.9 7x6 ||

5 6.00 12 4x4 = 40 4x4 < 41 5x6 / 5x6 > ST 3 N3 R 8 13 4445 12 43 46 16 42 14 1147 48 10 15 4x6 = 4x8 = 4x6 = 4x6 = 4x6 = 4x8 || NAILED 4x8 ||

5x8 =

<u> </u>	9-3-13 9-3-13 13-0-8 3-8-11		0-6-4 -0-8 29-8-3 9-1-15	9-3 9-3	
Plate Offsets (X,Y) [2:0-0	0-0,0-1-9], [2:0-2-13,0-4-8], [3:0-3-0,0-	3-0], [5:0-3-1,0-3-8], [7:0)-3-0,0-3-0], [8:0-0-0,0-1-9], [8:0)-2-13,0-4-8]	
LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCDL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.90 BC 0.46 WB 0.69 Matrix-SH	DEFL. in (loc) Vert(LL) -0.10 10-12 Vert(CT) -0.16 10-12 Horz(CT) 0.01 8	l/defl L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 244/190 Weight: 345 lb FT = 20%

NAILEDNAILED

LUMBER-

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

2x4 SP No 3 OTHERS

WEDGE

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

BRACING-

TOP CHORD **BOT CHORD** WFBS

Structural wood sheathing directly applied or 5-3-8 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

6-12, 5-13, 4-13 1 Row at midpt

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 0-3-8.

(lb) - Max Horz 2=120(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 15 except 13=-158(LC 12)

Max Grav All reactions 250 lb or less at joint(s) except 2=567(LC 32), 13=2069(LC 1), 8=696(LC 20), 15=301(LC 5)

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

2-3=-687/72, 3-4=-447/80, 4-40=0/425, 5-40=0/579, 5-41=0/373, 6-7=-751/118, TOP CHORD

7-8=-962/110

2-16=-121/523, 13-45=-320/179, 45-46=-320/179, 12-46=-320/179, 11-12=-27/316,

11-47=-27/316, 47-48=-27/316, 10-48=-27/316, 8-10=-34/760

WEBS 5-12=-65/749, 6-12=-780/175, 6-10=-28/629, 7-10=-328/143, 5-13=-1317/65,

4-13=-747/189, 4-16=-52/532, 3-16=-341/145

(15-18)

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; 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
- PROFESSION OF THE PROPERTY OF 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

5) Unbalanced snow loads have been considered for this design.

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 2-0-0 oc.

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

- 10) * This truss has been designed for a live load or 30.0psi on the bottom chord and any other members, with BCDL = 10.0psf.

 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 15 except (jt=lb).
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

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14WINING COOLINANGS) PRESIDENCE AND INTEREST AND INTEREST. Continued on page 2 vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	49786-0223 WOODGROVE FUQUAY VARINA, NC
21-5978-R01	R05	GABLE	1	1	Job Reference (optional) # 28820

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:34 2021 Page 2 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-hvbGUaU3OwU58JBHZEmGBZB9GiHiaJAnUHEhgCyWm7h

- 15) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 16) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

17) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

18) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

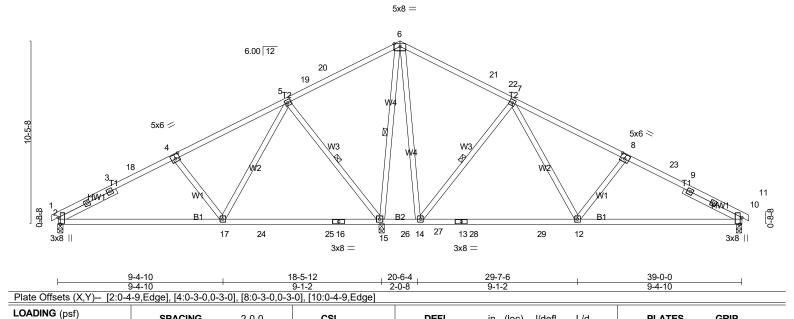
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-60, 5-9=-60, 2-8=-20 Concentrated Loads (lb)

Vert: 15=-70(F) 43=-70(F) 44=-70(F)



Job Truss Truss Type Qtv 49786-0223 WOODGROVE | FUQUAY VARINA, NC 21-5978-R01 R06 Common # 28820 ob Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:36 2021 Page 1 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-dlj0vGVJwYkpNcLghfokH_HVvWtV2Dg4xbjol4yWm7f 19-6-0 25-10-13 32-3-11 39-0-0 39-4-8 0-4-8 6-8-5 6-4-13 6-4-13 6-4-13 6-8-5

Scale = 1:65.7



LUMBER-

TCLL (roof)

Snow (Pf)

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No 3 WFBS

20.0

20.0

10.0

10.0

0.0

SLIDER Left 2x4 SP No.3 - 3-8-8, Right 2x4 SP No.3 - 3-8-8

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

BRACING-

TOP CHORD **BOT CHORD** WFBS

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

in (loc)

