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 #: 44165

JOB: 24-0267-R01

JOB NAME: LOT 92 PROVIDENCE CREEK

Wind Code: 37

Wind Speed: Vult= 120mph

Exposure Category: B

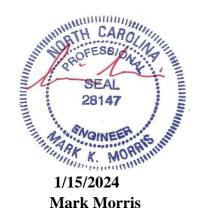
Mean Roof Height (feet): 35

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

19 Truss Design(s)

Trusses:

R01, R02, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13, SP01, SP02, VT01, VT02, VT03, VT04



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

Truss Type Job Truss LOT 92 PROVIDENCE CREEK | 45 DAVINHALL DRIVE FUQUAY-VARINA, NO 24-0267-R01 R01 Common Supported Gable # 44165 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MTek Industries, Inc. Tue Jan 16 08:35:09 2024 Page 1 ID:c_P6kT8h891B1fTkFc0OgMyzUGu-wpqjAODtbM2ai5XE2T87jTtdChGnoGFS2uXCe_zurdm 12-4-8 -0-10-8 5-9-0 11-6-0 0-10-8 5-9-0 5-9-0 0-10-8 Scale = 1:27.1 4x4 = 5 7.00 12 6 8 P 3 18 17 3x4 || 3x4 || STA ŵ ฆ่า 16 15 14 13 12 11 10 3x4 || 3x4 || 11-6-0 11-6-0 LOADING (psf) GRIP SPACING-CSI. DEFL. PLATES 2-0-0 I/defl L/d (loc) TCLL (roof) 20.0 244/190 Plate Grip DOL 1.15 TC 0.12 Vert(LL) -0.00 ģ n/r 180 MT20 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.06 Vert(CT) -0.009 n/r 80 **TCDL** 10.0 Rep Stress Incr YES WB 0.05 Horz(CT) -0.0010 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 61 lb FT = 20% Matrix-R BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except BOT CHORD 2x4 SP No.3 end verticals. WFBS 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing 2x4 SP No.3 **OTHERS** MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer Installation guide

REACTIONS. All bearings 11-6-0.

(lb) - Max Horz 16=-113(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11

Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 15, 11 except 14=255(LC 21), 12=255(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=120mph (3-second gust) Vasd=95mph, TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-9-0, Corner(3R) 3-9-0 to 7-9-0, Corner(3E) 7-9-0 to 12-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

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

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

12) * 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 🔊 🛚 fit between the bottom chord and any other members.

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 11.



Job	Truss	Truss Type	Qty	Ply	LOT 92 PROVIDENCE CREEK 45 [DAVINHALL DRIVE FUQUAY-VARINA, N
24-0267-R01	R01	Common Supported Gable	1	1	Job Reference (optional)	# 44165

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- 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.



Job Truss Truss Type LOT 92 PROVIDENCE CREEK | 45 DAVINHALL DRIVE FUQUAY-VARINA, NC 24-0267-R01 R02 DUAL RIDGE GABLE # 44165 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 08:35:10 2024 Page 1 ID:c_P6kT8h891B1fTkFc0OgMyzUGu-O?O5OkEWMgARKF6QbAgMFhPjH5XJXdybHXHmAQzurdI -0-10-8 0-10-8 10-0-0 20-0-0 5-9-0 20-10-8 0-10-8 4-3-0 10-0-0 Scale = 1:44.0 4x4 = 5 6 7.00 12 3x6 / 25 24 8 5x6 / 3x4 || 10 STB 11 W2 B1 € 18 19 20 3x4 II 3x6 =3x4 || 4x4 = 17 16 15 14 13 12 11-6-0 20-0-0 5-9-0 5-9-0 8-6-0 Plate Offsets (X,Y)-- [2:0-2-9,0-2-8] LOADING (psf) DEFL. **PLATES** GRIP SPACING-2-0-0 CSI. in (loc) I/defl I/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.42 Vert(LL) -0.02 19-20 >999 240 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.30 Vert(CT) -0.05 19-20 >999 180 TCDL 10.0 WB 0.41 Rep Stress Incr YES Horz(CT) 0.01 12 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 FT = 20% Matrix-SH Weight: 126 lb **BCDL** 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except BOT CHORD 2x4 SP No.2 end verticals 2x4 SP No.3 **BOT CHORD** WFBS Rigid ceiling directly applied or 10-0-0 oc bracing. JOINTS 1 Brace at Jt(s): 21, 23 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer REACTIONS. All bearings 8-9-8 except (jt=length) 20=0-3-8, 17=0-3-8. (lb) - Max Horz 20=-167(LC 12) Max Uplift All uplift 100 lb or less at joint(s) 20, 16, 15, 14, 12 except 13=-127(LC 15) Max Grav All reactions 250 lb or less at joint(s) 16, 14, 13, 17 except 20=695(LC 21), 15=276(LC 22), 12=338(LC FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-24=-777/84, 3-24=-598/87, 3-4=-330/78, 6-7=-263/66, 9-10=-272/28, 2-20=-641/114, 10-12=-277/6 BOT CHORD 19-20=-162/286, 18-19=-69/600, 17-18=-69/600, 16-17=-69/600 WEBS 3-23=-456/134, 21-23=-488/144, 21-22=-460/131, 16-22=-487/142, 2-19=0/440 NOTES-(10-13)1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 5-2-6, Exterior(2R) 5-2-6 to 14-9-10, Interior(1) 14-9-10 to 16-0-0, Exterior(2E) 16-0-0 to 20-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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 2x4 MT20 unless otherwise indicated.

6) All plates are 2x4 M120 utilies 5.....
7) This truss has been designed for a 10.0 psf bottom chord live load 10.0.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a recently 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) 20, 16, 15, 14, 12 are filtered.

Job	Truss	Truss Type	Qty	Ply	LOT 92 PROVIDENCE CREEK 45 D	AVINHALL DRIVE FUQUAY-VARINA, N
24-0267-R01	R02	DUAL RIDGE GABLE	1	1	Job Reference (optional)	# 44165

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- 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 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 MINIMUM BRACING REQUIREMENTS
- 13) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRĂCINĞ 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.



