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 #: 64059 JOB: 25-8534-R01

JOB NAME: LOT 159 PROVIDENCE CREEK

Wind Code: ASCE7-16 Wind Speed: Vult= 120mph Exposure Category: B

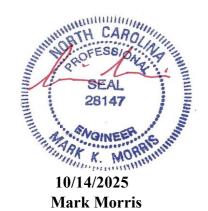
Mean Roof Height (feet): 35

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

32 Truss Design(s)

Trusses:

J01, PB01, PB02, R01, R02, R02A, R02B, R03, R03A, R04, R05, R05A, R06, R07, R08, R09, R10, R11, R12, R13, R14, R15, VT01, VT02, VT03, VT04, VT05, VT06, VT07, VT08, VT09,



My license renewal date for the state of North Carolina is 12/31/2025

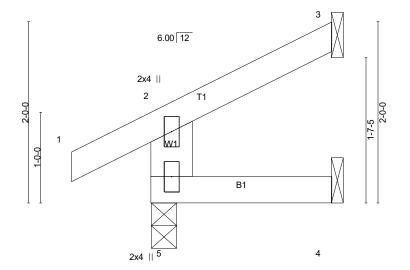
Warning !—Verify design parameters and read notes before use.

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 LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-VARIN 25-8534-R01 J01 Jack-Open # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:09 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-EDm9plAL0p_JPVxa2M7BPvJR?jQ7qdXStrx8y5yT924

-0-10-8 0-10-8 2-0-0

Scale = 1:12.7



2-0-0 2-0-0

LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.14 BC 0.06 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) 0.00 4-5 >999 240 Vert(CT) -0.00 5 >999 180 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2021/TPI2014	Matrix-R		Weight: 9 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WFBS 2x6 SP No.2 BRACING-

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) 5=157/0-3-8 (min. 0-1-8), 3=37/Mechanical, 4=12/Mechanical Max Horz 5=42(LC 11) Max Uplift5=-17(LC 14), 3=-29(LC 14), 4=-14(LC 11) Max Grav 5=217(LC 21), 3=52(LC 21), 4=30(LC 7)

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; End Jack Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left 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
- 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.
- 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) 5, 3, 4.
- 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.

LOAD CASE(S) Standard



10/14/2025

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Job Truss Truss Type LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-V<mark>ARIN</mark> 25-8534-R01 PB01 GABLE # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:11 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-AcuvERCbYQE1eo5yAnAfVKOn?X4zIX4IK8QF0_yT922 6-4-0 12-8-0 6-4-0 6-4-0 Scale = 1:21.2 4x4 =12 2x4 || 6.00 12 5^{2x4 ||} 3 T1 ST2 ST ST 0-4-7 0-4-7 0-1-10 0-1-10 10 9 8 3x4 =3x4 =2x4 || 2x4 || 2x4 || 12-8-0 12-8-0 LOADING (psf) SPACING-GRIP CSI DEFL. **PLATES** 2-0-0 (loc) I/defl L/d TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.17 Vert(LL) 0.00 n/r 180 MT20 244/190 Snow (Pf) 20.0 вс Lumber DOL 1.15 0.16 Vert(CT) 0.00 n/r 80 **TCDL** 10.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 6 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 45 lb FT = 20% Matrix-SH BCDL 10 0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.3 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. OTHERS 2x4 SP No.3 MiTek recommends that Stabilizers and required cross bracing

All bearings 10-7-14. REACTIONS.

(lb) - Max Horz 2=-45(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8

Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=390(LC 21), 8=390(LC 22)

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

WEBS 3-10=-299/133, 5-8=-299/133

NOTES-(13-16)

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) 0-3-15 to 5-1-8, Exterior(2R) 5-1-8 to 7-6-8, Exterior(2E) 7-6-8 to 12-4-1 zone; end vertical left and right exposed; 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) Gable requires continuous bottom chord bearing.

- 2) 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.

 11) Provide mechanical connection (by others) of truss to bearing plate conclusion.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

1/202: SEAL 28147 NOINEE K. MORR

be installed during truss erection, in accordance with Stabilizer

Installation guide.

10/14/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR	FUQUAY-VARI
25-8534-R01	PB01	GABLE	2	1	Job Reference (optional) # 640.	59

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:12 2025 Page 2 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-eoSHSnCEJkMuGyf8jUhu1YxylwQC1_JuZo9oZQyT921

- 13) 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.
- 14) 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
- 15) 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.

 16) 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

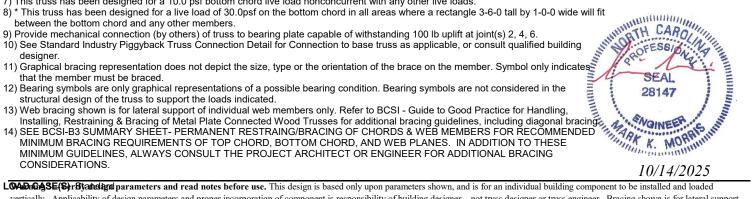


.lob Truss Truss Type LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-VARIN. 25-8534-R01 PB02 Piggyback 25 # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:13 2025 Page 1 ID:kHdPkcON9g3_0IfrDBlgKRzexCS-6_0ff7Ds41Ult6ELHCC7alT1PKf0mQP2oSvL5syT920 6-4-0 12-8-0 6-4-0 6-4-0 Scale = 1:21.2 4x6 =3 6.00 12 ST 0-4-7 0-1-10 6 3x4 =3x4 =2x4 || 12-8-0 12-8-0 Plate Offsets (X,Y)-- [2:0-0-4,Edge], [4:0-0-4,Edge] LOADING (psf) SPACING-DEFL. I/d **PLATES** GRIP 2-0-0 CSI. in (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.56 Vert(LL) 0.01 5 n/r 180 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.61 Vert(CT) 0.02 5 n/r 80 TCDL 10.0 WB 0.07 4 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-SH Weight: 40 lb FT = 20%**BCDL** 10.0 LUMBER-BRACING-Structural wood sheathing directly applied or 6-0-0 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.3 BOT CHORD 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.** (lb/size) 2=236/10-7-14 (min. 0-1-8), 4=236/10-7-14 (min. 0-1-8), 6=463/10-7-14 (min. 0-1-8) Max Horz 2=-45(LC 15) Max Uplift2=-51(LC 14), 4=-60(LC 15), 6=-28(LC 14) Max Grav 2=324(LC 21), 4=324(LC 22), 6=480(LC 21) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 3-6=-305/144 NOTES-(11-14)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) 0-3-15 to 5-1-8, Exterior(2R) 5-1-8 to 7-6-8, Exterior(2E) 7-6-8 to 12-4-1 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) Gable requires continuous bottom chord bearing.

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

- Graphical bracing representation does not depict the Size, type of the English Hall Bracing representation does not depict the Size, type of the English Hall Bracing 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 Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for Additional Bracing Bracing Bracing Stummary Sheet-Permanent Restraining & Web Members For Recommended Plate Connected Wood Trusses for Additional Bracing Brac MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.



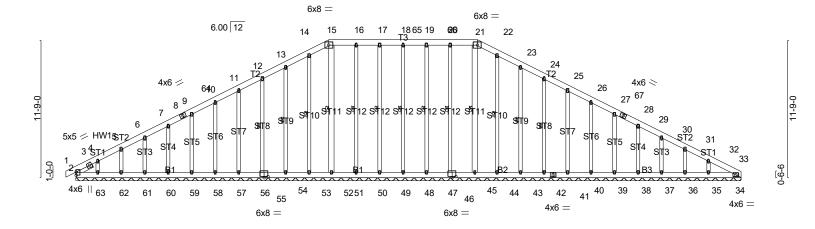
10/14/2025

LOAD GASE(S) rByanding 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 LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-V<mark>ARIN</mark> 25-8534-R01 R01 Piggyback Base Supported Gable # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:20 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-PKxJ7WJFRBMIDBHhBAqmMEGMb9B?vY13P25DqyyT91v

-0₇10-8 0-10-8 21-6-0 34-2-0 56-7-4 21-6-0 12-8-0 22-5-4

Scale = 1:98.1



56-7-4 Plate Offsets (X,Y)-- [47:0-4-0,0-1-4], [55:0-4-0,0-1-4]

1 1010 0110010 (71) 11110	. 0,0], [00.0 . 0,0]			
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 IRC2021/TPI2014	CSI. TC 0.05 BC 0.04 WB 0.21 Matrix-SH	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 1 n/r 180 Vert(CT) -0.00 1 n/r 80 Horz(CT) 0.01 33 n/a n/a	PLATES GRIP MT20 244/190 Weight: 578 lb FT = 20%

LUMBER-

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

2x4 SP No.3 *Except* **OTHERS** ST11: 2x6 SP No.2

Left 2x4 SP No.3 1-6-4 SLIDER

BRACING-

TOP CHORD BOT CHORD WFBS

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

1 Row at midpt

18-49, 17-50, 16-51, 15-52, 14-53, 13-54, 12-56, 19-48, 20-47, 21-45, 22-44, 23-43, 24-42

REACTIONS. All bearings 56-7-4.

(lb) - Max Horz 2=-169(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 2, 49, 50, 51, 53, 54, 56, 57, 58, 59, 60, 61, 62, 48, 47, 44, 43,

42, 40, 39, 38, 37, 36, 35, 34 except 63=-115(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 2, 60, 61, 62, 63, 37, 36, 35, 34, 33 except 49=291(LC 44),

50=293(LC 44), 51=311(LC 44), 52=282(LC 52), 53=269(LC 47), 54=299(LC 45), 56=285(LC 45), 57=293(LC 45),

58=292(LC 45), 59=286(LC 45), 48=293(LC 44), 47=304(LC 44), 45=270(LC 52), 44=267(LC 49), 43=299(LC 49),

42=292(LC 45), 40=292(LC 45), 39=292(LC 45), 38=286(LC 45)

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

2-3=-253/84, 13-14=-119/283, 14-15=-131/314, 15-16=-123/300, 16-17=-123/300,

17-65=-123/300, 18-65=-123/300, 18-66=-123/300, 19-66=-123/300, 19-20=-123/300,

20-21=-123/300, 21-22=-131/314, 22-23=-119/283

(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 3-10-0, Exterior(2N) 3-10-0 to 16-8-6, Corner(3R) 16-8-6 to 26-3-10, Exterior(2N) 26-3-10 to 29-4-6, Corner(3R) 29-4-6 to 38-11-10, Exterior(2N) 38-11-10 to 51-9-10, Corner(3E) 51-9-10 to 56-7-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DÓL=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) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 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.



10/14/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE	E CREEK DR FUQUAY-VAR
25-8534-R01	R01	Piggyback Base Supported Gable	2	1	Job Reference (optional)	# 64059

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:23 2025 Page 2 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-pvdRlXL7j6lK4e?GtlNT_susqMCi6vnW50KtRHyT91s

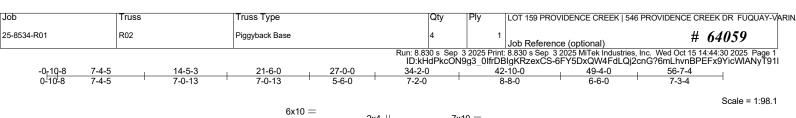
NOTES-(14-17)

- 13) Provide mechánical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 49, 50, 51, 53, 54, 56, 57, 58, 59, 60, 61, 62, 48, 47, 44, 43, 42, 40, 39, 38, 37, 36, 35, 34 except (jt=lb) 63=115.
- 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





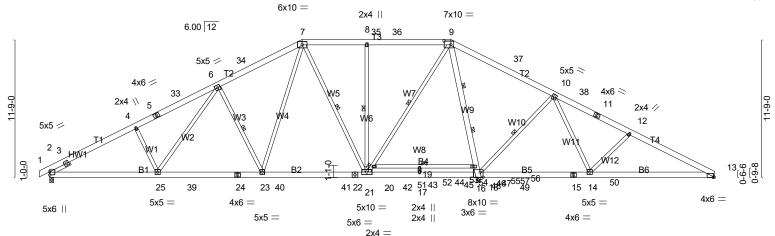


Plate Offset	9-2-5 e (X V) [0:0-7		0-13 dge] [16:0-3-4	8-10-1 0 0-5-41		4-6-0	5-0-4		9-5-12		10-7-4	
LOADING (p TCLL (roof) Snow (Pf) TCDL BCLL BCDL		SPACING- Plate Grip DO Lumber DOL Rep Stress Int Code IRC202	2-0-0 L 1.15 1.15 cr YES	CSI. TC BC WB	0.64 0.81 0.81 (x-AS	Ver	t(LL) - t(CT) -	in (loc) 0.24 18-19 0.35 18-19 0.04 16	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 454 lb	GRIP 244/190 FT = 20%

31_6_0

27_0_0

I UMBER-BRACING-

18-1-3

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

9-2-5

B4: 2x4 SP No.2 **WEBS** 2x4 SP No.3 *Except*

W9: 2x6 SP No.2 SLIDER Left 2x4 SP No.3 1-11-0

TOP CHORD BOT CHORD WFBS

26 6 /

Structural wood sheathing directly applied. Rigid ceiling directly applied. Except:

46-0-0

6-0-0 oc bracing: 18-20

6-23, 7-21, 8-21, 9-20, 10-16 1 Row at midpt

2 Rows at 1/3 pts 9-16

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

56-7-4

REACTIONS. (lb/size) 2=1319/0-3-8 (min. 0-1-13), 16=3024/0-3-8 (min. 0-1-12), 13=415/Mechanical

Max Horz 2=-170(LC 15)

Max Uplift2=-184(LC 14), 16=-111(LC 15), 13=-116(LC 15) Max Grav 2=1549(LC 92), 16=3965(LC 43), 13=529(LC 41)

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

TOP CHORD 2-3=-937/30, 3-4=-2473/282, 4-5=-2325/291, 5-33=-2245/302, 6-33=-2213/319,

6-34=-1649/298, 7-34=-1509/320, 7-35=-855/239, 8-35=-855/239, 8-36=-855/239,

9-36=-855/239, 9-37=0/1300, 10-37=-6/1082, 10-38=-180/283, 11-38=-217/253,

11-12=-350/215, 12-13=-613/202 **BOT CHORD**

2-25=-323/2123, 25-39=-179/1740, 24-39=-179/1740, 23-24=-179/1740, 23-40=-56/1108,

40-41=-56/1108, 22-41=-56/1108, 21-22=-56/1108, 21-42=-420/250, 42-43=-420/250, 43-44=-420/250, 17-44=-420/250, 17-45=-420/250, 45-46=-420/250, 46-47=-420/250,

47-48=-420/250, 16-48=-420/250, 16-49=-403/102, 49-50=-403/102, 15-50=-403/102,

14-15=-403/102, 13-14=-106/511

4-25=-326/199, 6-25=-108/532, 6-23=-990/281, 7-23=-179/1230, 7-21=-973/193,

8-21=-704/172, 20-21=-171/1834, 9-20=-149/1908, 9-18=-2684/342, 16-18=-2755/316,

10-16=-1143/294, 10-14=-46/604, 12-14=-410/188, 17-19=-289/0

NOTES-

WEBS

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

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; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 16-8-6, Exterior(2R) 16-8-6 to 26-3-10, Interior(1) 26-3-10 to 29-4-6, Exterior(2R) 29-4-6 to 38-11-10, Interior(1) 38-11-10 to 51-9-10, Exterior(2E) 51-9-10-56-7-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown: Limber BC TCLL: ASCE 7-16; Pr=20.0 psf (roof 11-1) = 1.00 psf (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

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) Provide adequate drainage to prevent water ponding.