0.03

-0.35 12-14

-0.48 12-14

10

I/defl

>713

>513

n/a

Structural wood sheathing directly applied or 5-3-15 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing. 7-14, 6-15, 5-15 1 Row at midpt

I/d

240

180

n/a

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

PLATES

Weight: 226 lb

MT20

GRIP

244/190

FT = 20%

REACTIONS. (lb/size) 2=584/0-3-8 (min. 0-1-8), 15=1897/0-3-8 (min. 0-2-6), 10=684/0-3-8 (min. 0-1-8)

2-0-0

1.15

1.15

YES

CSI

TC

вс

WB 0.69

Matrix-SH

0.76

0.89

Max Hórz 2=-120(LC 15)

Max Uplift2=-51(LC 14), 15=-68(LC 14), 10=-83(LC 15) Max Grav 2=631(LC 21), 15=2037(LC 3), 10=742(LC 22)

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

TOP CHORD 2-3=-808/79, 3-18=-726/81, 4-18=-696/95, 4-5=-578/106, 5-19=0/364, 19-20=0/386,

6-20=0/493, 6-21=-5/289, 7-8=-806/158, 8-23=-921/154, 9-23=-945/140, 9-10=-1033/137 2-17=-134/649, 13-14=0/402, 13-28=0/402, 28-29=0/402, 12-29=0/402, 10-12=-70/846

WEBS 6-14=-82/763, 7-14=-771/173, 7-12=-22/608, 8-12=-350/142, 6-15=-1278/63,

5-15=-773/174, 5-17=-26/611, 4-17=-362/146

NOTES-(11-14)

BOT CHORD

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-4-8 to 4-5-2, Interior(1) 4-5-2 to 14-8-6, Exterior(2R) 14-8-6 to 24-3-10, Interior(1) 24-3-10 to 34-6-14, Exterior(2E) 34-6-14 to 39-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

6) All plates are 4x4 MT20 unless otherwise indicated.

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

7) This truss has been designed for a live load of 30.0psi on the School 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, 15, 10.

10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced chools are considered ANSI/TPI 1.

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10/4/2021

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for all more continued on page 2 continued on page 2 vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer — not truss designer or truss engineer. Bracing shown is for lateral support vertically. Applicability of the arcsetor. Additional permanent bracing of the overall structure is the of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	49786-0223 WOODGROVE FUQUAY VARINA, NC
21-5978-R01	R06	Common	6	1	Job Reference (optional) # 28820

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:36 2021 Page 2 ID:S0DkwN1yMlVZ5gm8RpTodcyYtsg-dlj0vGVJwYkpNcLghfokH_HYvWtV2Dg4xbjol4yWm7f

- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced
- 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the

13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

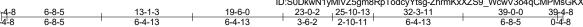
14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

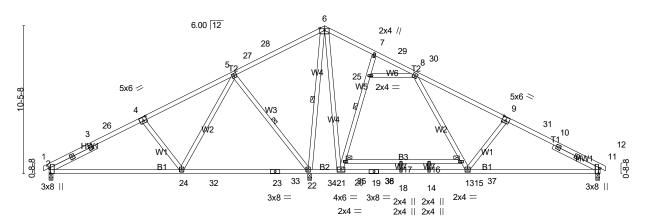






5x8 =

Scale = 1:81.5



	0 1 10	10012	2001 211010	40 10 10 20 1 0	00 0 0	
	9-4-10	9-1-2	2-0-8 4-4-9	2-0-0 2-8-9	9-4-10	1
Plate Offsets (X,Y) [2:0-	4-9,Edge], [4:0-3-0,0-3-0], [9:	0-3-0,0-3-4], [11:0-4-9,Edge]				
TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 *	Plate Grip DOL 1. Lumber DOL 1.	D-0 CSI. 15 TC 0.83 15 BC 0.93 ES WB 0.97 114 Matrix-SH	DEFL. Vert(LL) Vert(CT Horz(CT	in (loc) I/de -0.52 14-18 >47) -0.84 14-18 >29 () 0.03 11 n	72 240 M 92 180 n/a n/a	ATES GRIP T20 244/190 eight: 244 lb FT = 20%

20-6-4

LUMBER-

TOP CHORD 2x4 SP SS *Except*

T1: 2x4 SP No.2

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

W5: 2x4 SP SS, W2: 2x4 SP No.2

SLIDER Left 2x4 SP No.3 - 3-8-8, Right 2x4 SP No.3 - 3-8-8

9-4-10

BRACING-

TOP CHORD BOT CHORD WFBS

24-10-13 26-10-13 29-7-6

Structural wood sheathing directly applied or 4-3-4 oc purlins. Rigid ceiling directly applied or 2-2-0 oc bracing.