.lob Truss Truss Type Qtv LOT 92 PROVIDENCE CREEK | 45 DAVINHALL DRIVE FUQUAY-VARINA, NO 24-0267-R01 R03 Common # 44165 Job Reference (optional) 30 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 08:35:11 2024 Page 1 ID:c_P6kT8h891B1fTkFc0OgMyzUGu-sByTb4F87zIIyPhd9uBbouythUjlG1ikWB0Jjszurdk 70-10-8 0-10-8 10-0-0 14-10-4 5-1-12 20-0-0 5-1-12 4-10-4 4-10-4 h-10-8 Scale = 1:42.4 4x4 = 4 7.00 12 4x4 / 4x4 < 3 3x4 II 3x4 || 6 W 10 9 ล 5x8 = 3x6 =3x6 =10-0-0 20-0-0 10-0-0 10-0-0 Plate Offsets (X,Y)-- [9:0-4-0,0-3-4] LOADING (psf) DEFL. GRIP SPACING-2-0-0 CSI. in (loc) I/defl I/d **PLATES** TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.50 Vert(LL) -0.199-10 >999 240 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.96 Vert(CT) -0.38 9-10 >630 180 **TCDL** 10.0 WB 0.63 Rep Stress Incr YES Horz(CT) 0.03 8 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 114 lb FT = 20% Matrix-SH **BCDL** 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-3-13 oc purlins, except BOT CHORD 2x4 SP No.2 end verticals 2x4 SP No 3 BOT CHORD WFBS Rigid ceiling directly applied or 2-2-0 oc bracing MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. REACTIONS. (lb/size) 10=850/0-3-8 (min. 0-1-8), 8=850/0-3-8 (min. 0-1-8) Max Horz 10=-167(LC 12) Max Uplift10=-110(LC 14), 8=-110(LC 15) Max Grav 10=894(LC 21), 8=894(LC 22) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-308/79. 3-4=-853/128. 4-5=-853/128. 5-6=-307/78. 2-10=-322/107. 6-8=-321/107 **BOT CHORD** 9-10=-134/854 8-9=-64/854 4-9=-33/494, 5-9=-286/176, 3-9=-286/176, 3-10=-853/89, 5-8=-853/89 WFBS NOTES-(9-12)1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 5-0-3, Exterior(2R) 5-0-3 to 14-11-13, Interior(1) 14-11-13 to 16-0-14, Exterior(2E) 16-0-14 to 20-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

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

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

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

10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the

11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling

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.

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 fit between the bottom chord and any other members.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=10, 8=110.

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.

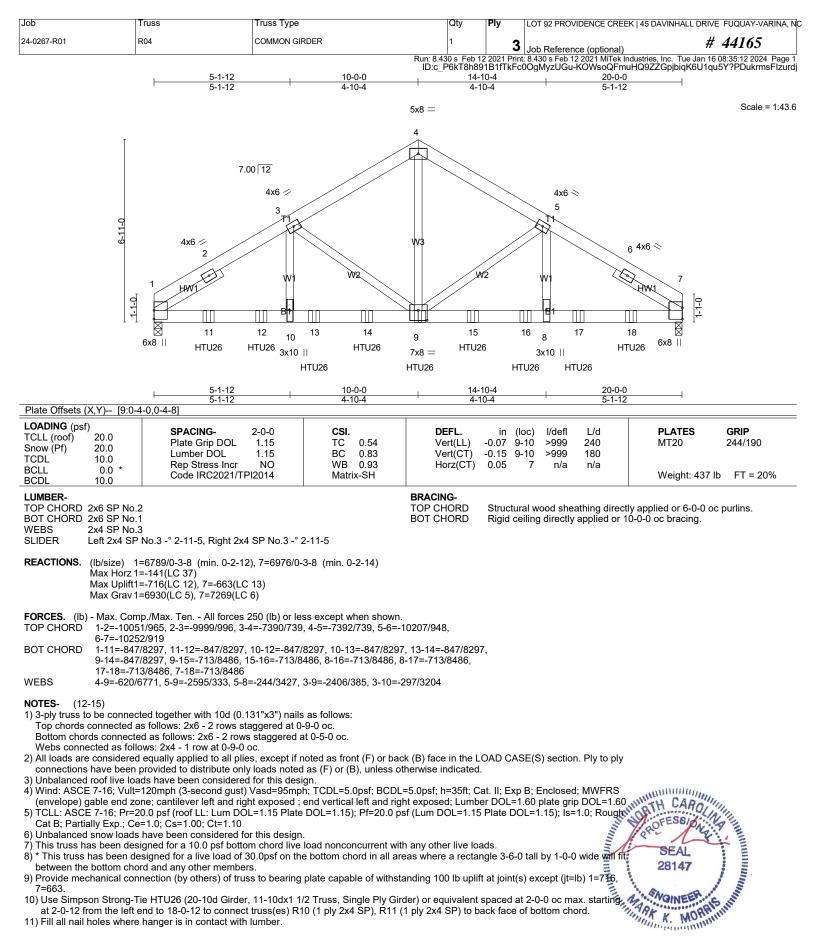
Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

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. 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 12) 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

Job	Truss	Truss Type	Qty	Ply	LOT 92 PROVIDENCE CREEK 45 DAVINHALL DRIVE FUQUAY-VARINA, NC
24-0267-R01	R03	Common	3	1	Job Reference (optional) # 44165
					: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 08:35:11 2024 Page 2 fTkFc0OgMyzUGu-sByTb4F87zIIyPhd9uBbouythUjlG1ikWB0Jjszurdk

LOAD CASE(S) Standard

SEAL 28147



Job	Truss	Truss Type	Qty	Ply	LOT 92 PROVIDENCE CREEK 45	DAVINHALL DRIVE FUQUAY-VARINA, N
24-0267-R01	R04	COMMON GIRDER	1	3	Job Reference (optional)	# 44165

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- 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

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 1-7=-20

Concentrated Loads (lb)

Vert: 9=-1371(B) 11=-1286(B) 12=-1286(B) 13=-1371(B) 14=-1371(B) 15=-1371(B) 16=-1371(B) 17=-1371(B) 18=-1371(B)