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

10/14/2025

K. MORR

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MORRELITION 1/202 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 continued on page 2. Vertically. Applies bility 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 159 PROVIDENCE CREEK 546 PROVIDENCE	CREEK DR FUQUAY-VARIN
25-8534-R01	R02	Piggyback Base	4	1	Job Reference (optional)	# 64059

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NOTES- (17-20)

- 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) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=184, 16=111, 13=116.
- 12) Load case(s) 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) MULTIPLE LOADCASES This design is the composite result of multiple load cases.
- 14) User moving load cases exist: Review the load cases for details.
- 15) 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.
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 17) 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.
- 18) 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
- 19) 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.

 20) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
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LOAD CASE(S) Standard Except:

86) 1st User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-60(F), 7-9=-60(F), 9-13=-60(F), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

87) 2nd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-60(F), 7-9=-60(F), 9-13=-60(F), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 42=-150 44=-150

88) 3rd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-7=-60(F), 7-9=-60(F), 9-13=-60(F), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 44=-150 45=-150

89) 4th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-60(F), 7-9=-60(F), 9-13=-60(F), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 45=-150 47=-150

90) 5th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-60(F), 7-9=-60(F), 9-13=-60(F), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 46=-150

91) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

92) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

93) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

94) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb) Vert: 21=-150 42=-150

95) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

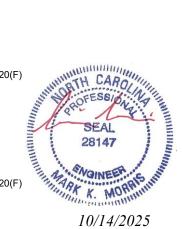
Vert: 21=-150 42=-150

96) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150



10/14/2025

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LOAD CASE(S)

97) 7th Unbal. 1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

98) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

99) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

100) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

101) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

102) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

103) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

104) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

105) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

106) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

107) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

108) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

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Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

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Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

111) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

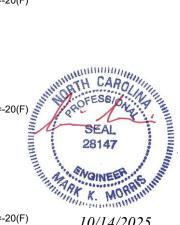
Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

112) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)



10/14/2025

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LOAD CASE(S)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

113) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

114) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

115) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

116) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

117) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

118) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

119) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

120) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

121) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

122) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-\$\(\begin{align*}
-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)
\end{align*}

Concentrated Loads (lb)

Vert: 21=-150 42=-150

123) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

124) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

125) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

126) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F) Concentrated Loads (lb)

Vert: 21=-150 42=-150

127) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150



10/14/2025

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters snown, and is not an individual outloing component to component to the continued on page 5.

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 to 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.

3.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:31 2025 Page 5 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-aS6TRGR8rZlB1tcoLzXLIYD4XbIT_OOhxGGIjqyT91k

LOAD CASE(S)

128) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

 $\label{eq:Vert: 1-S-60} Vert: 1-S-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F) \\ Concentrated Loads (lb)$

Vert: 21=-150 42=-150

129) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

130) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

131) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

132) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F) Concentrated Loads (lb)

Concentrated Loads (Ib)

Vert: 21=-150 42=-150

133) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

134) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-\$=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

135) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

136) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

137) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

138) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-S=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

139) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

140) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

141) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

142) 8th Unbal. 1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F) Concentrated Loads (lb)

Vert: 21=-150 42=-150

143) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)



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. Applies of vertically. Applies 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 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-V	۱RIN
25-8534-R01	R02	Piggyback Base	4	1	Job Reference (optional) # 64059	

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:31 2025 Page 6 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-aS6TRGR8rZlB1tcoLzXLIYD4XbIT_OOhxGGIjqyT91k

LOAD CASE(S)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

144) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

145) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

146) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

147) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-32(F=-20), 7-9=-101(F=-20), 9-13=-32(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150

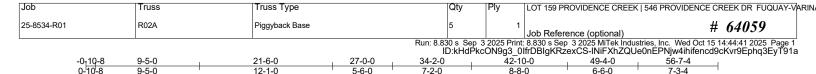
148) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

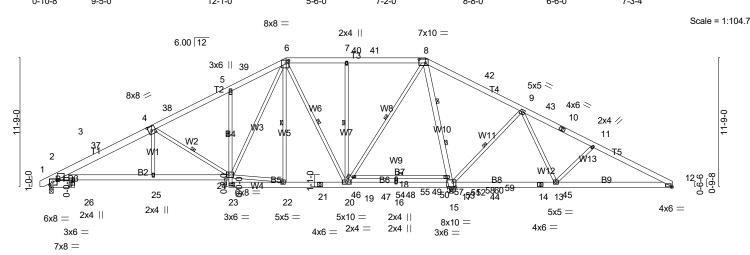
Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)

Concentrated Loads (lb)

Vert: 21=-150 42=-150







2-3-8 2-3-8	9-5-0 16-3-8 18-1-3 2 7-1-8 6-10-8 1-9-11 3		31-6-0 36-6-4 46- 4-6-0 5-0-4 9-5	-0-0 i-12	56-7-4 10-7-4
Plate Offsets (X,Y) [4:0-3	3-8,0-4-8], [6:0-2-12,0-2-12], [8:0-7-0,0)-4-0], [12:0-1-4,Edge], [1	15:0-3-0,0-5-4], [24:0-2-12,0-3-0]		
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 IRC2021/TPI2014	CSI. TC 0.67 BC 0.83 WB 0.81 Matrix-AS	Vert(LL) -0.24 17-18 >	/defl L/d -999 240 -999 180 n/a n/a	PLATES GRIP MT20 244/190 Weight: 488 lb FT = 20%

I UMBER-BRACING-TOP CHORD 2x6 SP No.2 *Except* TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied. Except: T1: 2x8 SP No.2 BOT CHORD BOT CHORD 2x6 SP No.2 *Except* 1 Row at midpt 5-24

B1: 2x8 SP No.2, B7, B3, B4: 2x4 SP No.2

6-0-0 oc bracing: 17-19 WFBS WFBS 2x4 SP No.3 *Except* 1 Row at midpt 6-20, 7-20, 8-19, 9-15, 6-22, 4-24 W10: 2x6 SP No.2 2 Rows at 1/3 pts 8-15

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

REACTIONS. (lb/size) 2=1293/0-3-8 (min. 0-1-12), 15=3143/0-3-8 (min. 0-1-12), 12=339/Mechanical

Max Horz 2=-170(LC 15) Max Uplift2=-156(LC 14), 15=-102(LC 14), 12=-125(LC 15) Max Grav 2=1470(LC 150), 15=3896(LC 43), 12=478(LC 41)

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

TOP CHORD 2-3=-623/161, 3-37=-2711/281, 4-37=-2513/283, 4-38=-1872/249, 5-38=-1697/278,

5-39=-1811/353, 6-39=-1794/377, 6-40=-785/228, 7-40=-785/228, 7-41=-785/228, 8-41=-785/228, 8-42=-28/1475, 9-42=-49/1256, 9-43=-72/431, 10-43=-105/409,

10-11=-239/364, 11-12=-503/308

BOT CHORD 15-44=-509/147, 44-45=-509/147, 14-45=-509/147, 13-14=-509/147, 12-13=-233/412,

21-22=-44/942, 21-46=-44/942, 20-46=-44/942, 20-47=-549/235, 47-48=-549/235, 48-49=-549/235, 16-49=-549/235, 16-50=-549/235, 50-51=-549/235, 51-52=-549/235, 52-53=-549/235, 15-53=-549/235, 5-24=-611/197, 3-25=-305/2397, 24-25=-303/2405

6-20=-989/195, 7-20=-705/175, 19-20=-178/1828, 8-19=-156/1889, 8-17=-2811/356,

15-17=-2872/330, 9-15=-1144/294, 9-13=-46/605, 11-13=-411/187, 16-18=-286/0,

22-24=-20/736, 6-24=-282/1499, 4-25=0/382, 4-24=-1047/241

NOTES-(17-20)

WEBS

STATE CARO

6) Provide adequate drainage to prevent water ponding.

7) 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

1/202 SEAL 28147 NOINE A. MORRIS

10/14/2025

Wishwing 1-Hitebiti data igh of a modern yearth eranh embets furth in SCIBIs tell 2008 the self 2008 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 159 PROVIDENCE CREEK 546 PROVIDENCE C	CREEK DR FUQUAY-VARII
25-8534-R01	R02A	Piggyback Base	5	1	Job Reference (optional)	<i>64059</i>

In: 8.630 \$ Sep 3 2025 Pffile 6.630 \$ Sep 3 2023 Infree findustries, file. Wed Oct 13 14.44.42 2023 Fage 2 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-mZGdl1a2Fx8esZyvUnDwFsAyL0Vr3M5JSTQNchyT91Z

NOTES- (17-20)

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

10) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=156, 15=102, 12=125.

 12) Load case(s) 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) MULTIPLE LOADCASES This design is the composite result of multiple load cases.
- 14) User moving load cases exist: Review the load cases for details.
- 15) 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
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 17) 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.
- 18) 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
- 19) 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.
 20) 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 Except:

86) 1st User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-29-60(F), 6-35-60(F), 6-8-60(F), 8-12-60(F), 31-53-20(F), 23-53-20(F), 17-19-20(F), 24-34-20(F)

Concentrated Loads (lb)

Vert: 20=-150 47=-150

87) 2nd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-29=-60(F), 6-35=-60(F), 6-8=-60(F), 8-12=-60(F), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb)

Vert: 47=-150 49=-150

88) 3rd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-29=-60(F), 6-35=-60(F), 6-8=-60(F), 8-12=-60(F), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb)

Vert: 49=-150 50=-150

89) 4th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-29=-60(F), 6-35=-60(F), 6-8=-60(F), 8-12=-60(F), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb)

Vert: 50=-150 52=-150

90) 5th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-29=-60(F), 6-35=-60(F), 6-8=-60(F), 8-12=-60(F), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb)

Vert: 15=-150 51=-150

91) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-29-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb)

Vert: 20=-150 47=-150

92) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20),

31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb)

Vert: 20=-150 47=-150

93) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F),

24-34=-20(F) Concentrated Loads (lb)

Vert: 20=-150 47=-150

94) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20),

31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb)

Vert: 20=-150 47=-150

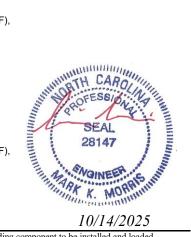
95) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-29=32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb)

Vert: 20=-150 47=-150

96) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15



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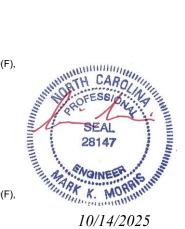
Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded continued on page with the page of the pa of individual web members only. Additional temporary bracing to ensure stability 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

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:42 2025 Page 3 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-mZGdl1a2Fx8esZyvUnDwFsAyL0Vr3M5JSTQNchyT91Z

LOAD CASE(S) Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 97) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29-32(F-20), 6-35-32(F-20), 6-8-101(F-20), 8-12-32(F-20), 31-53-20(F), 23-53-20(F), 17-19-20(F), 24-34-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 98) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 99) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 100) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 101) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 102) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 103) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 104) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 105) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 106) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 107) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150

108) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 109) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)



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Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:42 2025 Page 4 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-mZGdl1a2Fx8esZyvUnDwFsAyL0Vr3M5JSTQNchyT91Z

LOAD CASE(S) Concentrated Loads (lb) Vert: 20=-150 47=-150 110) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 111) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 112) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 113) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 114) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 115) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 116) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 117) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 118) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 119) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 120) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb)

Vert: 20=-150 47=-150 121) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)

Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20),

Concentrated Loads (lb)

Vert: 20=-150 47=-150

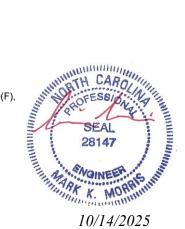
122) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb)

Vert: 20=-150 47=-150

123) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15



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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 erector. 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.