30_0_0

1 Row at midpt 7-20, 6-22, 5-22

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=643/0-3-8 (min. 0-1-8), 22=1899/0-3-8 (min. 0-2-10), 11=792/0-3-8 (min. 0-1-8)

Max Horz 2=120(LC 14)

Max Uplift2=-58(LC 14), 11=-71(LC 15)

Max Grav 2=670(LC 21), 22=2247(LC 3), 11=846(LC 22)

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

TOP CHORD 2-3=-887/103, 3-26=-803/106, 4-26=-776/119, 4-5=-659/131, 5-27=0/284, 27-28=0/306,

6-28=0/399, 6-7=-259/182, 7-29=0/330, 29-30=0/300, 8-30=0/271, 8-9=-1097/126,

9-31=-1180/130, 10-31=-1214/115, 10-11=-1305/111 2-24=-145/718, 24-32=-47/271, 32-33=-47/271, 23-33=-47/271, 22-23=-47/271,

21-36=0/402, 19-36=0/402, 18-19=0/402, 14-18=0/402, 14-37=0/402, 13-37=0/402,

11-13=-52/1105

6-21=-73/1555, 20-21=-1128/137, 20-25=-1005/180, 7-25=-848/155, 8-15=0/848,

13-15=-27/767, 9-13=-473/172, 6-22=-1617/0, 5-22=-780/174, 5-24=-26/603,

4-24=-349/145. 8-25=-514/78

(11-14)

BOT CHORD

WEBS

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS piate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min configuration.

18-5-12

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15), F1-20.0 psf (Lein: D-1) Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 4) Unbalanced snow loads have been considered for this design.
 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 6) All plates are 4x4 MT20 unless otherwise indicated.
 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced

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10/4/2021

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual outloing component to on manage and component of component of page 2.

Vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer — not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	49786-0223 WOODGROVE FUQUAY VARINA, NO	0
21-5978-R01	R07	Common	2	1	Job Reference (optional)	# 28820

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:38 2021 Page 2 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-ZhrmKxXZS9_WcwV3o4qCMPMsGKXKW2nNPvCvpzyWm7d

- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the

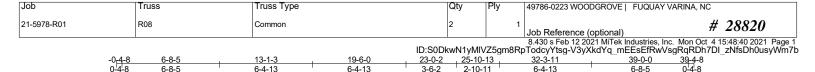
13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





3-6-2

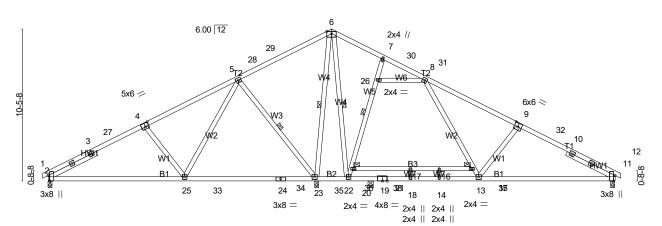
6-4-13

2-10-11



6-8-5

6-4-13



├	9-4-10 9-4-10		0-6-4 22-4-0 24-10-1326-10-13 29-7-6 -0-8 1-9-12 2-6-13 2-0-0 2-8-9	39-0-0 9-4-10	—
Plate Offsets (X,Y) [2:0-4	4-9,Edge], [4:0-3-0,0-3-0], [9:0-3-0,0	-3-4], [11:0-4-9,Edge]			
LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.77 BC 0.90 WB 0.90 Matrix-SH	DEFL. in (loc) l/defl Vert(LL) -0.29 23-25 >765 Vert(CT) -0.51 11-13 >395 Horz(CT) 0.02 11 n/a	240 MT 180 n/a	ATES GRIP F20 244/190 eight: 244 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP SS *Except*

T1: 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* B2: 2x4 SP SS

WFBS 2x4 SP No.3 *Except*

W5: 2x4 SP SS

SLIDER Left 2x4 SP No.3 - 3-8-8, Right 2x4 SP No.3 - 3-8-8 BRACING-

TOP CHORD BOT CHORD WFBS

Structural wood sheathing directly applied or 5-2-11 oc purlins. Rigid ceiling directly applied or 3-1-0 oc bracing.

6-22, 7-20, 6-23, 5-23 1 Row at midpt

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 0-3-8.