.lob Truss Truss Type LOT 92 PROVIDENCE CREEK | 45 DAVINHALL DRIVE FUQUAY-VARINA, NC 24-0267-R01 R05 GABLE # 44165 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MTek Industries, Inc. Tue Jan 16 08:35:13 2024 Page 1 ID:c_P6kT8h891B1fTkFc0OgMyzUGu-oa3E0mGOfaY0Bjr?HJD3tJ1BGIWzk421zVVQnlzurdi -0-10-8 0-10-8 5-0-0 Scale = 1:13.4 3 2x4. 4.00 12 W1 0-6-5 3x4 =2x4 ||

TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.63 BC 0.49 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.01 1 n/r 180 Vert(CT) 0.01 1 n/r 80 Horz(CT) 0.00 4 n/a n/a	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2021/TPI2014	Matrix-P	, ,	Weight: 19 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 5-0-0 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=189/5-0-0 (min. 0-1-8), 2=251/5-0-0 (min. 0-1-8) Max Horz 2=70(LC 13)

Max Uplift4=-40(LC 14), 2=-63(LC 10) Max Grav 4=253(LC 21), 2=344(LC 21)

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

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) 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) Gable requires continuous bottom chord bearing.
- 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.

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

.lob Truss Truss Type LOT 92 PROVIDENCE CREEK | 45 DAVINHALL DRIVE FUQUAY-VARINA, NC 24-0267-R01 R06 Monopitch # 44165 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MTek Industries, Inc. Tue Jan 16 08:35:13 2024 Page 1 ID:c_P6kT8h891B1fTkFc0OgMyzUGu-oa3E0mGOfaY0Bjr?HJD3tJ18wISFk3F1zVVQnIzurdi -0-10-8 0-10-8 13-0-0 6-1-12 6-10-4 Scale = 1:28.4 3x4 || 4 4.00 12 3x4 = 3 W3 ⊕ B1 6 5 3x4 =3x4 =2x4 || 3x8 II 13-0-0 5-8-8 6-10-4 Plate Offsets (X,Y)-- [2:0-0-0,0-1-1], [2:0-2-10,Edge] LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSI. DEFL. (loc) I/defl I/d in TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.78 Vert(LL) 0.08 2-6 >893 240 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.73 Vert(CT) -0.095-6 >856 180 **TCDL** 10.0 WB 0.12 Rep Stress Incr YES Horz(CT) -0.005 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-SH Weight: 62 lb FT = 20%**BCDL** 10.0 LUMBER-BRACING-Structural wood sheathing directly applied or 6-0-0 oc purlins, except TOP CHORD 2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 end verticals 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WFBS WEDGE MiTek recommends that Stabilizers and required cross bracing Left: 2x4 SP No.3 be installed during truss erection, in accordance with Stabilizer Installation guide. (lb/size) 5=225/Mechanical, 6=595/0-3-8 (min. 0-1-8), 2=258/0-3-8 (min. 0-1-8) REACTIONS. Max Horz 2=170(LC 11) Max Uplift5=-53(LC 14), 6=-168(LC 10), 2=-103(LC 10) Max Grav 5=310(LC 21), 6=689(LC 21), 2=258(LC 1)

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

WEBS 3-6=-534/180

CONSIDERATIONS.

NOTES-(9-12)

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 8-0-10 Exterior(2E) 8-0-10 to 12-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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.

* 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

- 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.

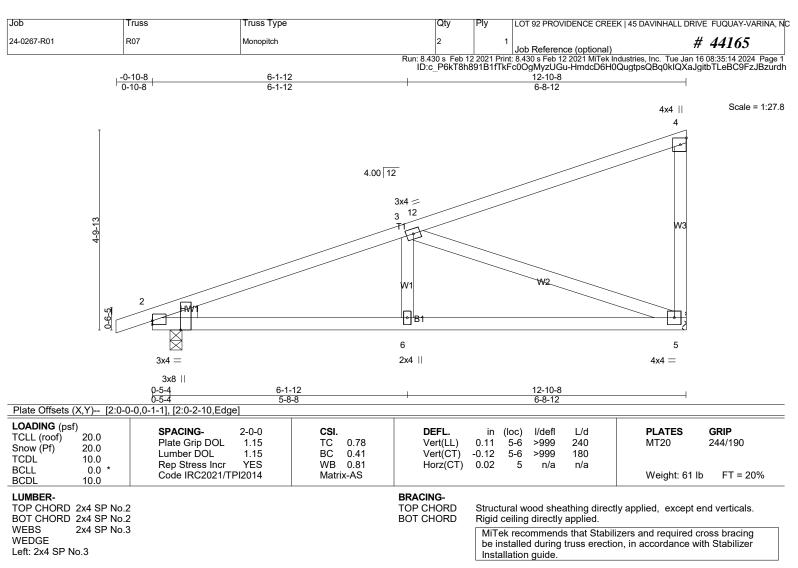
 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=168 2=103.

 9) 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) 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.

 11) 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.

 12) 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.



REACTIONS. (lb/size) 5=487/Mechanical, 2=584/0-3-8 (min. 0-1-8)

Max Horz 2=170(LC 13)

Max Uplift5=-200(LC 10), 2=-223(LC 10)

Max Grav 5=615(LC 21), 2=627(LC 21)

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

TOP CHORD 2-3=-963/669. 4-5=-257/71 **BOT CHORD** 2-6=-589/875, 5-6=-589/875 WEBS 3-6=-266/251, 3-5=-873/664

NOTES-(10-13)

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 7-11-2 Exterior(2E) 7-11-2 to 12-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=200
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum

non-concurrent with other live loads.
This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
*This truss has been designed for a live load of 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.
Refer to girder(s) for truss to truss connections.
Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=205, 2=223.
This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Job	Truss	Truss Type	Qty	Ply	LOT 92 PROVIDENCE CREEK 45 DAVIN	NHALL DRIVE FUQUAY-VARINA, N
24-0267-R01	R07	Monopitch	2	1	Job Reference (optional)	# 44165

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 08:35:14 2024 Page 2 ID:c_P6kT8h891B1fTkFc0OgMyzUGu-HmdcD6H0QugtpsQBq0klQXaJgitbTLeBC9FzJBzurdh

- 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
- 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 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.