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LOAD CASE(S)
    Uniform Loads (plf)
            Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)
    Concentrated Loads (lb)
            Vert. 20=-150 47=-150
124) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F),
            24-34=-20(F)
    Concentrated Loads (lb)
            Vert: 20=-150 47=-150
125) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)
    Concentrated Loads (lb)
            Vert: 20=-150 47=-150
126) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F),
            24-34=-20(F)
    Concentrated Loads (lb)
            Vert: 20=-150 47=-150
127) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)
    Concentrated Loads (lb)
            Vert: 20=-150 47=-150
128) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F),
            24-34=-20(F)
    Concentrated Loads (lb)
            Vert: 20=-150 47=-150
129) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
     Uniform Loads (plf)
            Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)
    Concentrated Loads (Ib)
            Vert: 20=-150 47=-150
130) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F),
            24-34=-20(F)
    Concentrated Loads (lb)
            Vert: 20=-150 47=-150
131) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)
    Concentrated Loads (lb)
            Vert: 20=-150 47=-150
132) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20),
            31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)
    Concentrated Loads (lb)
            Vert: 20=-150 47=-150
133) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
     Uniform Loads (plf)
            Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F),
            24-34=-20(F)
                                                                                                                           SEAL 28147
    Concentrated Loads (lb)
            Vert: 20=-150 47=-150
134) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-29-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20),
            31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)
    Concentrated Loads (lb)
            Vert: 20=-150 47=-150
135) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
            Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F),
            24-34=-20(F)
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136) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb)

Concentrated Loads (lb)

Vert: 20=-150 47=-150

Vert: 20=-150 47=-150



10/14/2025

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 Continued on page 6. Vertically. Applies only 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.

in: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:42 2025 Page 6 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-mZGdl1a2Fx8esZyvUnDwFsAyL0Vr3M5JSTQNchyT91Z Run: 8.830 s Sen

LOAD CASE(S) 137) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 138) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 139) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 140) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 141) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 142) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 143) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 144) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 145) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 146) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 147) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), SEAL 28147 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 148) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb) Vert: 20=-150 47=-150 149) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-29=-32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F),

17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb)

Vert: 20=-150 47=-150

150) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-29-60(F--20), 29-35-40, 35-37-60(F--20), 6-37-101(F--20), 6-8--32(F--20), 8-10-101(F--20), 10-12-60(F--20) , 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)

10/14/2025

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 the indicated on page 1.

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.

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:42 2025 Page 7 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-mZGdl1a2Fx8esZyvUnDwFsAyL0Vr3M5JSTQNchyT91Z LOAD CASE(S) Concentrated Loads (lb) Vert: 20=-150 47=-150 151) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29-32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 152) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 29-35=-40, 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 23-53= 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 153) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 154) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 155) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29-32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 156) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Vert: 1-29=-60(F=-20), 29-35=-40, 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 23-517-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 157) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 158) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 29-35=-40, 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 159) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 160) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Vert: 1-29=-60(F=-20), 29-35=-40, 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20) 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 161) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 162) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-29=-60(F=-20), 29-35=-40, 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) (F=-20), 10-12=-60(F=-20), 10-12= Uniform Loads (plf) Concentrated Loads (lb) Vert: 20=-150 47=-150

163) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F),

17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb) Vert: 20=-150 47=-150

164) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

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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 Continued on page 8 vertically. Applies 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.

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:43 2025 Page 8 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-Emq?yNag0FGVUjX62Vk9o4j75Qr4opLSh7Ax87yT91Y

LOAD CASE(S) Uniform Loads (plf) Vert: 1-29=-60(F=-20), 29-35=-40, 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 23-53= 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 165) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 166) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29 = -60(F=-20), 29-35=-40, 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 2317-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 167) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29-32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 168) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 29-35=-40, 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 23-53= 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 169) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 170) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 29-35=-40, 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 23-53= 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 171) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 172) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29 = -60(F=-20), 29-35=-40, 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 2317-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 173) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 174) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-29=-60(F=-20), 29-35=-40, 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20) 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) Vert: 20=-150 47=-150 175) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 ROFESS OF ESS Uniform Loads (plf) Vert: 1-29=32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) Concentrated Loads (lb) A STITUTE OF THE STATE OF THE S Vert: 20=-150 47=-150 176) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) SEAL Vert: 1-29-60(F=-20), 29-35=-40, 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20) , 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F) 28147

10/14/2025

K. MORR

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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 Continued on page 9 vertically. Applies 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.

177) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-29=-32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F),

Concentrated Loads (lb)

Vert: 20=-150 47=-150

17-19=-20(F), 24-34=-20(F)

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-V	ARIN
25-8534-R01	R02A	Piggyback Base	5	1	Job Reference (optional) # 64059	

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:43 2025 Page 9 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-Emq?yNag0FGVUjX62Vk9o4j75Qr4opLSh7Ax87yT91Y

LOAD CASE(S)

Concentrated Loads (lb)

Vert: 20=-150 47=-150

178) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-29=-60(F=-20), 29-35=-40, 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 23-53= 17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb)

Vert: 20=-150 47=-150

179) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-29=-32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb)

Vert: 20=-150 47=-150

180) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-29=-60(F=-20), 29-35=-40, 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 23-53= 17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb)

Vert: 20=-150 47=-150

181) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-29-32(F=-20), 29-35=-12, 6-35=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 31-53=-20(F), 23-53=-20(F), 17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb)

Vert: 20=-150 47=-150

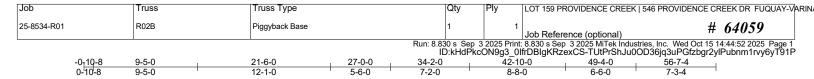
182) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

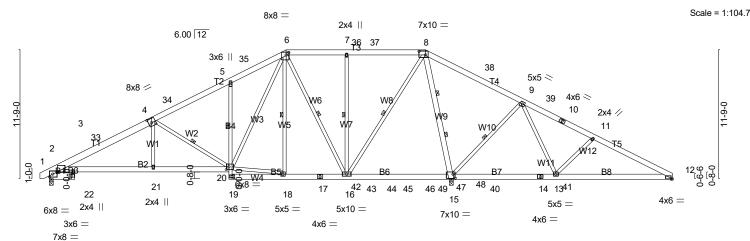
Vert: 1-29=-60(F=-20), 29-35=-40, 35-37=-60(F=-20), 6-37=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 31-53=-20(F), 23-53=-20(F), 23-53=

17-19=-20(F), 24-34=-20(F)

Concentrated Loads (lb) Vert: 20=-150 47=-150

SEAL 28147





2-3-8 2-3-8	9-5-0 16-3-8 18-1-3 2 7-1-8 6-10-8 1-9-11 3		36-6-4 9-6-4	46-0-0 9-5-12	56-7-4 10-7-4	1
Plate Offsets (X,Y) [3:0-	0-4,0-0-0], [4:0-3-8,0-4-8], [6:0-2-12,0-	2-12], [8:0-7-0,0-4-0], [12	2:0-1-4,Edge], [15:0-2	2-8,0-4-8], [20:0-2-12,0-3	-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 IRC2021/TPI2014	CSI. TC 0.67 BC 0.66 WB 0.81 Matrix-AS	Vert(LL) -0.	in (loc) I/defl L/d 12 15-16 >999 240 25 15-16 >999 180 10 15 n/a n/a	PLATES MT20 Weight: 474 I	GRIP 244/190 b FT = 20%

I UMBER-TOP CHORD 2x6 SP No.2 *Except*

T1: 2x8 SP No.2

BOT CHORD 2x6 SP No.2 *Except*

B1: 2x8 SP No.2, B3,B4: 2x4 SP No.2

WFBS 2x4 SP No.3 *Except*

W9: 2x6 SP No.2

BRACING-

WFBS

TOP CHORD BOT CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied. Except:

1 Row at midpt 5-20

6-16, 7-16, 8-16, 9-15, 6-18, 4-20 1 Row at midpt

2 Rows at 1/3 pts 8-15

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

REACTIONS. (lb/size) 2=1275/0-3-8 (min. 0-1-11), 15=2975/0-3-8 (min. 0-1-11), 12=347/Mechanical

Max Horz 2=-170(LC 15)

Max Uplift2=-165(LC 14), 15=-185(LC 14), 12=-122(LC 15) Max Grav 2=1452(LC 150), 15=3722(LC 150), 12=486(LC 41)

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

TOP CHORD 2-3=-615/165, 3-33=-2669/302, 4-33=-2472/305, 4-34=-1832/270, 5-34=-1657/298,

5-35=-1771/374, 6-35=-1754/397, 6-36=-736/254, 7-36=-736/254, 7-37=-736/254,

8-37=-736/254, 8-38=-33/1463, 9-38=-54/1244, 9-39=-89/411, 10-39=-125/389,

10-11=-259/344, 11-12=-522/289

15-40=-494/154, 40-41=-494/154, 14-41=-494/154, 13-14=-494/154, 12-13=-216/429, 17-18=-60/899, 17-42=-60/899, 16-42=-60/899, 16-43=-592/224, 43-44=-592/224,

44-45=-592/224, 45-46=-592/224, 46-47=-592/224, 47-48=-592/224, 48-49=-592/224,

15-49=-592/224, 5-20=-611/196, 3-21=-324/2360, 20-21=-322/2368

6-16=-1025/176, 7-16=-706/175, 8-16=-198/1805, 8-15=-2733/395, 9-15=-1150/291,

9-13=-42/627, 11-13=-410/188, 18-20=-29/704, 6-20=-286/1491, 4-21=0/380,

4-20=-1045/242

BOT CHORD

WEBS

vilid: 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; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-8-9 to 4-1-1, Interior(1) 4-1-1 to 16-8-6, Exterior(2R) 16-8-6 to 26-3-10, Interior(1) 26-3-10 to 29-4-6, Exterior(2R) 29-4-6 to 38-11-10, Interior(1) 38-11-10 to 51-9-10, Exterior(2E) 51-9-10 to 56-7-3 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions showed the second part of NOTES1) Unbalanced roof live loads have been come.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mpn, 102
Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-8-9 to 4-1-1, 102
to 26-3-10, Interior(1) 26-3-10 to 29-4-6, Exterior(2R) 29-4-6 to 38-11-10, Interior(1) 38-11-10 to 51-9-10, Exterior(2E) -0-8-9 to 4-1-1, 102
zone; end vertical left 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

7) 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. 9) Wantento: girdents i ferian partinitrus and mentionites 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 vertically. Applies bitty 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 159 PROVIDENCE CREEK	546 PROVIDENCE CREEK DR FUQUAY-VAI	RIN.
25-8534-R01	R02B	Piggyback Base	1	1	Job Reference (optional)	# 64059	
						es, Inc. Wed Oct 15 14:44:54 2025 Page 2 PtDBJRkkOg0LsdDto54DLK01 yT91N	

NOTES- (17-20)

10) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=165, 15=185, 12=122.

12) Load case(s) 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

13) MULTIPLE LOADCASES – This design is the composite result of multiple load cases.

- 14) User moving load cases exist: Review the load cases for details.
- 15) 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.
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 17) 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.
- 18) 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
- 20) 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 Except:

86) 1st User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-60(F), 6-31=-60(F), 6-8=-60(F), 8-12=-60(F), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

87) 2nd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-60(F), 6-31=-60(F), 6-8=-60(F), 8-12=-60(F), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 43=-150 45=-150

88) 3rd User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-60(F), 6-31=-60(F), 6-8=-60(F), 8-12=-60(F), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb)

Vert: 45=-150 46=-150

89) 4th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-60(F), 6-31=-60(F), 6-8=-60(F), 8-12=-60(F), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb)

Vert: 46=-150 48=-150

90) 5th User Defined Moving Load - Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-25=-60(F), 6-31=-60(F), 6-8=-60(F), 8-12=-60(F), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 15=-150 47=-150

91) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

92) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

93) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb)

Vert: 16=-150 43=-150

94) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

95) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

 $Vert: 1-\overset{\circ}{2}5=\overset{\circ}{-}32(F=-20), \ 6-31=-32(F=-20), \ 6-8=-101(F=-20), \ 8-12=-32(F=-20), \ 27-49=-20(F), \ 19-49=-20(F), \ 20-30=-20(F), \ 20-30=-20(F),$

Vert: 16=-150 43=-150

96) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150



10/14/2025

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. Applies bit 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/TP11 National Design Standard for Metal Plate Connected Wood Trusses Grom Truss Plate Institute, 583

D'Onofrio Drive Madison WI 53719

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY	VARIN
25-8534-R01	R02B	Piggyback Base	1	1	Job Reference (optional) # 64059	

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:54 2025 Page 3 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-Pt_9G8jaQdfxlPtDBJRkkOg0LsdDto54DLK01_yT91N LOAD CASE(S) 97) 7th Unbal. 1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 98) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 99) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 100) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 101) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 102) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 103) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 104) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 105) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 106) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 107) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 108) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20),

27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

109) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb)

Vert: 16=-150 43=-150

110) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

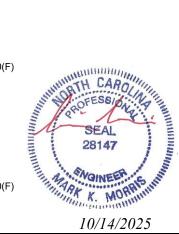
Concentrated Loads (lb)

Vert: 16=-150 43=-150

111) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb)

Vert: 16=-150 43=-150



10/14/2025

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters snown, and is not an individual outloing component to component of page 4. 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 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.