(lb) - Max Horz 2=120(LC 18)

Max Uplift All uplift 100 lb or less at joint(s) 2, 11 except 23=-103(LC 14)

Max Grav All reactions 250 lb or less at joint(s) except 2=658(LC 21), 23=1466(LC 1), 11=727(LC 22), 21=1117(LC

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

 $2 - 3 = -861/105, \ 3 - 27 = -778/107, \ 4 - 27 = -749/121, \ 4 - 5 = -632/132, \ 5 - 28 = 0/315, \ 28 - 29 = 0/337, \ 3 - 27 = -778/107, \ 4 - 27 = -749/121, \ 4 - 5 = -632/132, \ 5 - 28 = 0/315, \ 28 - 29 = 0/337, \ 3 - 27 = -778/107, \ 4 - 27 = -749/121, \ 4 - 5 = -632/132, \ 5 - 28 = 0/315, \ 28 - 29 = 0/337, \ 3 - 27 = -778/107, \ 4 - 27 = -749/121, \ 4 - 5 = -632/132, \ 5 - 28 = 0/315, \ 28 - 29 = 0/337, \ 3 - 27 = -778/107, \ 4 - 27 = -749/121, \ 4 - 5 = -632/132, \ 5 - 28 = 0/315, \ 28 - 29 = 0/337, \ 3 - 27 = -778/107, \ 4 - 27 = -749/121, \ 4 - 5 = -632/132, \ 5 - 28 = 0/315, \ 28 - 29 = 0/337, \ 3 - 27 = -778/107, \ 4 - 27 = -749/121, \ 4 - 5 = -632/132, \ 5 - 28 = 0/315, \ 28 - 29 = 0/337, \ 3 - 27 = -778/107, \ 4 - 27 = -749/121, \ 4 - 5 = -632/132, \ 5 - 28 = 0/315, \ 28 - 29 = 0/337, \ 3 - 27 = -778/107, \ 4 - 27 = -749/121, \ 4 - 5 = -632/132, \ 5 - 28 = 0/315, \ 28 - 29 = 0/337, \ 3 - 27 = -778/107, \ 4 - 27 = -749/121, \ 4 - 5 = -632/132, \ 5 - 28 = 0/315, \ 28 - 29 = 0/337, \ 3 - 27 = -778/107, \ 4 - 27 = -749/121, \ 4 - 2$ TOP CHORD

6-29=0/430, 6-7=-62/331, 7-30=0/609, 30-31=0/581, 8-31=0/551, 8-9=-759/161,

6-4-13

9-32=-860/165, 10-32=-934/149, 10-11=-1009/146

BOT CHORD 2-25=-147/696, 23-35=-260/107, 35-36=-260/107, 22-36=-260/107, 11-13=-82/843 WEBS 6-22=-214/416, 20-22=-964/151, 20-26=-960/188, 7-26=-817/160, 8-15=-1/720,

13-15=-36/661, 9-13=-487/170, 6-23=-629/92, 5-23=-776/175, 5-25=-27/594,

4-25=-353/144, 17-18=-342/0, 8-26=-442/84

(11-14)

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS piate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min seef the control of the c

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15), F1-20.0 psf (LE: Lum DOL=1.16), F1-20.0 psf (LE: Lum D
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11 except (jt=lb) 23=103.

10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced

10/4/2021

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William Manual M

Walking of the best of the bes of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	49786-0223 WOODGROVE FUQUAY VARINA, NO	C
21-5978-R01	R08	Common	2	1	Job Reference (optional)	# 28820

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:41 2021 Page 2 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-zGWvyzZSI4M5TNEdTCOvz1_NRXZXjQdp5sRZQIyWm7a

- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the
- 13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





5x8 =

8.430 s Feb 12 2021 MTek Industries, Inc. Mon Oct 4 15:48:43 2021 Page 1 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-weefNfbiGhcpjhN0bdQN3S3i1LFNBKv6YAwgUAyWm7Y 25-10-13 19-6-0 23-0-2 32-3-11 39-0-0 39-4-8 0-4-8 6-8-5 6-4-13 6-4-13 3-6-2 2-10-11 6-4-13 6-8-5

Scale = 1:81.5

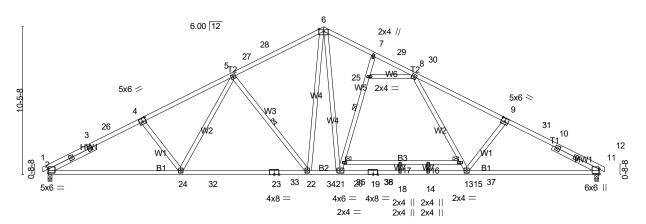
39-0-0

Structural wood sheathing directly applied or 2-2-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

7-20. 5-22

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer



	9-4-10	9-1-2 2-0	-8 ' 4-4-9	2-0-0 2-8-9	9-4-10	1
Plate Offsets (X,Y) [2:0-	0-0,0-3-1], [4:0-3-0,0-3-0], [9:0-3-0,0-3	-0]				
CADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.83 BC 0.94 WB 0.91 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT		L/d 240 180 n/a	PLATES GRIP MT20 244/190 Weight: 244 lb FT = 20%

BRACING-

WFBS

TOP CHORD

BOT CHORD

24-10-13 26-10-13 29-7-6

1 Row at midpt

Installation guide.