.lob Truss Truss Type LOT 92 PROVIDENCE CREEK | 45 DAVINHALL DRIVE FUQUAY-VARINA, NC 24-0267-R01 R08 GABLE # 44165 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 08:35:14 2024 Page 1 ID:c_P6kT8h891B1fTkFc0OgMyzUGu-HmdcD6H0QugtpsQBq0klQXaRhivJTW9BC9FzJBzurdh -<u>0-10-8</u> 12-10-8 0-10-8 12-10-8 Scale = 1:27.6 3x4 || 7 6 4.00 12 5 4 13 3 8 ЬT 0-6-5 12 11 10 9 3x4 =3x4 ||

LOADING (psf) SPACING-GRIP CSI. DEFL. PLATES 2-0-0 I/defl L/d (loc) TCLL (roof) 20.0 244/190 Plate Grip DOL 1.15 TC 0.26 Vert(LL) -0.00 n/r 180 MT20 Snow (Pf) 20.0 вс Lumber DOL 1.15 0.30 Vert(CT) 0.01 n/r 80 **TCDL** 10.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 8 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 63 lb FT = 20% Matrix-SH BCDL 10.0

LUMBER-

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

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.

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

REACTIONS. All bearings 12-10-8.

(lb) - Max Horz 2=169(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 8, 2, 9, 10, 11, 12

Max Grav All reactions 250 lb or less at joint(s) 8, 2, 9, 10, 11 except 12=397(LC 1)

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

3-12=-277/246

NOTES-(12-15)

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Exterior(2N) 3-11-2 to 7-11-2, Corner(3E) 7-11-2 to 12-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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) 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 2x4 MT20 unless otherwise indicated.

- 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

6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
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 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2, 9, 10, 11, 12
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

Job	Truss	Truss Type	Qty	Ply	LOT 92 PROVIDENCE CREEK 45 DAVINHALL DRIVE FUQUAY-VARINA, NC
24-0267-R01	R08	GABLE	1	1	Job Reference (optional) # 44165

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 08:35:15 2024 Page 2 ID:c_P6kT8h891B1fTkFc0OgMyzUGu-lzB_RSleBCokQ0?OOkFXyk6cR6FYCzPKRp_Wsdzurdg

LOAD CASE(S) Standard



1/15/2024

Job Truss Truss Type LOT 92 PROVIDENCE CREEK | 45 DAVINHALL DRIVE FUQUAY-VARINA, NC 24-0267-R01 R09 GABLE # 44165 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 08:35:16 2024 Page 1 ID:c_P6kT8h891B1fTkFc0OgMyzUGu-D9IMeoJGyVwb2AaayRmmVyfqLVegxOvTfTk4O4zurdf 16-8-0 33-0-8 16-8-0 16-4-8 Scale = 1:59.8 4x6 = 6.00 12 11 12 10 13 **T**2 42 14 3x8 / 15 3x8 ≥ 7 16 6 17 ⁴³18 ST6 STE 19 3x4 || 3x4 || 20 1-1-12 0-0-39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 3x4 || 3x8 =4x8 =3x4 || 33-0-8 33-0-8 Plate Offsets (X,Y)-- [27:0-3-8,0-1-4] LOADING (psf) DEFL. **PLATES** GRIP SPACING-2-0-0 CSI. in (loc) I/defl I/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.13 Vert(LL) -0.00n/r 180 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.11 Vert(CT) -0.00 n/r 80 TCDL 10.0 WB 0.25 Rep Stress Incr YES Horz(CT) 0.00 21 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 220 lb FT = 20% Matrix-R **BCDL** 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except BOT CHORD 2x4 SP No.3 end verticals 2x4 SP No 3 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. WFBS 2x4 SP No 3 OTHERS WFBS 1 Row at midpt 11-30 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer REACTIONS. All bearings 33-0-8 (lb) - Max Horz 39=126(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 39, 21, 31, 32, 33, 35, 36, 37, 29, 28, 27, 25, 24, 23, 22 except 38=-110(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 39, 21, 33, 35, 36, 37, 38, 27, 25, 24, 23, 22 except 30=279(LC 27), 31=290(LC 5), 32=276(LC 5), 29=290(LC 6), 28=276(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 8-41=-106/253, 9-41=-98/261, 9-10=-125/306, 10-11=-142/343, 11-12=-142/343, 12-13=-125/306, 13-42=-98/261, 14-42=-106/253

NOTES-(14-17)

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Exterior(2N) 3-11-2 to 11-10-6, Corner(3R) 11-10-6 to 21-5-10, Exterior(2N) 21-5-10 to 28-1-2, Corner(3E) 28-1-2 to 32-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

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

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

12) *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 bottom chord and any other members, with BCDL = 10.0psf.

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 39, 21, 31, 32, 33, 35 , 36, 37, 29, 28, 27, 25, 24, 23, 22 except (jt=lb) 38=110.

SEAL 28147

Ae wift MARK MORRISHMAN K. MORRISMMAN STATE AND ADMINISTRATION OF THE PROPERTY OF Continuing by period assign 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.

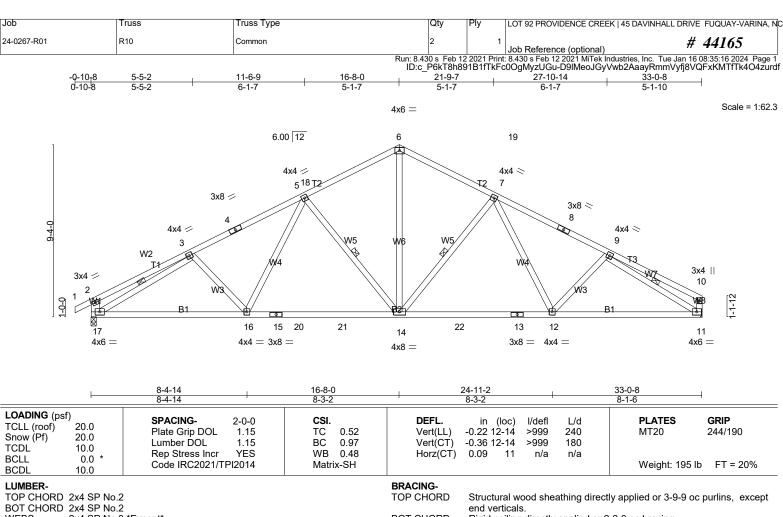
Job	Truss	Truss Type	Qty	Ply	LOT 92 PROVIDENCE CREEK 45 DAVIN	HALL DRIVE FUQUAY-VARINA, N
24-0267-R01	R09	GABLE	1	1	Job Reference (optional)	# 44165

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- 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.