3.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:54 2025 Page 4 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-Pt_9G8jaQdfxlPtDBJRkkOg0LsdDto54DLK01_yT91N

LOAD CASE(S)

112) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb)

Vert: 16=-150 43=-150

113) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

114) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb)

Vert: 16=-150 43=-150

115) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

116) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb)

Vert: 16=-150 43=-150

117) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

118) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

119) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

120) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

121) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

122) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20),

27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

123) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

124) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20),

27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb)

Vert: 16=-150 43=-150

125) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

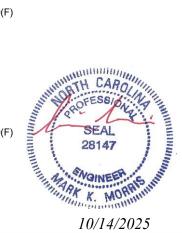
Concentrated Loads (lb) Vert: 16=-150 43=-150

126) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150



10/14/2025

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 continued on page 5 building 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 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK I	OR FUQUAY-VARI
25-8534-R01	R02B	Piggyback Base	1	1	Job Reference (optional) # 64	059

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:54 2025 Page 5 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-Pt_9G8jaQdfxIPtDBJRkkOg0LsdDto54DLK01_yT91N

LOAD CASE(S)

127) 7th Unbal. 1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

128) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb) Vert: 16=-150 43=-150

129) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

130) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

131) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

132) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

133) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

134) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

135) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

136) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

137) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

138) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20),

27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

139) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-25=32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

140) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20),

27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

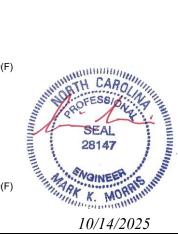
Vert: 16=-150 43=-150

141) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150



10/14/2025

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 Continued on page 6. Vertically. Applies only 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.

3.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:54 2025 Page 6 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-Pt_9G8jaQdfxlPtDBJRkkOg0LsdDto54DLK01_yT91N LOAD CASE(S) 142) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 143) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 144) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 145) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 146) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 147) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 148) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 149) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 150) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 151) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 152) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20) 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 153) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

154) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-25=-60(F=-20), 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20),

27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb)

Vert: 16=-150 43=-150

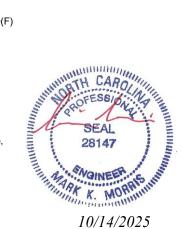
155) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-25=-32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

156) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15



10/14/2025

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is not an increased and read notes before use. This design is based only upon parameters shown, and is not an increased and increased 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 erector. 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.