I UMBER-

TOP CHORD 2x4 SP SS BOT CHORD 2x4 SP SS *Except* B3: 2x4 SP No.2

2x4 SP No.3 *Except* WFBS

W5: 2x4 SP SS, W2: 2x4 SP No.2

SLIDER Left 2x4 SP No.3 - 3-8-8, Right 2x4 SP No.3 - 3-8-8

REACTIONS. (lb/size) 2=1643/0-3-8 (min. 0-2-1), 11=1691/0-3-8 (min. 0-2-3)

Max Horz 2=120(LC 18)

Max Uplift2=-57(LC 14), 11=-32(LC 15) Max Grav 2=1747(LC 3), 11=1853(LC 3)

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

2-3=-3145/130, 3-26=-3061/133, 4-26=-30/34/147, 4-5=-2947/158, 5-27=-2323/152, 27-28=-2294/156, 6-28=-2235/178, 6-7=-2454/189, 7-29=-1987/127, 29-30=-2009/122, TOP CHORD

8-30=-2045/120, 8-9=-3179/102, 9-31=-3273/98, 10-31=-3300/82, 10-11=-3381/80

2-24=-143/2680, 24-32=-45/2383, 32-33=-45/2383, 23-33=-45/2383, 22-23=-45/2383

22-34=0/1943, 34-35=0/1943, 21-35=0/1943, 21-36=0/2294, 19-36=0/2294, 18-19=0/2294,

14-18=0/2294, 14-37=0/2294, 13-37=0/2294, 11-13=-30/2901

WEBS 6-21=-71/1546, 20-21=-1019/143, 20-25=-945/182, 7-25=-792/157, 8-15=0/715,

13-15=-30/662, 9-13=-384/179, 6-22=-98/616, 5-22=-731/174, 5-24=-26/477,

4-24=-252/145, 8-25=-498/77

(11-14)

BOT CHORD

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS piate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min configuration.

18-5-12

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15), F1-20.0 psf (Lein: D-1) Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 4x4 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1

William Manual M 28147 NOINE K. MORR

10/4/2021

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is not an increased and in the second of t of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	49786-0223 WOODGROVE FUQUAY VARINA, NC	
21-5978-R01	R09	Common	1	1	Job Reference (optional) # 28820	

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:43 2021 Page 2 ID:S0DkwN1yMlVZ5gm8RpTodcyYtsg-weefNfbiGhcpjhN0bdQN3S3i1LFNBKv6YAwgUAyWm7Y

- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the

13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

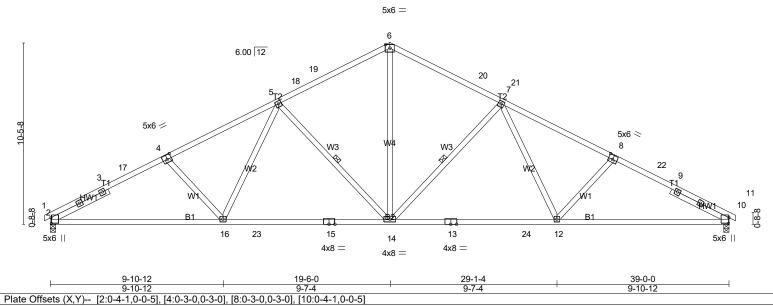
14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



Job Truss Truss Type Qtv 49786-0223 WOODGROVE | FUQUAY VARINA, NC 21-5978-R01 R10 Common # 28820 lob Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:45 2021 Page 1 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-s1mQoLcyoJsXy?XPi2Sr8t92U8zjfK?P0UPnZ3yWm7W 39-0-0 -0-4-86-8-5 19-6-0 25-10-13 32-3-11 39-4-8 0-4-8 6-8-5 6-4-13 6-4-13 6-4-13 6-4-13 6-8-5 Scale = 1:66.3



DEFL.

BRACING-

WFBS

TOP CHORD

BOT CHORD

Vert(LL)

Vert(CT)

Horz(CT)

in (loc)

0.12

-0.38 12-14

-0.60 12-14

10

1 Row at midpt

Installation guide.

I/defl

>999

>776

n/a

I/d

240

180

n/a

Structural wood sheathing directly applied or 2-2-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

7-14. 5-14

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

LUMBER-

LOADING (psf)

TCLL (roof)

Snow (Pf)

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.1 *Except* B2: 2x4 SP SS

20.0

20.0

10.0

10.0

0.0

WERS 2x4 SP No 3

SLIDER Left 2x4 SP No.3 - 3-8-8, Right 2x4 SP No.3 - 3-8-8

REACTIONS. (lb/size) 2=1583/0-3-8 (min. 0-1-14), 10=1582/0-3-8 (min. 0-1-14)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Horz 2=120(LC 14)

Max Uplift2=-87(LC 14), 10=-87(LC 15)

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

TOP CHORD 2-3=-2791/183, 3-17=-2708/199, 4-17=-2681/212, 4-5=-2588/216, 5-18=-1894/208,

2-0-0

1.15

1.15

YES

18-19=-1865/213, 6-19=-1814/234, 6-20=-1814/234, 20-21=-1865/213, 7-21=-1894/208,