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

W1: 2x6 SP No.2

BOT CHORD

Rigid ceiling directly applied or 2-2-0 oc bracing. WFBS 5-14, 7-14, 3-17, 9-11 1 Row at midpt

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

REACTIONS. (lb/size) 17=1374/0-3-8 (min. 0-1-10), 11=1306/Mechanical

Max Hórz 17=127(LC 13)

Max Uplift17=-179(LC 14), 11=-156(LC 15)

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

TOP CHORD 2-3=-376/96, 3-4=-1942/301, 4-5=-1876/318, 5-18=-1467/305, 6-18=-1460/328,

6-19=-1459/328, 7-19=-1467/305, 7-8=-1852/316, 8-9=-1920/299, 2-17=-364/118

BOT CHORD 16-17=-292/1703, 15-16=-175/1546, 15-20=-175/1546, 20-21=-175/1546, 14-21=-175/1546,

14-22=-149/1535, 13-22=-149/1535, 12-13=-149/1535, 11-12=-199/1657

5-16=-28/341, 5-14=-593/205, 6-14=-154/1035, 7-14=-574/203, 7-12=-26/318,

3-17=-1758/233, 9-11=-1844/257

(10-13)NOTES-

WEBS

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-10-6, Exterior(2R) 11-10-6 to 21-5-10, Interior(1) 21-5-10 to 28-0-2, Exterior(2E) 28-0-2 to 32-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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

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

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

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=179

Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
Unbalanced snow loads have been considered for this design.
This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
* This truss has been designed for a live load of 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.
Refer to girder(s) for truss to truss connections.
Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=179, 11=156.

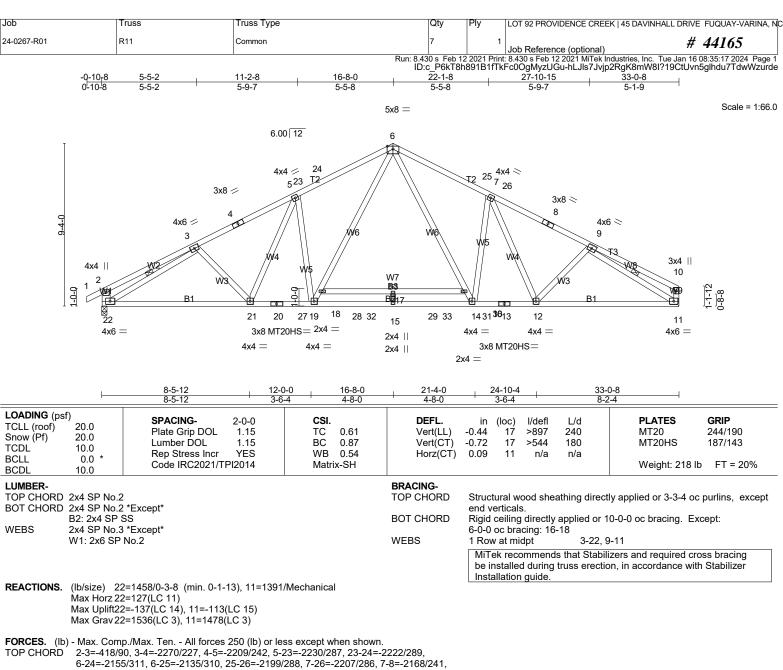
Job	Truss	Truss Type	Qty	Ply	LOT 92 PROVIDENCE CREEK 45	DAVINHALL DRIVE FUQUAY-VARINA, N
24-0267-R01	R10	Common	2	1	Job Reference (optional)	# 44165

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 08:35:16 2024 Page 2 ID:c_P6kT8h891B1fTkFc0OgMyzUGu-D9lMeoJGyVwb2AaayRmmVyfj8VQFxKMTfTk4O4zurdf

- 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 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 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.





8-9=-2230/226, 9-10=-277/51, 2-22=-389/116

BOT CHORD 21-22=-229/1970, 20-21=-97/1968, 20-27=-97/1968, 19-27=-97/1968, 19-28=0/1476,

15-28=0/1476, 15-29=0/1476, 29-30=0/1476, 14-30=0/1476, 14-31=-69/1946, 13-31=-69/1946, 12-13=-69/1946, 11-12=-139/1906

WEBS 5-19=-539/239, 18-19=-174/933, 6-18=-136/1033, 6-16=-134/993, 14-16=-171/893,

7-14=-517/237, 3-22=-1989/168, 9-11=-2077/193

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-10-6, Exterior(2R) 11-10-6 to 21-5-10, Interior(1) 21-5-10 to 28-0-4, Exterior(2E) 28-0-4 to 32-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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.
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.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=137, 11=113. Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-10-6,

, 11=113.

Job	Truss	Truss Type	Qty	Ply	LOT 92 PROVIDENCE CREEK 45 DAV	INHALL DRIVE FUQUAY-VARINA, N
24-0267-R01	R11	Common	7	1	Job Reference (optional)	# 44165

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MITek Industries, Inc. Tue Jan 16 08:35:17 2024 Page 2 ID:c_P6kT8h891B1fTkFc0OgMyzUGu-hLJls7Jvjp2RgK8mW8l?19CtUvn5glhdu7TdwWzurde

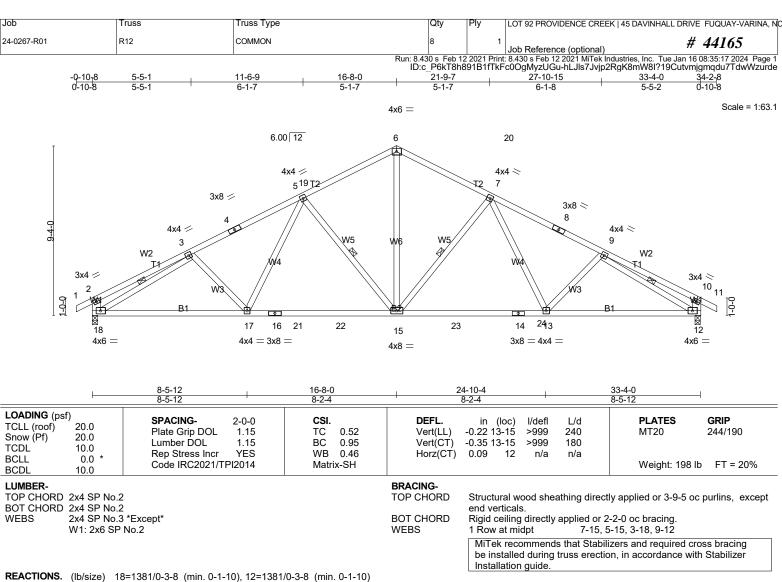
- 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the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

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.