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:54 2025 Page 7 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-Pt_9G8jaQdfxlPtDBJRkkOg0LsdDto54DLK01_yT91N

```
LOAD CASE(S)
            Uniform Loads (plf)
                                 Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 19-49=
                                 20-30=-20(F)
             Concentrated Loads (lb)
                                 Vert: 16=-150 43=-150
157) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
             Uniform Loads (plf)
                                 Vert: 1-25=32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)
             Concentrated Loads (lb)
                                 Vert: 16=-150 43=-150
158) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
             Uniform Loads (plf)
                                 Vert: 1-25 = -60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 19
                                 20-30=-20(F)
             Concentrated Loads (lb)
                                  Vert: 16=-150 43=-150
159) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
             Uniform Loads (plf)
                                 Vert: 1-25=-32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)
             Concentrated Loads (lb)
                                 Vert: 16=-150 43=-150
160) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
             Uniform Loads (plf)
                                 Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F),
                                 20-30=-20(F)
             Concentrated Loads (lb)
                                  Vert: 16=-150 43=-150
161) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
             Uniform Loads (plf)
                                 Vert: 1-25=-32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)
             Concentrated Loads (lb)
                                 Vert: 16=-150 43=-150
162) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
             Uniform Loads (plf)
                                 Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 19-49=
                                 20-30=-20(F)
             Concentrated Loads (lb)
                                  Vert: 16=-150 43=-150
163) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
             Uniform Loads (plf)
                                 Vert: 1-25-32(F--20), 25-31--12, 6-31--32(F--20), 6-8--101(F--20), 8-12--32(F--20), 27-49--20(F), 19-49--20(F), 20-30--20(F)
             Concentrated Loads (lb)
                                  Vert: 16=-150 43=-150
164) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
             Uniform Loads (plf)
                                 Vert: 1-25 = -60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 19
                                 20-30=-20(F)
             Concentrated Loads (lb)
                                 Vert: 16=-150 43=-150
165) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
             Uniform Loads (plf)
                                  Vert: 1-25=-32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F),
                                 20-30=-20(F)
             Concentrated Loads (lb)
                                 Vert: 16=-150 43=-150
166) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
             Uniform Loads (plf)
                                  Vert: 1-25=60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20)
                                   27-49=-20(F), 19-49=-20(F), 20-30=-20(F)
             Concentrated Loads (lb)
                                 Vert: 16=-150 43=-150
167) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
                                                                                                                                                                                                                                                                                                                                                          ROFESS.
             Uniform Loads (plf)
                                 Vert: 1-25=32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F),
                                 20-30=-20(F)
             Concentrated Loads (lb)
                                                                                                                                                                                                                                                                                                                                                                                                                              Vert: 16=-150 43=-150
168) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
             Uniform Loads (plf)
                                                                                                                                                                                                                                                                                                                                                                                                SEAL
                                 Vert: 1-25-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20)
                                  , 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)
                                                                                                                                                                                                                                                                                                                                                                                                28147
             Concentrated Loads (lb)
                                 Vert: 16=-150 43=-150
169) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
                                                                                                                                                                                                                                                                                                                                                                                            VOINEE
                                                                                                                                                                                                                                                                                                                                                                                                K. MORR
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10/14/2025

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 Continued on page 8 vertically. Applies 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.

Vert: 1-25=-32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F),

20-30=-20(F)

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:54 2025 Page 8 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-Pt_9G8jaQdfxlPtDBJRkkOg0LsdDto54DLK01_yT91N

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LOAD CASE(S)
              Concentrated Loads (lb)
                                       Vert: 16=-150 43=-150
170) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
               Uniform Loads (plf)
                                       Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 19-49=
                                       20-30=-20(F)
               Concentrated Loads (lb)
                                       Vert: 16=-150 43=-150
171) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
                Uniform Loads (plf)
                                       Vert: 1-25=-32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)
               Concentrated Loads (lb)
                                       Vert: 16=-150 43=-150
172) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
               Uniform Loads (plf)
                                       Vert: 1-25 = -60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 10-12=-60(F=-20), 27-49=-20(F), 27-49=-2
                                       20-30=-20(F)
               Concentrated Loads (lb)
                                       Vert: 16=-150 43=-150
173) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
                                       Vert: 1-25=-32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)
               Concentrated Loads (lb)
                                       Vert: 16=-150 43=-150
174) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
               Uniform Loads (plf)
                                       Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 10-12=-60(F=-20), 10-1
                                       20-30=-20(F)
               Concentrated Loads (lb)
                                       Vert: 16=-150 43=-150
175) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
                Uniform Loads (plf)
                                       Vert: 1-25-32(F--20), 25-31--12, 6-31--32(F--20), 6-8--101(F--20), 8-12--32(F--20), 27-49--20(F), 19-49--20(F), 20-30--20(F)
               Concentrated Loads (lb)
                                       Vert: 16=-150 43=-150
176) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
               Uniform Loads (plf)
                                       Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 10-12=-60(F=-20), 27-49=-20(F), 10-12=-60(F=-20), 27-49=-20(F=-20), 27-40=-20(F=-20), 27-40=-20(F=-20), 27-40=-20(F=-20), 
                                       20-30=-20(F)
               Concentrated Loads (lb)
                                       Vert: 16=-150 43=-150
177) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
                Uniform Loads (plf)
                                       Vert: 1-25=-32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)
               Concentrated Loads (lb)
                                       Vert: 16=-150 43=-150
178) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
               Uniform Loads (plf)
                                       Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20)
                                         , 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)
               Concentrated Loads (lb)
                                       Vert: 16=-150 43=-150
179) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
                                       Vert: 1-25=-32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F),
                                       20-30=-20(F)
               Concentrated Loads (lb)
                                       Vert: 16=-150 43=-150
180) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
               Uniform Loads (plf)
                                                                                                                                                                                                                                                                                                                                                                                                                 PROFESSIO
                                       Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20)
                                          27-49=-20(F), 19-49=-20(F), 20-30=-20(F)
               Concentrated Loads (lb)
                                       Vert: 16=-150 43=-150
181) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
               Uniform Loads (plf)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A STATE OF THE PARTY OF THE PAR
                                        Vert: 1-25=-32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F),
                                       20-30=-20(F)
               Concentrated Loads (lb)
                                       Vert: 16=-150 43=-150
182) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
               Uniform Loads (plf)
                                       Vert: 1-25-60(F-20), 25-31-40, 31-33-60(F-20), 6-33-101(F-20), 6-8-32(F-20), 8-10-101(F-20), 10-12-60(F-20)
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10/14/2025

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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 Continued on page 9 vertically. Applies 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.

183) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15

27-49=-20(F), 19-49=-20(F), 20-30=-20(F)

Concentrated Loads (lb)

Vert: 16=-150 43=-150

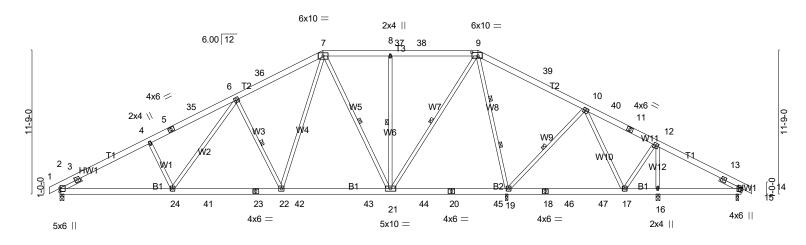
Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:54 2025 Page 9 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-Pt_9G8jaQdfxlPtDBJRkkOg0LsdDto54DLK01_yT91N

LOAD CASE(S) Uniform Loads (plf) Vert: 1-25-32(F--20), 25-31--12, 6-31--32(F--20), 6-8--101(F--20), 8-12--32(F--20), 27-49--20(F), 19-49--20(F), 20-30--20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 184) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 185) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 186) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 10-12=-60(F=-20), 27-49=-20(F), 27-49=-20(F) 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 187) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 188) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 10-12=-60(F=-20), 27-49=-20(F), 27-49=-20(F) 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 189) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25-32(F--20), 25-31--12, 6-31--32(F--20), 6-8--101(F--20), 8-12--32(F--20), 27-49--20(F), 19-49--20(F), 20-30--20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 190) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 191) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 192) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20) 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150 193) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) SEAL 28147 Concentrated Loads (lb) Vert: 16=-150 43=-150 194) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-25=-60(F=-20), 25-31=-40, 31-33=-60(F=-20), 6-33=-101(F=-20), 6-8=-32(F=-20), 8-10=-101(F=-20), 10-12=-60(F=-20) 27-49=-20(F), 19-49=-20(F), 20-30=-20(F) Concentrated Loads (lb) Vert: 16=-150 43=-150

10/14/2025

Job Truss Truss Type LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-V<mark>ARIN</mark> 25-8534-R01 R03 Piggyback Base # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:58 2025 Page 1 ID:kHdPkcON9g3_0IfrDBIgKRzexCS-leEg5Vm4Us9Mn1B_Q8WguEriiT?QpYZf8yIEAlyT91J -0₋10-8 0-10-8 21-6-0 27-0-0 42-10-0 48-10-4 34-2-0 55-8-0 56-6₇8 0-10-8 7_4_5 7-0-13 7-0-13 5-6-0 7-2-0 8-8-0 6-0-4 6-9-12

Scale = 1:94.2



9-2-5 9-2-5	18-1-3 8-10-13	27-0-0 8-10-13	36-6-4 9-6-4	46-0-0 9-5-12	48-10-4 55-5-8 55 ₁ 8-0 2-10-4 6-7-4 0-2-8
Plate Offsets (X,Y) [9:0-6-0,0-3-	-8]				
Snow (Pf) 20.0 TCDL 10.0 RCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.58 BC 0.65 WB 0.97 Matrix-AS	DEFL. in (loc) Vert(LL) -0.19 22-24 Vert(CT) -0.29 22-24 Horz(CT) 0.05 19		PLATES GRIP MT20 244/190 Weight: 437 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 *Except* B2: 2x6 SP DSS

WEBS 2x4 SP No.3 *Except* W8: 2x4 SP No.2

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

TOP CHORD BOT CHORD WFBS

Structural wood sheathing directly applied.

Rigid ceiling directly applied. 1 Row at midpt

6-22, 7-21, 8-21, 9-21, 10-19 2 Rows at 1/3 pts 9-19

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

REACTIONS. All bearings 0-3-8 except (jt=length) 14=0-3-0.

(lb) - Max Horz 2=167(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 16 except 2=-195(LC 14), 19=-163(LC 14), 14=-103(LC 15)

Max Grav All reactions 250 lb or less at joint(s) except 2=1578(LC 39), 19=3185(LC 45), 14=416(LC 43), 16=491(LC

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

TOP CHORD 2-3=-964/37, 3-4=-2571/332, 4-5=-2430/344, 5-35=-2362/350, 6-35=-2332/368

6-36=-1790/351, 7-36=-1644/380, 7-37=-880/310, 8-37=-880/310, 8-38=-880/310,

9-38=-880/310, 9-39=0/862, 10-39=0/687, 11-12=-287/151

BOT CHORD 2-24=-346/2214, 24-41=-200/1830, 23-41=-200/1830, 22-23=-200/1830, 22-42=-63/1146,

42-43=-63/1146, 21-43=-63/1146

4-24=-332/199, 6-24=-111/517, 6-22=-985/282, 7-22=-174/1270, 7-21=-950/173,