7-8=-2588/216, 8-22=-2681/212, 9-22=-2708/199, 9-10=-2791/183 2-16=-199/2373, 16-23=-101/2062, 15-23=-101/2062, 14-15=-101/2062, 13-14=-75/2062,

BOT CHORD 13-24=-75/2062, 12-24=-75/2062, 10-12=-127/2373

WEBS 6-14=-74/1341, 7-14=-753/171, 7-12=-11/489, 8-12=-271/142, 5-14=-753/171, 5-16=-11/489, 4-16=-271/142

NOTES-(11-14)

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ff; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-4-8 to 4-5-2, Interior(1) 4-5-2 to 14-8-6, Exterior(2R) 14-8-6 to 24-3-10, Interior(1) 24-3-10 to 34-6-14, Exterior(2E) 34-6-14 to 39-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI

TC

вс

WB 0.56

Matrix-SH

0.83

0.76

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough

Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

6) All plates are 4x4 MT20 unless otherwise indicated.

6) All plates are 4x4 Mil 20 diliber at 10.0 psf bottom chord live load nonconcurrent with an example 3-6-0 tall by 1-u-u wide value 10.1 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 1-u-u wide value 10.0 psf.

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

10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced at a capable of trust and trust are capable of trust at large 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced at large 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced at large 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced at large 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced 2018 International R802.10.2 and R8

ROFESO, OROFESO, MORRIS INTERIOR DE LA CONTROL NOINEE

PLATES

Weight: 213 lb

MT20

GRIP

244/190

FT = 20%

10/4/2021

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be instance and roaded continued on page 2 vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	49786-0223 WOODGROVE FUQUAY VARINA, NC
21-5978-R01	R10	Common	9	1	Job Reference (optional) # 28820

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:45 2021 Page 2 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-s1mQoLcyoJsXy?XPi2Sr8t92U8zjfK?P0UPnZ3yWm7W

- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the

13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



Job Truss Truss Type Qtv 49786-0223 WOODGROVE | FUQUAY VARINA, NC 21-5978-R01 R11 Roof Special # 28820 lob Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:46 2021 Page 1 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-KDJo?gdaZc?Oa96bGiz4g5hCxYGSOhkYE88K5VyWm7V -0-4-8 0-4-8 13-0-10 19-6-0 32-8-4 39-0-0 39-4-8 0-4-8 26-1-2 6-5-6 6-5-6 6-7-2 6-7-2 6-3-12 Scale = 1:66.8

5x6 = 5 6.00 12 19 4x4 🥢 20^{4x6} 8 17 **T**3 4x8 < 5x6 / 4x8 < 3 10 B3 11 7x12 MT20HS || 15 22 14 23 2412 13 4x6 = 4x8 = 7x6 = 4x8 = 3.00 12 39-0-0 8-11-14 10-6-2 7-2-0 6-0-4 6-3-12 Plate Offsets (X,Y)-- [2:Edge,0-4-0], [3:0-3-0,0-3-0], [7:0-4-0,Edge], [9:0-0-11,0-2-5], [11:0-5-11,0-3-8]

LOADING (psf) SPACING-2-0-0 CSI TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.92 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.92 **TCDL** 10.0 WB 0.91 Rep Stress Incr YES **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-SH **BCDL** 10.0

BRACING-TOP CHORD BOT CHORD

WFBS

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

in (loc)

0.23

-0.30 13-15

-0.53 13-15

Structural wood sheathing directly applied. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

I/d

240

180

n/a

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

2-2-0 oc bracing: 9-11.

I/defl

>999

>874

n/a

4-13, 6-13, 8-12 1 Row at midpt

REACTIONS. (lb/size) 2=1580/0-3-8 (min. 0-1-14), 9=1580/0-3-8 (min. 0-1-13) Max Horz 2=-123(LC 15)

Max Uplift2=-88(LC 14), 9=-88(LC 15)

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

2-16=-2824/185, 3-16=-2719/201, 3-4=-2649/219, 4-17=-1843/205, 17-18=-1806/210, 5-18=-1765/231, 5-19=-1765/231, 19-20=-1806/209, 6-20=-1845/204, 6-7=-2306/220,

7-8=-2363/193, 8-21=-4793/299, 9-21=-4917/284

BOT CHORD 2-15=-193/2397, 15-22=-103/2017, 14-22=-103/2017, 13-14=-103/2017, 13-23=-66/2033,

23-24=-66/2033, 12-24=-66/2033, 11-12=-220/4355, 9-11=-221/4359

WEBS 4-15=-22/580, 4-13=-738/175, 5-13=-68/1283, 6-13=-770/165, 6-12=0/380, 8-12=-2520/186,

8-11=-46/2195

LUMBER-

WFBS

WEDGE

Left: 2x4 SP No.3

TOP CHORD 2x4 SP No.2 *Except*

BOT CHORD 2x6 SP No 2

T4: 2x6 SP No.2

2x4 SP No.3

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-4-8 to 4-5-2, Interior(1) 4-5-2 to 14-8-6, Exterior(2R) 14-8-6 to 24-3-10, Interior(1) 24-3-10 to 34-6-14, Exterior(2E) 34-6-14 to 39-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

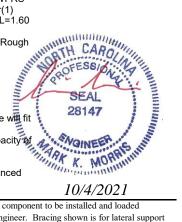
6) All plates are MT20 plates unless otherwise indicated.