REACTIONS.

Max Horz 18=121(LC 13)

Max Uplift18=-179(LC 14), 12=-179(LC 15)

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

TOP CHORD 2-3=-377/95, 3-4=-1950/302, 4-5=-1883/319, 5-19=-1477/307, 6-19=-1470/330,

6-20=-1470/330, 7-20=-1477/307, 7-8=-1883/319, 8-9=-1950/302, 9-10=-377/95,

2-18=-365/118, 10-12=-365/118

17-18=-285/1716, 16-17=-167/1556, 16-21=-167/1556, 21-22=-167/1556, 15-22=-167/1556. **BOT CHORD**

15-23=-124/1556, 23-24=-124/1556, 14-24=-124/1556, 13-14=-124/1556, 12-13=-178/1706

6-15=-156/1046, 7-15=-594/205, 7-13=-27/340, 5-15=-594/205, 5-17=-27/340,

3-18=-1763/237, 9-12=-1763/237

NOTES-(9-12)

WEBS

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-10-6, Exterior(2R) 11-10-6 to 21-5-10, Interior(1) 21-5-10 to 29-4-14, Exterior(2E) 29-4-14 to 34-2-8 zone; cantilever left and right exposed : end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=179 12=179.

SEAL 28147

15/202

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Job	Truss	Truss Type	Qty	Ply	LOT 92 PROVIDENCE CREEK 4	5 DAVINHALL DRIVE FUQUAY-VARINA, N
24-0267-R01	R12	COMMON	8	1	Job Reference (optional)	# 44165

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- 9) 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) 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.
- 11) 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.
 12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- 12) SEE BCSI-B3 SUMMARY SHEET- PERMANEÑŤ RESTRAING/BRÁCING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENT 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.



Job Truss Truss Type LOT 92 PROVIDENCE CREEK | 45 DAVINHALL DRIVE FUQUAY-VARINA, NC 24-0267-R01 R13 Common Supported Gable # 44165 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MTek Industries, Inc. Tue Jan 16 08:35:18 2024 Page 1 ID:c_P6kT8h891B1fTkFc0OgMyzUGu-9Yt73TKXU7AIHUjz3spEaNkAyJJAPHPm7nDBSyzurdd 16-8-0 33-4-0 34-2-8 0-10-8 16-8-0 16-8-0 Scale = 1:60.5 4x6 = 6.00 12 11 10 12 13 T2 43 14 8 3x8 / 15 3x8 ≥ 16 6 17 18 44 19 3x4 || 3x4 || ²⁰21 1-0-0 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 3x4 || 3x8 =3x8 =3x4 || 33-4-0 LOADING (psf) GRIP SPACING-CSI DEFL. PLATES 2-0-0 I/defl L/d (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.12 Vert(LL) -0.00 20 n/r 180 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.11 Vert(CT) -0.0021 n/r 80 TCDL 10.0 Rep Stress Incr YES WB 0.25 Horz(CT) 0.00 22 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 223 lb Matrix-R FT = 20% BCDL 10.0 BRACING-LUMBER-Structural wood sheathing directly applied or 6-0-0 oc purlins, except TOP CHORD 2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.3 end verticals. WFBS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. 2x4 SP No.3 **OTHERS** WFBS 1 Row at midpt 11-31 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. REACTIONS. All bearings 33-4-0.

- Max Horz 40=120(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 40, 22, 32, 33, 34, 36, 37, 38, 30, 29, 28, 26, 25, 24, 23 except

Max Grav All reactions 250 lb or less at joint(s) 40, 22, 34, 36, 37, 38, 39, 28, 26, 25, 24, 23 except 31=278(LC 27), 32=290(LC 5), 33=276(LC 5), 30=290(LC 6), 29=276(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 8-42=-104/250, 9-42=-96/258, 9-10=-123/304, 10-11=-140/341, 11-12=-140/341, 12-13=-123/304, 13-43=-96/258, 14-43=-104/250

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Exterior(2N) 3-11-2 to 11-10-6, Corner(3R) 11-10-6 to 21-5-10, Exterior(2N) 21-5-10 to 29-4-14, Corner(3E) 29-4-14 to 34-2-8 zone; cantilever left and right exposed end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 SEAL 28147

e will Money K. MORRISHING MORRI 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

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

11) 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

fit between the bottom chord and any other members, with BCDL = 10.0psf.

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40, 22, 32, 33, 34, 36 , 37, 38, 30, 29, 28, 26, 25, 24, 23 except (jt=lb) 39=106.

Job	Truss	Truss Type	Qty	Ply	LOT 92 PROVIDENCE CREEK 4	5 DAVINHALL DRIVE FUQUAY-VARINA, N
24-0267-R01	R13	Common Supported Gable	1	1	Job Reference (optional)	# 44165

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- 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.



Job Truss Truss Type LOT 92 PROVIDENCE CREEK | 45 DAVINHALL DRIVE FUQUAY-VARINA, NC 24-0267-R01 SP01 Common Supported Gable # 44165 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 08:35:18 2024 Page 1 ID:l8799bTYYbxotYa75q2Yk9yieyH-9Yt73TKXU7AIHUjz3spEaNk2NJAFPJYm7nDBSyzurdd 12-10-8 6-0-0 12-0-0 -0-10-8 0-10-8 6-0-0 6-0-0 0-10-8 Scale = 1:21.6 4x4 =3 2x4 || 5.00 12 2x4 || 12 11 Por ST 0-6-11 13 14 6 2x4 || 2x4 || 2x4 || 3x6 = 3x6 < 11-10-0 12-0-0 0-2-0 11-8-0 Plate Offsets (X,Y)-- [2:0-0-10,0-1-8], [4:0-0-10,0-1-8]

LOADING (psf) SPACING-2-0-0 CSI. TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.60 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.68 TCDL 10.0 WB 0.11 Rep Stress Incr YES **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-SH **BCDL** 10.0

Vert(CT) -0.05 4-6 >999 Horz(CT) 0.01 n/a

0.04

in (loc)

4-6

I/defl

>999

I/d

240

180

n/a

PLATES GRIP MT20 244/190

Weight: 58 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 2x4 SP No.3 **OTHERS**

BRACING-

TOP CHORD BOT CHORD

DEFL.