8-21=-710/172, 9-21=-171/1638, 9-19=-2173/333, 10-19=-871/238, 10-17=-6/390,

12-16=-373/100

NOTES-(12-15)

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; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 16-8-6, Exterior(2R) 10-8-6 to 26-3-10, Interior(1) 26-3-10 to 29-4-6, Exterior(2R) 29-4-6 to 38-11-10, Interior(1) 38-11-10 to 51-8-14, Exterior(2E) 51-8-14 to 56-6-8 zone; cantilever right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.
This truss has been designed for greater of min roof live load of 12.0 psf = 2.00.

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;

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) Provide adequate drainage to prevent water ponding.

7) All plates are 5x5 MT20 unless otherwise indicated.

8) 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.

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

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10/14/2025

Warning 1.43=163 (144) An and 15 to the rector 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 159 PROVIDENCE CREEK 546 PROVIDENCE	E CREEK DR FUQUAY-V	٩RI
25-8534-R01	R03	Piggyback Base	4	1	Job Reference (optional)	# 64059	

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:58 2025 Page 2 ID:kHdPkcON9g3_0IfrDBlgKRzexCS-leEg5Vm4Us9Mn1B_Q8WguEriiT?QpYZf8yIEAlyT91J

NOTES- (12-15)

- 11) 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.
- 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.
- 3) 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.

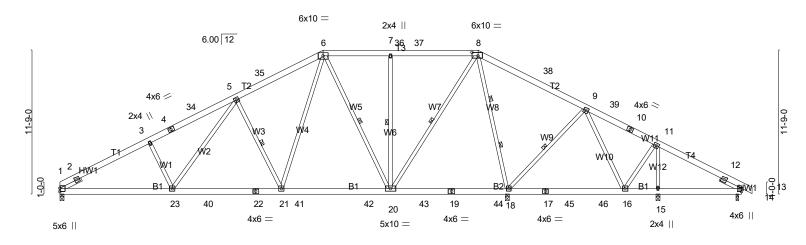
 15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



Job Truss Truss Type LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-V<mark>ARIN</mark> 25-8534-R01 R03A PIGGYBACK BASE # 64059 Job Reference (optional) 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:02 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-AQTBxtpbY5foFeUlf_ac34?Oi4MMIMZF3aGRJXyT91F 21-6-0 42-10-0 48-10-4 55-8-0 27-0-0 0-10-8 7-0-13 7-0-13 5-6-0 7-2-0 8-8-0 6-0-4 6-9-12

Scale = 1:94.1



9-2-5 9-2-5	18-1-3 8-10-13	27-0-0 8-10-13	36-6-4 9-6-4	46-0-0 9-5-12	48-10-4 55-5-8 55 _T 8-0 2-10-4 6-7-4 0-2-8
Plate Offsets (X,Y) [8:0-6-0,	0-3-8]				
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 IRC2021/TPI2014	CSI. TC 0.58 BC 0.65 WB 0.97 Matrix-AS	DEFL. in (loc) Vert(LL) -0.19 21-23 Vert(CT) -0.29 21-23 Horz(CT) 0.05 18		PLATES GRIP MT20 244/190 Weight: 435 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 *Except* B2: 2x6 SP DSS

WFBS 2x4 SP No.3 *Except* W8: 2x4 SP No.2

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

TOP CHORD BOT CHORD WFBS

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

5-21, 6-20, 7-20, 8-20, 9-18 1 Row at midpt

2 Rows at 1/3 pts 8-18

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

NOINEE

K. MORR

REACTIONS. All bearings 0-3-8 except (jt=length) 13=0-3-0.

(lb) - Max Horz 1=-173(LC 19)

Max Uplift All uplift 100 lb or less at joint(s) 15 except 1=-178(LC 14), 18=-163(LC 14), 13=-103(LC 15)

Max Grav All reactions 250 lb or less at joint(s) except 1=1525(LC 39), 18=3184(LC 45), 13=417(LC 43), 15=488(LC

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

TOP CHORD 1-2=-990/45, 2-3=-2576/335, 3-4=-2435/347, 4-34=-2367/353, 5-34=-2337/371,

5-35=-1792/353, 6-35=-1647/382, 6-36=-881/311, 7-36=-881/311, 7-37=-881/311,

8-37=-881/311, 8-38=0/860, 9-38=0/685, 10-11=-286/151

BOT CHORD $1-23 = -347/2219, \ 23-40 = -200/1832, \ 22-40 = -200/1832, \ 21-22 = -200/1832, \ 21-41 = -63/1148, \ 2$ 41-42=-63/1148, 20-42=-63/1148

3-23=-334/200, 5-23=-111/521, 5-21=-986/283, 6-21=-174/1271, 6-20=-950/173, 7-20=-710/172, 8-20=-172/1638, 8-18=-2172/335, 9-18=-870/238, 9-16=-5/389,

11-15=-370/100

NOTES-(12-15)

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; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-9-10, Interior(1) 4-9-10 to 16-8-6, Exterior(2R) 10-8-6 to 26-3-10, Interior(1) 26-3-10 to 29-4-6, Exterior(2R) 29-4-6 to 38-11-10, Interior(1) 38-11-10 to 51-8-14, Exterior(2E) 51-8-14 to 56-6-8 zone; cantilever right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.

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;

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) Provide adequate drainage to prevent water ponding.

7) All plates are 5x5 MT20 unless otherwise indicated.

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

Alumanna AK * 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 except (jt=lb)

MORRELITION 1/202 10/14/2025 Winning: 18=163 เปรียบ 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 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK D	R FUQUAY-VARI
25-8534-R01	R03A	PIGGYBACK BASE	1	1	Job Reference (optional) # 646	059

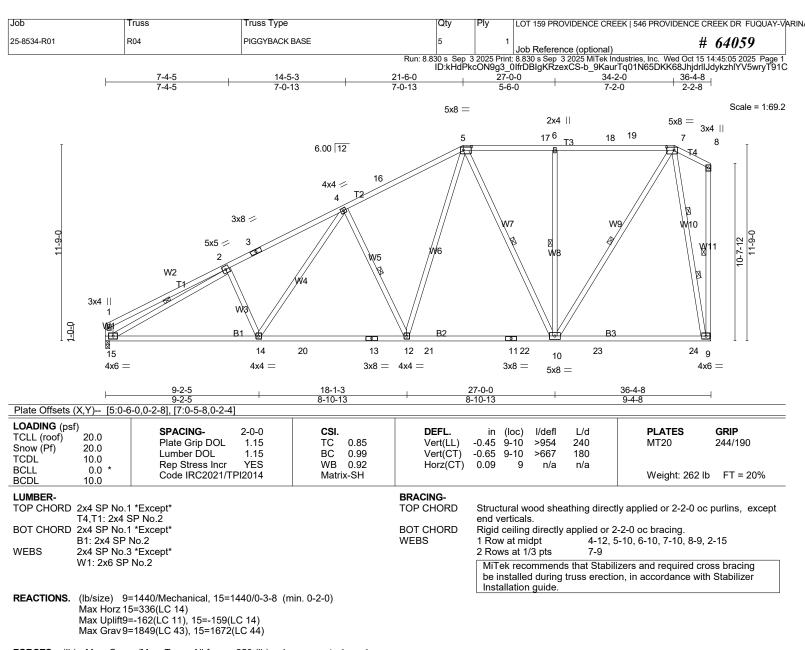
Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:03 2025 Page 2 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-ec1Z9DqDJOnfto3yDi5rblYZSUibUpoPHE0?rzyT91E

NOTES- (12-15)

- 11) 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.
- 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
- 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 RESTRICTIONS 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.

TOP CHORD 1-2=-479/132, 2-3=-2696/275, 3-4=-2490/303, 4-16=-2069/263, 5-16=-1922/285,

5-17=-1140/207, 6-17=-1140/207, 6-18=-1140/207, 18-19=-1140/207, 7-19=-1140/207,

1-15=-379/131

BOT CHORD 14-15=-503/2385, 14-20=-362/2064, 13-20=-362/2064, 12-13=-362/2064, 12-21=-244/1374,

11-21=-244/1374, 11-22=-244/1374, 10-22=-244/1374, 10-23=-56/311, 23-24=-56/311,

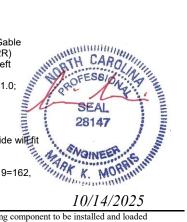
WEBS 4-14=-109/488, 4-12=-951/280, 5-12=-176/1211, 5-10=-742/188, 6-10=-747/182,

7-10=-232/1562, 2-15=-2446/149, 7-9=-1685/325

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; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-2-12 to 5-0-6, Interior(1) 5-0-6 to 16-8-6, Exterior(2R) 16-8-6 to 26-3-10, Interior(1) 26-3-10 to 29-4-6, Exterior(2R) 29-4-6 to 34-2-0, Exterior(2E) 34-2-0 to 36-2-12 zone; end vertical left 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) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 wi⊞fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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) 9=162, 15=159.



10/14/2025

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is not all the restaurable of page 2. Online on page 2. Online of page 3. Online of page 3. Online of page 3. Online of page 3. Online of page 4. Onli 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 159 PROVIDENCE CREEK 546 PROVIDENCE	CREEK DR FUQUAY-VAI
25-8534-R01	R04	PIGGYBACK BASE	5	1	Job Reference (optional)	# 64059

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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
- 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.

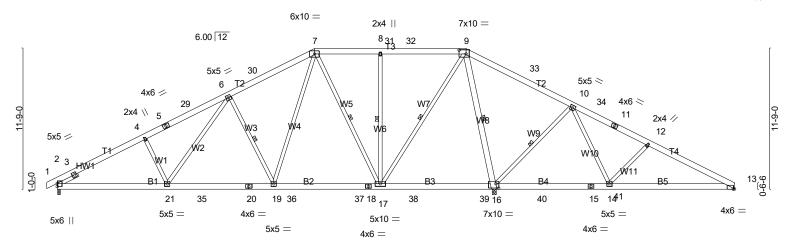
 13) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



Job Truss Truss Type LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-V<mark>ARIN</mark> 25-8534-R01 R05 Piggyback Base # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:08 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-?ZrSCwuM7xPy_Zxv?Fh0lLFP7VQK95P8RWjmWAyT919 34-2-0 42-11-1 49-3-14 56-7-4 21-6-0 27-0-0 14-5-3 0-10-8 7_4_5 7-0-13 7-0-13 5-6-0 7-2-0 8-9-1 6-4-13 7-3-6

Scale: 1/8"=1"



	9-2-5		8-10-	13	8-10-	13	9-6-4	,	9-7-	-4	10-5-12	
Plate Offsets (X,Y) [9:0-7-	-0,0-4-0], [13:0-1-4,Edge	e], [16:0-2-12	2,0-4-8]							
LOADING (psf TCLL (roof) Snow (Pf) TCDL BCLL BCDL	20.0 20.0 20.0 10.0 0.0 *	Plate Lum Rep	CING- e Grip DOL ber DOL Stress Incr e IRC2021/TF	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matri	0.65 0.61 0.94 x-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.18 19-21 -0.28 19-21 0.04 16		L/d 240 180 n/a	PLATES MT20 Weight: 441 lb	GRIP 244/190 FT = 20%

BRACING-

WFBS

TOP CHORD

BOT CHORD

36-6-4

46-1-8

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt

Installation guide.

27-0-0

LUMBER-

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

2x4 SP No.3 *Except* WFBS W8: 2x6 SP No.2

SLIDER Left 2x4 SP No.3 1-11-0

9-2-5

(lb/size) 2=1301/0-3-8 (min. 0-1-12), 16=2858/0-3-8 (min. 0-1-10), 13=422/Mechanical REACTIONS.

18-1-3

Max Horz 2=-170(LC 15)

Max Uplift2=-193(LC 14), 16=-194(LC 15), 13=-113(LC 15) Max Grav 2=1470(LC 39), 16=3590(LC 45), 13=536(LC 43)

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

TOP CHORD 2-3=-892/35, 3-4=-2378/301, 4-5=-2238/309, 5-29=-2171/321, 6-29=-2140/338,

6-30=-1577/317, 7-30=-1437/339, 7-31=-712/264, 8-31=-712/264, 8-32=-712/264, 9-32=-712/264, 9-33=0/1258, 10-33=-11/1055, 11-12=-380/171, 12-13=-633/192

 $2-21 = -339/2045, \ 21-35 = -196/1674, \ 20-35 = -196/1674, \ 19-20 = -196/1674, \ 19-36 = -75/1034, \ 19-20 = -196/1674, \ 19-36 = -75/1034, \$

36-37=-75/1034, 18-37=-75/1034, 17-18=-75/1034, 17-38=-478/238, 38-39=-478/238,

16-39=-478/238, 16-40=-372/107, 40-41=-372/107, 15-41=-372/107, 14-15=-372/107,

13-14=-93/527

4-21=-337/197, 6-21=-108/531, 6-19=-991/281, 7-19=-173/1260, 7-17=-1067/178,

8-17=-708/172, 9-17=-189/1744, 9-16=-2482/381, 10-16=-1156/292, 10-14=-42/632,

12-14=-395/185

NOTES-(13-16)

BOT CHORD

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; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 16-8-6, Exterior(2R) 16-8-6 to 26-3-10, Interior(1) 26-3-10 to 29-4-6, Exterior(2R) 29-4-6 to 38-11-10, Interior(1) 38-11-10 to 51-9-10, Exterior(2E) 51-9-10 to 56-7-4 zone; 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.

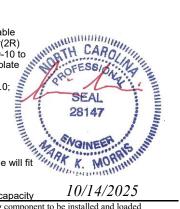
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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.

10/14/2025 10) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity

Working the suffect of the suffect of the sum of the su 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.



56-7-4

6-19, 7-17, 8-17, 9-17, 9-16, 10-16

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE	E CREEK DR FUQUAY-V	٩RI
25-8534-R01	R05	Piggyback Base	4	1	Job Reference (optional)	# 64059	

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NOTES- (13-16)

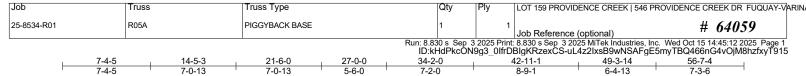
- 11) Provide mechánical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=193, 16=194, 13=113.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) 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.

 14) 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
- 15) 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.

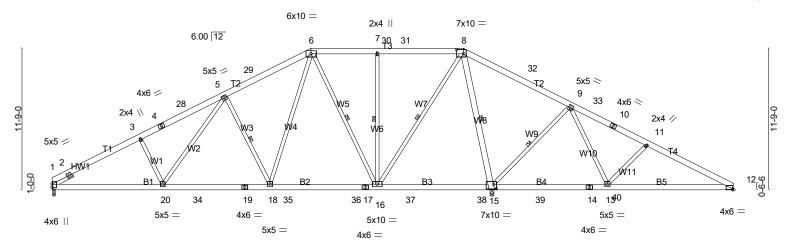
 16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





Scale: 1/8"=1"



	9-2-5	8-1	0-13	8-10-1		9-6-4	+	9-7-4		10-5-12	
Plate Offse	ets (X,Y) [8:0-7	'-0,0-4-0], [12:0-1-4,E	lge], [15:0-2-	12,0-4-8]							
LOADING (TCLL (roof) Snow (Pf) TCDL BCLL BCDL		SPACING- Plate Grip DOL Lumber DOL Rep Stress Inc Code IRC2021	1.15 r YES		0.65 0.61 0.94 x-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.18 1 -0.28 1 0.04	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 439 lb	GRIP 244/190 FT = 20%

BRACING-

WFBS

TOP CHORD

BOT CHORD

36-6-4

46-1-8

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt

Installation guide.

27_0_0

LUMBER-

REACTIONS.

BOT CHORD

WEBS

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

2x4 SP No.3 *Except* WFBS W8: 2x6 SP No.2

Left 2x4 SP No.3 1-11-0 SLIDER

0_2_5

(lb/size) 1=1248/0-3-8 (min. 0-1-11), 15=2857/0-3-8 (min. 0-1-10), 12=423/Mechanical

Max Horz 1=-176(LC 15)

Max Uplift1=-176(LC 14), 15=-194(LC 15), 12=-113(LC 15) Max Grav 1=1418(LC 38), 15=3589(LC 44), 12=535(LC 42)

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

TOP CHORD 1-2=-918/39, 2-3=-2383/302, 3-4=-2243/310, 4-28=-2176/322, 5-28=-2145/339,

18-1-3

5-29=-1579/319, 6-29=-1439/341, 6-30=-712/266, 7-30=-712/266, 7-31=-712/266, 8-31=-712/266, 8-32=0/1256, 9-32=-10/1053, 10-11=-377/169, 11-12=-630/192

 $1-20 = -340/2050,\ 20-34 = -196/1676,\ 19-34 = -196/1676,\ 18-19 = -196/1676,\ 18-35 = -75/1034,$

35-36=-75/1034, 17-36=-75/1034, 16-17=-75/1034, 16-37=-476/238, 37-38=-476/238, 15-38=-476/238, 15-39=-371/107, 39-40=-371/107, 14-40=-371/107, 13-14=-371/107,

12-13=-93/524

3-20=-339/198, 5-20=-109/534, 5-18=-992/282, 6-18=-173/1261, 6-16=-1067/178,

7-16=-708/172, 8-16=-191/1744, 8-15=-2481/383, 9-15=-1156/292, 9-13=-42/632,

11-13=-395/185

NOTES-(12-15)

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; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-9-10, Interior(1) 4-9-10 to 16-8-6, Exterior(2R) 16-8-6 to 26-3-10, Interior(1) 26-3-10 to 29-4-6, Exterior(2R) 29-4-6 to 38-11-10, Interior(1) 38-11-10 to 51-9-10, Exterior(2E) 51-9-10 to 56-7-4 zone; 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;

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

5) Provide adequate drainage to prevent water ponding.

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

grip DOL=1.60
TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pt=20.0 psi (Lum DOL
Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
Unbalanced snow loads have been considered for this design.
Provide adequate drainage to prevent water ponding.
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 between the bottom chord and any other members, with BCDL = 10.0psf.

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

9) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=176,

Wifinion National States 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 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.



56-7-4

5-18, 6-16, 7-16, 8-16, 8-15, 9-15

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE	CREEK DR FUQUAY-V	٩RI
25-8534-R01	R05A	PIGGYBACK BASE	1	1	Job Reference (optional)	# 64059	

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NOTES- (12-15)

- 11) 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.
- 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.
- 3) 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 RESTRICTIONS 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 LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-V<mark>ARIN</mark> 25-8534-R01 R06 Monopitch # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:14 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-qjCjSzy7jnA5iUP3MVoQYcVQowXNYzO0pSA4kqyT913 -0-10-8 0-10-8 6-9-12 12-9-2 19-0-0 6-9-12 5-11-6 6-2-14 Scale = 1:57.9 3x4 || 6 6.00 12 3x4 <> 12 3x6 / 10-6-0 3x4 < 3 3x10 < -0-0 B1 ∯ 11 3x4 Ⅱ 9 13 3x4 = 78 3x6 =3x4 =6-9-12 6-7-4 12-9-2 19-0-0 5-11-6 6-2-14 LOADING (psf) SPACING-GRIP CSI DEFL. PLATES 2-0-0 (loc) I/defl L/d TCLL (roof) 20.0 Plate Grip DOL 244/190 1.15 TC 0.70 Vert(LL) -0.067-8 >999 240 MT20 Snow (Pf) 20.0 вс Lumber DOL 1.15 0.38 Vert(CT) -0.11 7-8 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.21 Horz(CT) -0.01n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 126 lb Matrix-SH FT = 20% BCDL 10.0 BRACING-LUMBER-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. WFBS 2x4 SP No.3 *Except* BOT CHORD Rigid ceiling directly applied or 8-5-11 oc bracing. W1: 2x6 SP No.2 WFBS 1 Row at midpt 6-7, 5-7 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. REACTIONS. (lb/size) 7=493/Mechanical, 11=356/0-3-0 (min. 0-1-8), 10=707/0-3-8 (min. 0-1-8) Max Hórz 11=327(LC 14) Max Uplift7=-198(LC 14), 11=-26(LC 11), 10=-84(LC 14) Max Grav 7=631(LC 21), 11=362(LC 21), 10=734(LC 21)

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

3-4=-404/0, 4-5=-277/0, 2-11=-303/63 TOP CHORD

BOT CHORD 10-11=-454/278, 8-13=-122/301, 7-13=-122/301

WFBS 3-10=-579/120, 3-8=0/266, 5-7=-447/183, 2-10=-167/255

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 14-0-10, Exterior(2E) 14-0-10 to 18-10-4 zone; cantilever left exposed; end vertical left exposed; porch left 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.

* 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 members are a rectangle 3-6-0 tall by 1-0-0 wide will fit be trusted and the second and any other members, with BCDL = 10.0psf.

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) 11, 10 except (jt=lb

William Willia SEAL 28147 NOINEE K. MORR

10/14/2025

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR	FUQUAY-VARI
25-8534-R01	R06	Monopitch	3	1	Job Reference (optional) # 6405	9

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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
- 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