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

7) This truss has been designed for a live load of 30.0psf on the bottom chord in all areas which are between the bottom chord and any other members, with BCDL = 10.0psf.

9) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of the capable of withstanding 100 lb uplift at joint(s) 2, 9.

11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



PLATES

MT20HS

Weight: 249 lb

MT20

GRIP

244/190

187/143

FT = 20%

10/4/2021

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Job	Truss	Truss Type	Qty	Ply	49786-0223 WOODGROVE FUQUAY VARINA, NC
21-5978-R01	R11	Roof Special	3	1	Job Reference (optional) # 28820

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:47 2021 Page 2 ID:S0DkwN1yMlVZ5gm8RpTodcyYtsg-oPtAC0eDKw7FBlhnqTUJDIENhych78_hToutdyyWm7U

- 12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

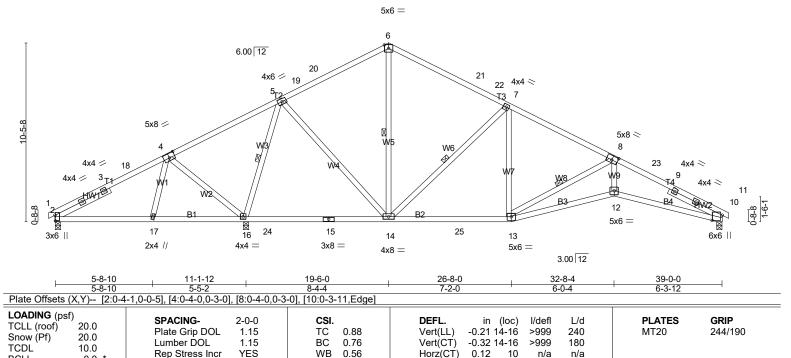
OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



Job Truss Truss Type Qtv 49786-0223 WOODGROVE | FUQUAY VARINA, NC 21-5978-R01 R12 Roof Special # 28820 lob Reference (optional) 8.430 s Feb 12 2021 MITek Industries, Inc. Mon Oct 4 15:48:48 2021 Page 1 ID:S0DkwN1yMlVZ5gm8RpTodcyYtsg-GcRYQMer5DF6pSG_OA0YmWnZ5M?LshfriSdRAOyWm71 39-0-0 19-6-0 32-8-4 39-4-8 0-4-8 -0-4-8 0-4-8 6-8-5 13-1-3 26-8-0 6-8-5 6-4-13 6-4-13 7-2-0 6-0-4 6-3-12

Scale = 1:67.3



LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No 3 WFBS

0.0

10.0

SLIDER Left 2x4 SP No.3 - 3-7-2, Right 2x4 SP No.3 - 3-6-3 BRACING-

Matrix-SH

TOP CHORD **BOT CHORD** WFBS

Horz(CT)

0.12

10

n/a

Structural wood sheathing directly applied or 2-2-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt 5-16, 6-14, 7-14, 8-13

n/a

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

Weight: 224 lb

FT = 20%

REACTIONS. (lb/size) 2=15/0-3-8 (min. 0-1-8), 10=959/0-3-8 (min. 0-1-8), 16=2189/0-3-8 (min. 0-2-10)

YES

Max Horz 2=121(LC 18)

Max Uplift2=-208(LC 37), 10=-89(LC 15), 16=-48(LC 14) Max Grav 2=205(LC 34), 10=985(LC 22), 16=2213(LC 3)

Rep Stress Incr

Code IRC2018/TPI2014

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

TOP CHORD 2-3=0/649. 3-18=0/648. 4-18=0/694. 4-5=0/1018. 5-19=-490/153. 19-20=-451/157.