Vert(LL)

Structural wood sheathing directly applied or 5-5-5 oc purlins. Rigid ceiling directly applied or 9-3-9 oc bracing.

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

REACTIONS. (lb/size) 2=529/0-4-0 (min. 0-1-8), 4=529/0-4-0 (min. 0-1-8)

Max Horz 2=-38(LC 15)

Max Uplift2=-117(LC 10), 4=-117(LC 11) Max Grav 2=623(LC 21), 4=623(LC 22)

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

TOP CHORD 2-11=-770/724, 3-11=-629/735, 3-12=-629/735, 4-12=-770/724 **BOT CHORD** 2-13=-578/589, 6-13=-578/589, 6-14=-578/589, 4-14=-578/589

3-6=-393/296 WFBS

(11)

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Corner(3R) 3-11-2 to 8-0-14, Corner(3E) 8-0-14 to 12-10-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) 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

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) 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

10) Provide mechanical connection (by others) of truss to bearing place and trust live loads.

11) * This truss has been designed for a 10.0 psf bottom chord live loads.

12) * This truss has been designed for a 10.0 psf bottom chord live loads.

Job Truss Truss Type LOT 92 PROVIDENCE CREEK | 45 DAVINHALL DRIVE FUQUAY-VARINA, NC 24-0267-R01 SP02 Common # 44165 Job Reference (optional) Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MTek Industries, Inc. Tue Jan 16 08:35:19 2024 Page 1 ID:l8799bTYYbxotYa75q2Yk9yieyH-dkRVGpL9FQl9vel9dZKT6aHD2jXi8mnwLRyk?Ozurdc 12-10-8 6-0-0 12-0-0 -0-10-8 0-10-8 6-0-0 6-0-0 0-10-8 Scale = 1:21.6 4x4 =3 5.00 12 W1 9 10 6 2x4 || 3x6 = 3x6 < 11-10-0 12-0-0 0-2-0 5-10-0 5-10-0 Plate Offsets (X,Y)--[2:0-0-10,0-1-8], [4:0-0-10,0-1-8] LOADING (psf) **PLATES** GRIP SPACING-2-0-0 CSI. DEFL. in (loc) I/defl I/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) -0.034-6 >999 240 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.60 Vert(CT) -0.05 4-6 >999 180 TCDL 10.0

BCDL LUMBER-

BCLL

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

0.0

10.0

BRACING-

TOP CHORD BOT CHORD

Horz(CT)

0.01

n/a

n/a

Structural wood sheathing directly applied or 5-4-14 oc purlins. Rigid ceiling directly applied or 9-6-0 oc bracing.

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

Weight: 54 lb

FT = 20%

REACTIONS. (lb/size) 2=530/0-3-8 (min. 0-1-8), 4=530/0-3-8 (min. 0-1-8)

Rep Stress Incr

Code IRC2021/TPI2014

YES

Max Horz 2=-38(LC 15)

Max Uplift2=-117(LC 10), 4=-117(LC 11) Max Grav 2=624(LC 21), 4=624(LC 22)

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

TOP CHORD 2-7=-775/690, 3-7=-633/701, 3-8=-633/701, 4-8=-775/690 **BOT CHORD** 2-9=-559/594, 6-9=-559/594, 6-10=-559/594, 4-10=-559/594

WFBS 3-6=-379/297

(9)

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 8-0-14, Exterior(2E) 8-0-14 to 12-10-8 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB 0.11

Matrix-SH

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.

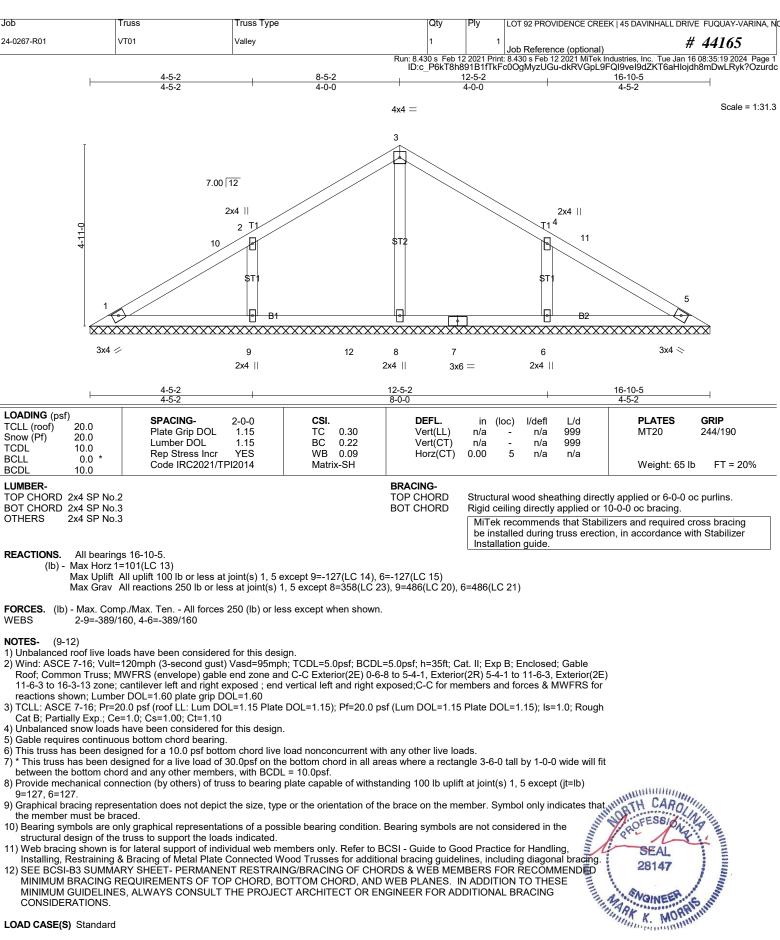
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