.lob Truss Truss Type LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-VARIN. 25-8534-R01 R07 Jack-Closed # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:15 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-lwm5gJzlU4lyJe_FwDJf5q2ZfKqeHNaA26wdGGyT912 13-1-14 19-11-4 6-7-15 6-7-15 6-5-14 6-0-6 Scale = 1:59.7 3x4 || 6.00 12 5 3x4 / 9 3x6 / 3 2x4 \ 2 9-9-0 8 7 10 3x4 6 3x8 || 3x4 =3x6 =3x6 =10-0-0 19-11-4 10-0-0 9-11-4 Plate Offsets (X,Y)-- [1:0-0-0,0-0-12], [1:0-2-7,Edge]

LOADING (ps TCLL (roof) Snow (Pf) TCDL	20.0 20.0 20.0 10.0	SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YE	5	CSI. TC BC WB	0.82 0.57 0.40	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.45 -0.62 0.02	(loc) 6-8 6-8	I/defl >526 >381 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 * 10.0	Code IRC2021/TPI201		Matri		11012(01)	0.02	U	II/a	II/a	Weight: 110 lb	FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 4-0-10 oc purlins, except end verticals

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

Installation guide

WERS 1 Row at midpt

5-6. 4-6 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

REACTIONS. (lb/size) 6=789/Mechanical, 1=789/Mechanical

Max Horz 1=348(LC 14) Max Uplift6=-231(LC 14), 1=-53(LC 14)

Max Grav 6=938(LC 20), 1=811(LC 20)

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

1-2=-1267/70, 2-3=-1015/14, 3-4=-882/40, 5-6=-261/111 TOP CHORD **BOT CHORD** 1-8=-337/1062, 7-8=-186/596, 7-10=-186/596, 6-10=-186/596

2-8=-360/202, 4-8=-41/641, 4-6=-835/263 WFBS

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; End Jack Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-12 to 4-10-6, Interior(1) 4-10-6 to 13-0-1, Exterior(2R) 13-0-1 to 19-9-8 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); ls=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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

no provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 6=231.

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 the structural of the symbols are only graphical representations of the structural of the symbols are only graphical representations of the structural of the symbols are only graphical representations of the structural of the symbols are only graphical representations of the symbols are only graphical representations.

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

Paraphical bracing representation does not depict the size, type of the Size of the size of 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 and the process of the size of the process of the size of th MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

MORRELITION 1/202 NOINE 4. MORRIS

10/14/2025

Job Truss Truss Type LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-VARIN 25-8534-R01 R08 GABLE # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:18 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-iVREIL?dm?gXA5iqbLtMiSgEZXyKUoVck48HtbyT91? -0-10-8 0-10-8 10-4-0 20-8-0 21-6-8 0-10-8 10-4-0 10-4-0 Scale = 1:45.2 3x6 = 8 9 7.00 12 10 6 31 5 30 11 32 29 12 STE 1-10-0 13 3x4 || 3 3x4 || ST2 14 15 1-1-0 W 28 27 26 25 24 23 22 21 20 19 18 17 16 3x6 = 3x4 || 3x4 || 20-8-0 20-8-0 Plate Offsets (X,Y)-- [8:0-3-0,Edge] 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 0.14 Vert(LL) -0.0015 n/r 180 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.12 Vert(CT) -0.00 15 n/r 80 TCDL 10.0 WB 0.14 Rep Stress Incr YES Horz(CT) 0.00 16 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 125 lb FT = 20% Matrix-R **BCDL** 10.0

LUMBER-

OTHERS

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

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing

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

REACTIONS. All bearings 20-8-0.

2x4 SP No.3

- Max Horz 28=171(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 28, 16, 24, 25, 26, 20, 19, 18 except 27=-125(LC 14), 17=-117(LC

Max Grav All reactions 250 lb or less at joint(s) 28, 16, 25, 26, 27, 19, 18, 17 except 23=281(LC 5), 24=292(LC 5), 22=281(LC 6), 20=292(LC 6)

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

(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 5-3-4, Corner(3R) 5-3-4 to 15-4-12, Exterior(2N) 15-4-12 to 16-8-14, Corner(3E) 16-8-14 to 21-6-8 zone; 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 🖏 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) 28, 16, 24, 25, 26, 20 , 19, 18 except (jt=lb) 27=125, 17=117.



10/14/2025

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is not an increase and read notes before use. This design is based only upon parameters shown, and is not an increase and increase. 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. Applicability of design parameters and proper incorporation of component is responsibility of building designer — not truss designer or truss engineer. 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	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR	FUQUAY-VARI
25-8534-R01	R08	GABLE	1	1	Job Reference (optional) # 6405	; 9

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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
- 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 LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-V<mark>ARIN</mark> 25-8534-R01 R09 Common Girder # 64059 3 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:23 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-3SF7L23mbYlpHsboOuSXPWN?SYVM9?XLuLs2XpyT90w 15-4-4 10-4-0 20-8-0 21-6-8 5-3-12 5-0-4 5-0-4 5-3-12 Scale = 1:42.1 4x4 = 5 7.00 12 3x6 < 3x6 < 6 4 4x4 / 4x4 > 3 HW • X 22 25 27 28 29 30 23 11 26 13 10 12 4x6 = 7x8 || 2x4 || 4x8 =2x4 || 7x8 || 5-3-12 5-3-12 10-4-0 15-4-4 20-8-0 5-0-4 5-0-4 5-3-12 LOADING (psf) SPACING-GRIP CSI. DEFL. **PLATES** 2-0-0 (loc) I/defl L/d TCLL (roof) 20.0 Plate Grip DOL -0.08 1Ò-1Ź 244/190 1.15 TC 0.51 Vert(LL) >999 240 MT20 Snow (Pf) 20.0 вс Lumber DOL 1.15 0.77 Vert(CT) -0.12 10-12 >999 180 TCDL 10.0

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.04

n/a

n/a

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

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

LUMBER-

BCLL

BCDL

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

0.0

10.0

SLIDER Left 2x6 SP No.2 1-11-0, Right 2x6 SP No.2 1-11-0

REACTIONS. (lb/size) 2=3644/0-3-8 (min. 0-1-8), 8=3429/0-3-8 (min. 0-1-8)

Rep Stress Incr

Code IRC2021/TPI2014

Max Horz 2=144(LC 11)

Max Uplift2=-840(LC 12), 8=-815(LC 13) Max Grav 2=3685(LC 19), 8=3470(LC 20)

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

2-3=-2217/465, 3-4=-4367/1015, 4-5=-3363/849, 5-6=-3362/849, 6-7=-4572/1108, TOP CHORD

7-8=-2312/509

BOT CHORD 2-22=-880/3677, 22-23=-880/3677, 13-23=-880/3677, 13-24=-880/3677, 24-25=-880/3677,

NO

WB 0.40

Matrix-MSH

12-25=-880/3677, 11-12=-863/3850, 11-26=-863/3850, 26-27=-863/3850, 10-27=-863/3850,

10-28=-863/3850, 28-29=-863/3850, 29-30=-863/3850, 8-30=-863/3850

WEBS 5-12=-739/2928, 6-12=-1272/410, 6-10=-315/1164, 4-12=-1055/312, 4-13=-197/921

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

5) 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

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

7) 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.

8) 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 w🏨 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) except (jt=lb) 2=846

, 509 lb down and 136 lb up at 2-7-4, 509 lb down and 136 lb up at 4-7-4, 509 lb down and 136 lb up at 6-7-4, 459 lb down and 145 lb up at 8-7-4, 459 lb down and 145 lb up at 10-7-4, 459 lb down and 145 lb up at 12-7-4, 459 lb down and 145 lb up at 13-10-8, 459 lb down and 145 lb up at 15-10-8, and 467 lb down and 142 lb up at 16-7-4, and 516 lb down and 133 lb up at 18-7-4 on bottom chord.

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Weight: 400 lb

FT = 20%

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WINTINGS ON PARTICLES THE CONTINUED SWIFE THE CONTINUED SWIFE THE CONTINUED SWIFE THE CONTINUED OF PARTICLES IN THE CONTINUED SWIFE THE CONTINUED OF PARTICLES IN THE CONTINUED OF PARTICL 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 159 PROVIDENCE CREEK 546 PROVIDENC	E CREEK DR FUQUAY-V
25-8534-R01	R09	Common Girder	1	3	Job Reference (optional)	# 64059

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:23 2025 Page 2 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-3SF7L23mbYlpHsboOuSXPWN?SYVM9?XLuLs2XpyT90w

- 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: 1-5=-60, 5-9=-60, 14-18=-20

Concentrated Loads (lb)

Vert: 12=-459(F) 16=-513(F) 22=-509(F) 23=-509(F) 24=-509(F) 25=-459(F) 26=-459(F) 27=-459(F) 28=-459(F) 29=-467(F) 30=-516(F)



Job Truss Type LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-VARIN Truss 25-8534-R01 R10 Common Supported Gable # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:25 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-?rMtmk5079YXWAIAVJV?UxSS6MLkd?TeLfL9chyT90u -0-10-8 0-10-8 6-4-0 12-8-0 13-6-8 6-4-0 6-4-0 0-10-8 Scale = 1:29.8 4x4 = 5 7.00 12 6 19 18 7 4-9-5 3 20 17 \$72 3x4 || 3x4 II 8 M 16 15 14 13 12 11 10 3x4 || 3x4 || 12-8-0 12-8-0 LOADING (psf) GRIP SPACING-CSI. DEFL. L/d PLATES 2-0-0 (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL 244/190 1.15 TC 0.12 Vert(LL) -0.00 ģ n/r 180 MT20 Snow (Pf) 20.0 вс Lumber DOL 1.15 0.07 Vert(CT) -0.009 n/r 80 TCDL 10.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 10 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 67 lb FT = 20% Matrix-R BCDL 10.0

LUMBER-

OTHERS

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

BRACING-

TOP CHORD

end verticals

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

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

REACTIONS. All bearings 12-8-0.

2x4 SP No 3

(lb) - Max Horz 16=120(LC 13)

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, 14, 15, 12, 11

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 3-11-2, Corner(3R) 3-11-2 to 8-8-14, Corner(3E) 8-8-14 to 13-6-8 zone; 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 co....
9) Truss to be fully sheathed from one race of co...
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 co....
12) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-b-u tall by confit 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, 12, 11.

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 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 unlift of licentification. 1/202 NOINEE K. MORR

10/14/2025

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is not an increase and read notes before use. This design is based only upon parameters shown, and is not an increase and increase. 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. Applicability of design parameters and proper incorporation of component is responsibility of building designer — not truss designer or truss engineer. 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	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR F	UQUAY-VARI
25-8534-R01	R10	Common Supported Gable	1	1	Job Reference (optional) # 64059	9

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:25 2025 Page 2 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-?rMtmk5079YXWAIAVJV?UxSS6MLkd?TeLfL9chyT90u

- 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 LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-VARIN 25-8534-R01 R11 Common # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:26 2025 Page 1 ID:kHdPkcON9g3_0IfrDBlgKRzexCS-T1wG_46euThO8KKN310E18?UomdiMRrnaJ4j87yT90t -0-10-8 0-10-8 13-6-8 0-10-8 6-4-0 12-8-0 6-4-0 6-4-0 Scale = 1:30.2 4x4 = 3 7.00 12 4-9-5 10 5x5 = 5x5 = W2 W2 6 4x8 = 3x4 || 3x4 || 6-4-0 6-4-0 6-4-0 Plate Offsets (X,Y)-- [2:0-1-8,0-1-8], [4:0-1-8,0-1-8] LOADING (psf) SPACING-CSI. DEFL. I/d **PLATES** GRIP 2-0-0 in (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.70 Vert(LL) -0.037-8 >999 240 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.34 Vert(CT) -0.06 7-8 >999 180 TCDL 10.0 WB 0.11 Horz(CT) Rep Stress Incr YES 0.00 6 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-SH Weight: 70 lb FT = 20% **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 *Except* BOT CHORD WFBS Rigid ceiling directly applied or 10-0-0 oc bracing W1: 2x4 SP No 2 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

Max Horz 8=120(LC 13)

Max Uplift8=-76(LC 14), 6=-76(LC 15) Max Grav 8=632(LC 21), 6=632(LC 22)

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

TOP CHORD 2-9=-597/83, 3-9=-454/111, 3-10=-454/111, 4-10=-597/83, 2-8=-577/160, 4-6=-577/157

BOT CHORD 7-8=-148/368, 6-7=-112/368 2-7=-47/272, 4-7=-51/272 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, Exterior(2R) 3-11-2 to 8-8-14, Exterior(2E) 8-8-14 to 13-6-8 zone; 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.

*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 after the contraction of the contra

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

- 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,
- Annumary Ak 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

MORRELINATION OF THE PARTY OF T -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 LOAD CHASE(S) in standardlesign 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

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K. MORR

Job Truss Truss Type LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-V<mark>ARIN</mark> 25-8534-R01 R12 Common Girder # 64059 2 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:29 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-uccOc68XBO3z?n2yk9Zxfnd1TzaZZkODGHJNISyT90q -0-10-8 0-10-8 13-6-8 6-4-0 12-8-0 3-3-12 3-3-12 3-0-4 3-0-4 3-3-12 Scale = 1:28.3 4x4 = 5 7.00 12 3x6 // 3x6 < 6 4x4 // 4x4 < 3 . W2 W HW1 HW1 9 1-1-0 14 16 12 11 10 6x8 || 2x4 || 4x8 =2x4 || 6x8 || 6-4-0 12-8-0 3-3-12 3-0-4 3-0-43-3-12 LOADING (psf) SPACING-GRIP CSI. DEFL. PLATES 2-0-0 (loc) I/defl L/d TCLL (roof) 20.0 Plate Grip DOL -0.03 1Ò-11 244/190 1.15 TC 0.48Vert(LL) >999 240 MT20 Snow (Pf) 20.0 вс Lumber DOL 1.15 0.65 Vert(CT) -0.05 10-11 >999 180 TCDL 10.0 Rep Stress Incr NO WB 0.38 Horz(CT) 0.01 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 175 lb FT = 20% Matrix-SH

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12 SLIDER

REACTIONS. (lb/size) 2=2072/0-3-8 (min. 0-1-8), 8=2694/0-3-8 (min. 0-1-10)

Max Horz 2=-95(LC 8)

Max Uplift2=-389(LC 12), 8=-376(LC 13) Max Grav 2=2148(LC 19), 8=2771(LC 20)

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

2-3=-2694/463, 3-4=-2652/486, 4-5=-2186/415, 5-6=-2184/415, 6-7=-3110/472, TOP CHORD

7-8=-3140/450

BOT CHORD 2-13=-402/2148, 12-13=-402/2148, 12-14=-402/2148, 11-14=-402/2148, 11-15=-336/2535,

10-15=-336/2535, 10-16=-336/2535, 8-16=-336/2535

WFRS 5-11=-340/1837, 6-11=-886/130, 6-10=-95/1080, 4-11=-374/146, 4-12=-109/494

(12-15)NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

5) 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

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

7) 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.

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) except (jt=lb) 2=389, 8=376

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 516 lb down and 133 lb up at 2-0-12, 516 lb down and 133 lb up at 4-0-12, 516 lb down and 133 lb up at 6-0-12, 515 lb down and 133 lb up at 8-0-12, and 791 lb down and 73 lb up at 9-5-4, and 791 lb down and 73 lb up at 11-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

OFOFESS! MORRIS INTERIOR DE LA CONTROL NOINEE AK K MORR

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

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

10/14/2025

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is not all the restaurable of page 2. Online on page 2. Online of page 3. Online of page 3. Online of page 3. Online of page 3. Online of page 4. Onli 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 159 PROVIDENCE CREEK 546 PROVIDENC	E CREEK DR FUQUAY-VAF
25-8534-R01	R12	Common Girder	1	2	Job Reference (optional)	# 64059

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:29 2025 Page 2 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-uccOc68XBO3z?n2yk9Zxfnd1TzaZZkODGHJNISyT90q

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: 1-5=-60, 5-9=-60, 2-8=-20

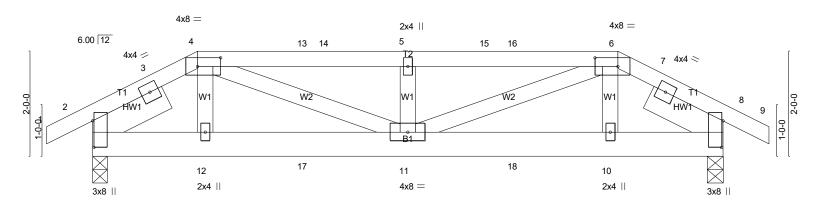
Concentrated Loads (lb)

Vert: 11=-516(F) 10=-791(F) 13=-516(F) 14=-516(F) 15=-515(F) 16=-791(F)