6-20=-385/178, 6-21=-388/176, 21-22=-447/154, 7-22=-504/147, 7-8=-1077/164,

8-23=-2399/206, 9-23=-2471/194, 9-10=-2568/189

BOT CHORD 2-17=-560/127, 16-17=-583/115, 16-24=-401/119, 15-24=-401/119, 14-15=-401/119,

14-25=-25/926, 13-25=-25/926, 12-13=-128/2176, 10-12=-130/2219

WEBS 4-16=-558/129, 5-16=-1766/119, 5-14=0/1080, 7-14=-822/162, 7-13=0/397, 8-13=-1367/152,

8-12=-4/1159

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

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph, TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-4-8 to 4-5-2, Interior(1) 4-5-2 to 14-8-6, Exterior(2R) 14-8-6 to 24-3-10, Interior(1) 24-3-10 to 34-6-14, Exterior(2E) 34-6-14 to 39-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

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

7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

8) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 16 except (jt=lb) 2=208

10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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10/4/2021

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for all more parameters and proper incorporation of component is responsibility of building designer — not truss designer or truss engineer. Bracing shown is for lateral support vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer — not truss designer or truss engineer. Bracing shown is for lateral support vertically. Additional permanent bracing of the overall structure is the -Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	49786-0223 WOODGROVE FUQUAY VARINA, NC
21-5978-R01	R12	Roof Special	4	1	Job Reference (optional) # 28820

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:49 2021 Page 2 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-ko?xdifTsXNzRcrAxuXnljJkrlLab8u_x6N_iqyWm7S

- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced
- 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the

13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

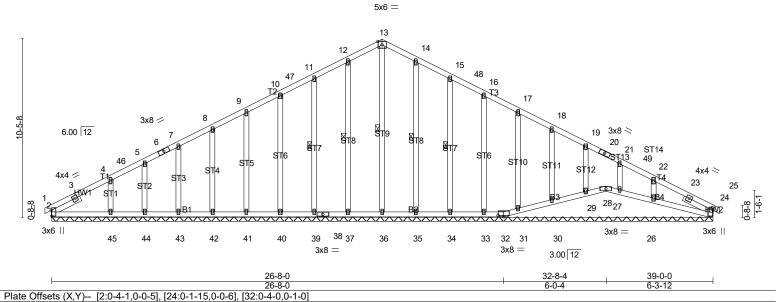


Job Truss Truss Type 49786-0223 WOODGROVE | FUQUAY VARINA, NC 21-5978-R01 R13 Roof Special Supported Gable # 28820 Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:51 2021 Page 1 ID:S0DkwN1yMIVZ5gm8RpTodcyYtsg-hB7h2OhjO8dggw?Y3JZFN8PFuZ9q379HOQs5mjyWm7Q 39-0-0

-0-4-8 0-4-8 19-6-0 39-4-8 0-4-8 19-6-0 19-6-0

Scale = 1:67.9



LOADING (psf) SPACING-2-0-0 CSI. TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.14 Snow (Pf)

20.0 Lumber DOL 1.15 вс 0.13 10.0 WB 0.13 Rep Stress Incr YES 0.0 Code IRC2018/TPI2014 Matrix-SH 10.0

DEFL. in (loc) I/defl I/d Vert(LL) 0.00 25 n/r 180 Vert(CT) 0.00 25 n/r 80 Horz(CT) 0.01 24 n/a n/a

PLATES GRIP MT20 244/190

Weight: 268 lb FT = 20%

LUMBER-

SLIDER

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 OTHERS 2x4 SP No 3

Left 2x4 SP No.3 - 1-11-0, Right 2x4 SP No.3 - 1-11-5

BRACING-

WFBS

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

13-36, 12-37, 11-39, 14-35, 15-34 1 Row at midpt

REACTIONS. All bearings 39-0-0

(lb) - Max Horz 2=121(LC 18)

Max Uplift All uplift 100 lb or less at joint(s) 32, 37, 39, 40, 41, 42, 43, 44, 45, 35, 34, 33, 31, 30, 29, 27, 26,

Max Grav All reactions 250 lb or less at joint(s) 32, 28, 24, 40, 41, 42, 43, 44, 33, 31, 30, 29, 27, 2 except 36=254(LC 27), 37=289(LC 5), 39=276(LC 5), 45=270(LC 34), 35=288(LC 6), 34=280(LC 6), 26=265(LC 35)

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

TOP CHORD 12-13=-144/258, 13-14=-144/258

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) '0-4-8 to 4-5-2, Exterior(2N) 4-5-2 to 14-8-6, Corner(3R) 14-8-6 to 24-3-10, Exterior(2N) 24-3-10 to 34-6-14, Corner(3E) 34-6-14 to 39-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

5) Unbalanced snow loads have been considered for this design.

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.

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

- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 37, 39, 40, 41 42 43, 44, 45, 35, 34, 33, 31, 30, 29, 27, 26, 2.

13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 28, 31, 30, 29, 27, 26, 2.

14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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10/4/2021

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is not an increased and in the second of t of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	49786-0223 WOODGROVE FUQUAY VARINA, NC	
21-5978-R01	R13	Roof Special Supported Gable	1	1	Job Reference (optional) # 28820	

8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Oct 4 15:48:52 2021 Page 2 ID:S0DkwN1yMlVZ5gm8RpTodcyYtsg-9Nh3GkiL9SlXI4ald04UwMxQdzV3oaPRd4beJ9yWm7P

- 15) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 16) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the

17) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

18) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