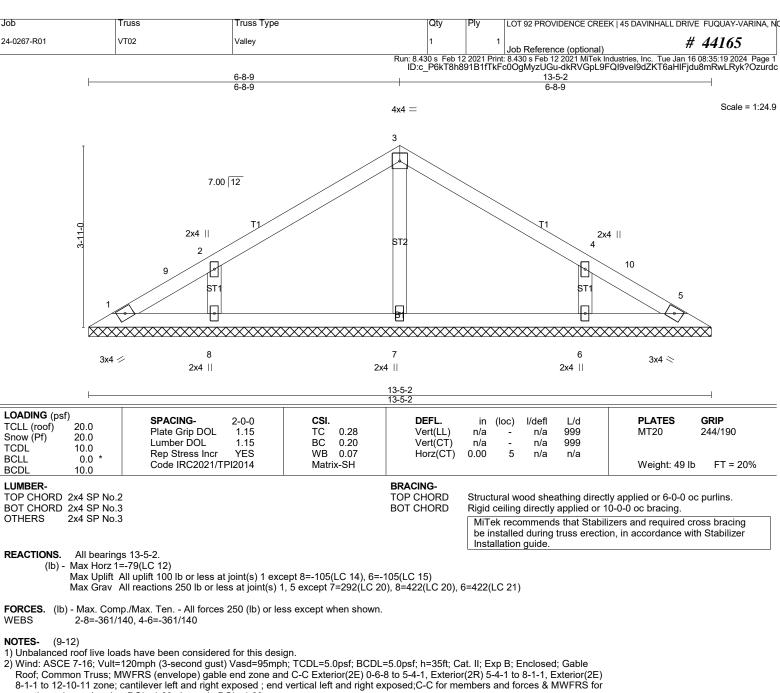
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=117
4=117.

LOAD CASE(S) Standard

SEAL
28147





NOTES-

- 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) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) 1 except (jt=lb) 8=105,

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=105, 6=105.

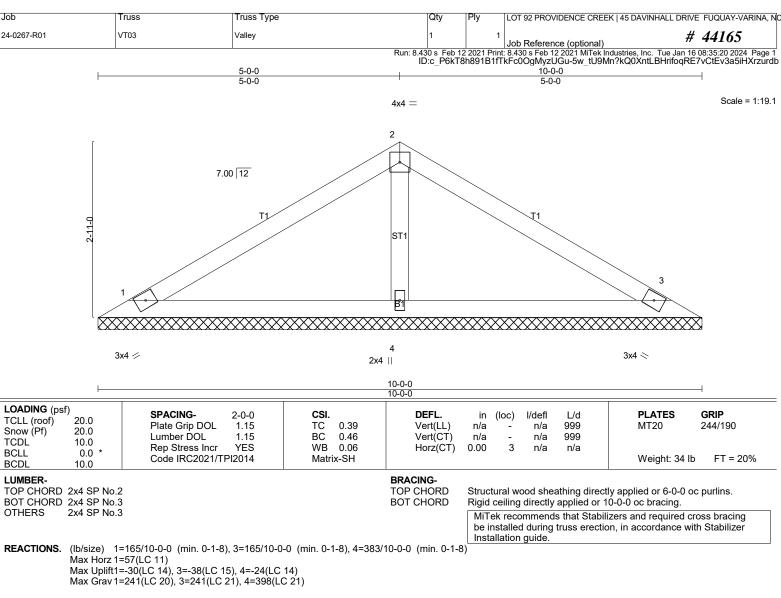
 9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.

 10) 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.

 11) 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.

 12) 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



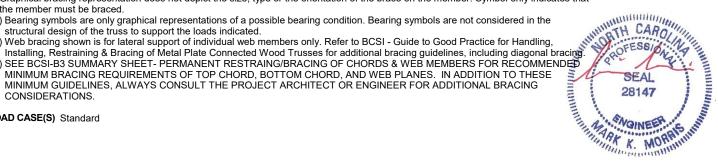
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

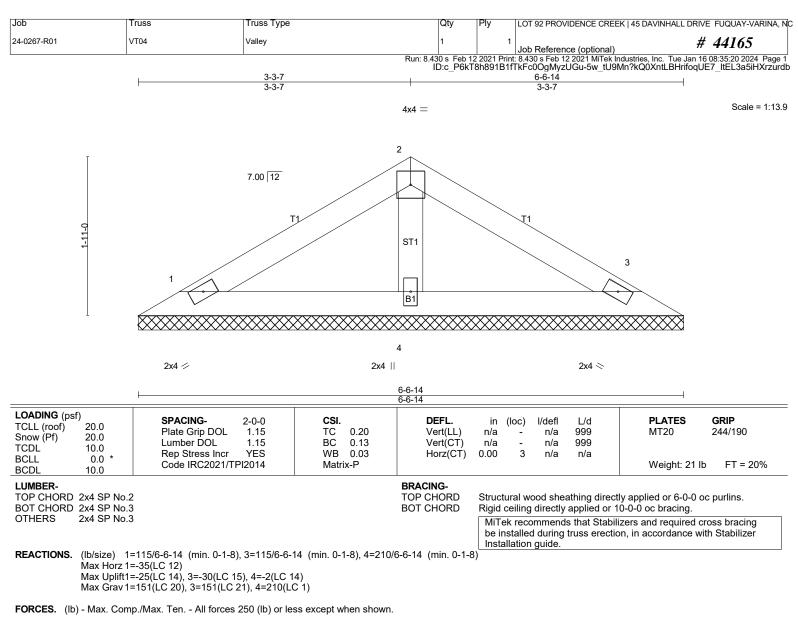
(9-12)

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); 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) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 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) 1, 3, 4.
- 9) 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) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the
- 12) SEE BČŠI-B3 SUMMĀRY SHĒET- PERMANENT RESTRAING/BRACING OF CHORDS & WĒB MEMBERS FOR ŘECŎMMENDED

LOAD CASE(S) Standard





NOTES-(9-12)

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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LOAD CASE(S) Standard