Job LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-VARIN Truss Truss Type Qtv 25-8534-R01 R13 Hip Girde # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:31 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-q?k91nAni?JhE5CKsabPkCiOHnMj1ffWkboTpLyT90o 12-10-8 -0-10-8 2-0-0 6-0-0 10-0-0 12-0-0 0-10-8 2-0-0 4-0-0 4-0-0 2-0-0 0-10-8

Scale = 1:21.9



2-	0-0 4-	0-0 +	10-0-0 4-0-0	12-0-0 2-0-0
	-1,0-0-5], [4:0-5-4,0-2-0], [6:0-5-4,0-2	<u>2-0], [8:0-6-1,0-0-5]</u>		
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 NO Code IRC2021/TPI2014	CSI. TC 0.40 BC 0.22 WB 0.27 Matrix-SH	DEFL. in (loc) l/defl L/d Vert(LL) -0.04 11 >999 240 Vert(CT) -0.06 11 >999 180 Horz(CT) 0.01 8 n/a n/a	PLATES GRIP MT20 244/190 Weight: 74 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x6 SP No.2 1-6-12, Right 2x6 SP No.2 1-6-12

REACTIONS. (lb/size) 2=531/0-3-8 (min. 0-1-8), 8=531/0-3-8 (min. 0-1-8)

Max Horz 2=-21(LC 17)

Max Uplift2=-182(LC 9), 8=-182(LC 8) Max Grav 2=616(LC 36), 8=616(LC 36)

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

TOP CHORD 2-3=-863/256, 3-4=-838/260, 4-13=-1294/382, 13-14=-1293/382, 5-14=-1293/382, 5-15=-1293/382, 15-16=-1293/382, 6-16=-1294/382, 6-7=-838/261, 7-8=-863/257

BOT CHORD 2-12=-209/690, 12-17=-211/694, 11-17=-211/694, 11-18=-199/694, 10-18=-199/694, 8-10=-197/690

WFBS 4-11=-183/646, 5-11=-461/113, 6-11=-184/646

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; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; 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.

 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 be between the bottom chord and any other members.

 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb areas (c) as all by 1-0-0 wide will be a second connection (by others) of truss to bearing plate capable of withstanding 100 lb areas (c) as all by 1-0-0 wide will be a second connection (by others) of truss to bearing plate capable of withstanding 100 lb areas (c) as all by 1-0-0 wide will be a second connection (by others) of truss to bearing plate capable of withstanding 100 lb areas (c) as all by 1-0-0 wide will be a second connection (by others) of truss to bearing plate capable of withstanding 100 lb areas (c) as all by 1-0-0 wide will be a second connection (by others) of truss to bearing plate capable of withstanding 100 lb areas (c) as all by 1-0-0 wide will be a second connection (by others) of truss to bearing plate capable of withstanding 100 lb areas (c) as all by 1-0-0 wide will be a second connection (by others) of truss to bearing plate capable of withstanding 100 lb areas (c) as all by 1-0-0 wide will be a second connection (by others) of truss to bearing plate capable of withstanding 100 lb areas (c) as all by 1-0-0 wide will be a second connection (by others) of truss to bearing plate capable of withstanding 100 lb areas (c) as a second connection (by others) of truss to bearing plate capable of withstanding 100 lb areas (c) as a second connection (c) as a second connection
- Provide mechanical connection. 23:182.

 Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 27 lb down and 31 lb up at 2-0-3, 27 lb down and 30 lb up at 4-0-12, 27 lb down and 30 lb up at 8-0-12, and 27 lb down and 31 lb up at 8-0-12, and 27 lb down and 31 lb up at 10-0-0 on top chord, and 7 lb down and 21 lb up at 2-0-12, 7 lb down and 21 lb up at 8-0-12, and 7 lb down and 21 lb up at 9-11-4 on bottom chord. The design/selection of such 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 27 lb down and 31 lb up at 2-0-🗓

11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

MiTek recommends that Stabilizers and required cross bracing

be installed during truss erection, in accordance with Stabilizer

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

Installation guide.

10/14/2025

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUA	/-VARIN
25-8534-R01	R13	Hip Girder	1	1	Job Reference (optional) # 64059	

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:32 2025 Page 2 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-IBHXE7APTJRYsFnWPH7eHPFZ1Aiym5vgyFX1MnyT90n

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, 4-6=-60, 6-9=-60, 2-8=-20 Concentrated Loads (lb)

Vert: 12=1(F) 11=1(F) 10=1(F) 17=1(F) 18=1(F)



Job Truss Type LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-VARIN Truss 25-8534-R01 R14 Hip # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:33 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-mNrvSTB1EcZOTPMjz?etpdol2a34VaNpBvHauEyT90m -0-10-8 4-0-0 8-0-0 12-0-0 0-10-8 4-0-0 4-0-0 4-0-0 0-10-8 Scale = 1:21.9 4x8 = 4x4 =3 T2 6.00 12 3x8 > 3x8 / 12 W3 W3 5 6 W ç **B**1 9 8 4x4 =4x8 =3x4 || 3x4 || 4-0-0 8-0-0 12-0-0 4-0-0 4-0-0 4-0-0 Plate Offsets (X,Y)-- [3:0-5-4,0-2-0] LOADING (psf) SPACING-DEFL. I/d **PLATES** GRIP 2-0-0 CSI. in (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.38 Vert(LL) -0.01 8-9 >999 240 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.17 Vert(CT) -0.02 8-9 >999 180 TCDL 10.0 WB 0.19 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 67 lb Matrix-SH FT = 20%**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

WFBS

2x4 SP No.3 *Except* W1: 2x6 SP No.2

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing

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

REACTIONS. (lb/size) 10=528/0-3-8 (min. 0-1-8), 7=528/0-3-8 (min. 0-1-8)

Max Horz 10=52(LC 13)

Max Uplift10=-123(LC 11), 7=-123(LC 10) Max Grav 10=673(LC 39), 7=673(LC 39)

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

TOP CHORD 2-11=-673/334, 3-11=-601/350, 3-4=-535/343, 4-12=-601/352, 5-12=-673/337,

2-10=-634/304, 5-7=-634/301

BOT CHORD 8-9=-207/537

WEBS 2-9=-200/458, 5-8=-180/458

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; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 4-0-0, Exterior(2R) 4-0-0 to 8-0-0, Exterior(2E) 8-0-0 to 12-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; 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) 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) Provide adequate drainage to prevent water ponding.

7) 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 wilt fit between the bottom chord and any other members.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=123, 7=123.

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10/14/2025

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is not an increase and read notes before use. This design is based only upon parameters shown, and is not an increase and increase. 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. Applicability of design parameters and proper incorporation of component is responsibility of building designer — not truss designer or truss engineer. 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	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE	CREEK DR FUQUAY-VA	ιRI
25-8534-R01	R14	Hip	1	1	Job Reference (optional)	# 64059	

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:34 2025 Page 2 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-EaPHfpCf?whF5ZvvXi96MqKwo_PJE1dzQZ08QgyT90I

- 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.

LOAD CASE(S) Standard



.lob Truss Truss Type LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-V<mark>ARIN</mark> 25-8534-R01 R15 Common # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:35 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-imzfs9DImEp6jiW55QgLu2t0EOjXzV_6eDmhy6yT90k -0-10-8 0-10-8 12-10-8 6-0-0 12-0-0 6-0-0 6-0-0 0-10-8 Scale = 1:25.9 4x4 = 3 6.00 12 10 W3 12 3x6 < 3x6 / Wt ₩2 7 4x8 =3x4 || 3x4 II 12-0-0 6-0-0 6-0-0 Plate Offsets (X,Y)-- [2:0-1-0,0-1-8], [4:0-1-0,0-1-8] LOADING (psf) SPACING-CSI. DEFL. I/d **PLATES** GRIP 2-0-0 in (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.65 Vert(LL) -0.027-8 >999 240 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.30 Vert(CT) -0.05 7-8 >999 180 TCDL 10.0 WB 0.12 Rep Stress Incr YES Horz(CT) 0.00 6 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 65 lb Matrix-SH FT = 20%**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 *Except* BOT CHORD WFBS Rigid ceiling directly applied or 10-0-0 oc bracing W1: 2x6 SP No 2 MiTek recommends that Stabilizers and required cross bracing

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

REACTIONS. (lb/size) 8=528/0-3-8 (min. 0-1-8), 6=528/0-3-8 (min. 0-1-8)

Max Horz 8=-63(LC 12)

Max Uplift8=-85(LC 11), 6=-85(LC 10) Max Grav 8=612(LC 21), 6=612(LC 22)

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

TOP CHORD 2-9=-583/305, 9-10=-454/317, 3-10=-438/328, 3-11=-438/328, 11-12=-454/317,

4-12=-583/305, 2-8=-561/296, 4-6=-561/293

BOT CHORD 7-8=-126/376, 6-7=-141/376 2-7=-48/283, 4-7=-51/283 **WEBS**

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, Exterior(2R) 3-11-2 to 8-0-14, Exterior(2E) 8-0-14 to 12-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; 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) 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.

* 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.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb areas to be a provide member with the member with the member with the size the size the member with the size the size

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

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

10/14/2025

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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	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-	VARIN
25-8534-R01	R15	Common	3	1	Job Reference (optional) # 64059	

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:35 2025 Page 2 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-imzfs9DImEp6jiW55QgLu2t0E0jXzV_6eDmhy6yT90k

LOAD CASE(S) Standard



Joh Truss Truss Type LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-VARIN 25-8534-R01 VT01 Valley # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:36 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-ByX24VDwXXxzLs4le7BaRFPFzo2qiyKFttVEVYyT90j 19-7-2 9-9-9 a_a_a Scale = 1:37.1 4x4 = 3 7.00 12 2x4 || 2x4 || 2 J1 10 T1 3x4 🖊 3x4 < 8 12 6 11 5x5 = 2x4 || 2x4 || 19-7-2 Plate Offsets (X,Y)-- [7:0-2-8,0-3-0] 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 0.40 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.36 Vert(CT) n/a n/a 999 TCDL 10.0 WB 0.11 Rep Stress Incr YES Horz(CT) 0.00 5 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 77 lb FT = 20% Matrix-SH **BCDL** 10.0 LUMBER-BRACING-Structural wood sheathing directly applied or 6-0-0 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.3 BOT CHORD 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 19-7-2 (lb) - Max Horz 1=-119(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-153(LC 14), 6=-153(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=388(LC 6), 8=567(LC 20), 6=567(LC 21)

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

2-8=-438/189, 4-6=-438/189

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=95mpn; 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) 0-6-8 to 5-4-1, Exterior(2R) 5-4-1 to 14-3-1, Exterior(2E) 14-3-1 to 19-0-11 zone; 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.
- * 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.
- o=153, b=153.

 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 bosing symbols are only graphical representations of a possible bosing symbols.

- structural design of the truss to support the loads inuicated.

 11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guiue to GCCI.

 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.

 ***INIMITIAL BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE

 ***INIMITIAL BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITIONAL BRACING

 ***INIMITIAL BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITIONAL BRACING

 ***INIMITIAL BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITIONAL BRACING

 ***INIMITIAL BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITIONAL BRACING

LOAD CASE(S) Standard

10/14/2025

MORRES MO 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.

.lob Truss Truss Type LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-VARIN. 25-8534-R01 VT02 Valley # 64059 Job Reference (optional) Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:37 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-f85QHrEYlr3qy0fUCrip_TySQBReRP3P6XFo1?yT90i 8-1-0 16-2-0 8-1-0 8-1-0 Scale = 1:30.6 4x4 = 3 7.00 12 2x4 || 2x4 || 4 T1 2 P 10 XXXXX3x4 < 3x4 / 9 8 7 6 2x4 || 2x4 II 2x4 || 3x6 =16-2-0 16-2-0 LOADING (psf) SPACING-GRIP CSI. DEFL. PLATES 2-0-0 in I/defl L/d TCLL (roof) 20.0 Plate Grip DOL 244/190 1.15 TC 0.29Vert(LL) n/a n/a 999 MT20 Snow (Pf) 20.0 вс Lumber DOL 1.15 0.19 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr YES WB 0.08 Horz(CT) 0.00 5 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Weight: 62 lb FT = 20% Matrix-SH BCDL 10 0 BRACING-LUMBER-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. BOT CHORD 2x4 SP No.3 BOT CHORD OTHERS 2x4 SP No.3 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

Installation guide.

All bearings 16-2-0. REACTIONS.

(lb) - Max Horz 1=-97(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-122(LC 14), 6=-121(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=278(LC 20), 9=468(LC 20), 6=468(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-9=-379/154, 4-6=-379/154

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) 0-6-8 to 5-4-1, Exterior(2R) 5-4-1 to 10-9-15, Exterior(2E) 10-9-15 to 15-7-8 zone; 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.
- * 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.
- 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.

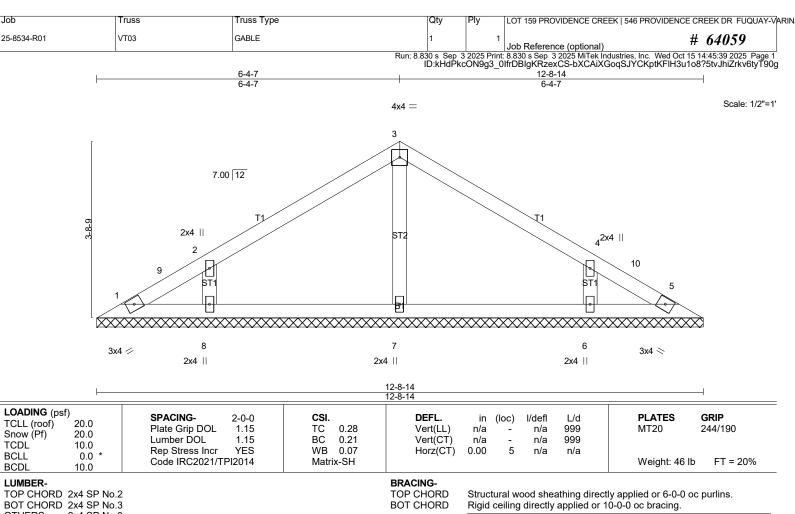
 11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines installing. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb)

- 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

1/202: 10/14/2025

NOINEE NOINE MORRE



OTHERS 2x4 SP No.3

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

All bearings 12-8-14. REACTIONS.

(lb) - Max Horz 1=75(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-104(LC 14), 6=-104(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=292(LC 20), 8=420(LC 20), 6=420(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-8=-365/140, 4-6=-365/140

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) 0-6-8 to 5-4-1, Exterior(2R) 5-4-1 to 7-4-13, Exterior(2E) 7-4-13 to 12-2-6 zone; 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.
- * 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=104, 6=104.

 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.

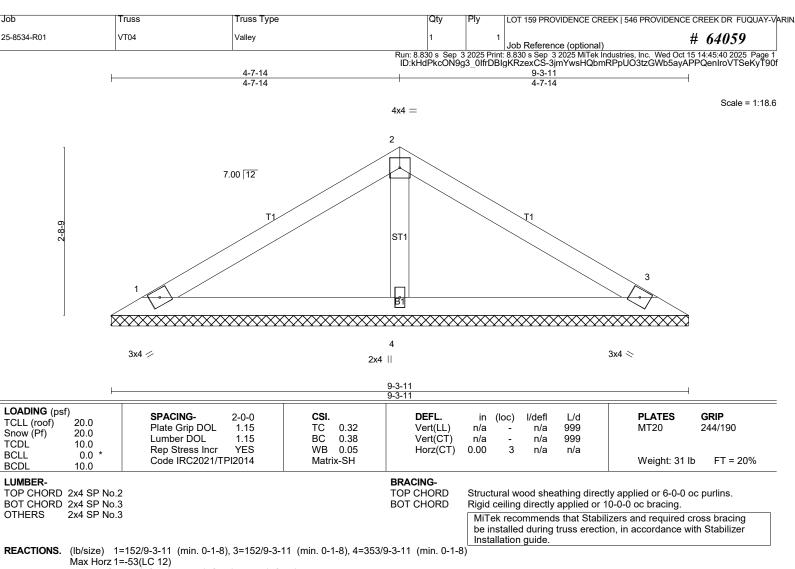
 10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

 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 in additional bracing guidelines. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb)

- 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

MORRELINATION 1/2025 MONES & MORRIS 10/14/2025



Max Uplift1=-28(LC 14), 3=-35(LC 15), 4=-23(LC 14) Max Grav 1=220(LC 20), 3=220(LC 21), 4=364(LC 21)

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 Exterior(2E) zone; 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
- web pracing shown is for lateral support the loads indicated.

 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 CONSIDERATIONS

 CONSIDERATIONS

 CONSIDERATIONS 12) SEE BČŠI-B3 SUMMĀRY SHĒET- PERMANENT RESTRAING/BRACING OF CHORDS & WĒB MEMBERS FOR ŘECŎMMENDED CONSIDERATIONS.

LOAD CASE(S) Standard



10/14/2025

.lob Truss Type Truss LOT 159 PROVIDENCE CREEK | 546 PROVIDENCE CREEK DR FUQUAY-VARIN VT05 25-8534-R01 Valley # 64059 Job Reference (optional) un: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:41 2025 Page 1 ID:kHdPkcON9g3_0lfrDBlgKRzexCS-XwKx7CH2M4ZGRdzFRgnl8J7AhpjoNEJ?19D?AmyT90e 2-11-5 5-10-9 2-11-5 Scale = 1:12.9 3x6 =2 7.00 12 3 B1 2x4 < 2x4 / 5-10-9 Plate Offsets (X,Y)-- [2:0-3-0,Edge] 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 0.14 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 вс 0.50 Vert(CT) n/a n/a 999 TCDL 10.0 WB 0.00 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-P Weight: 17 lb FT = 20% BCDL 10.0

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-10-9 oc purlins. 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) 1=192/5-10-9 (min. 0-1-8), 3=192/5-10-9 (min. 0-1-8)

Max Horz 1=31(LC 11)

Max Uplift1=-23(LC 14), 3=-23(LC 15) Max Grav 1=221(LC 20), 3=221(LC 21)

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

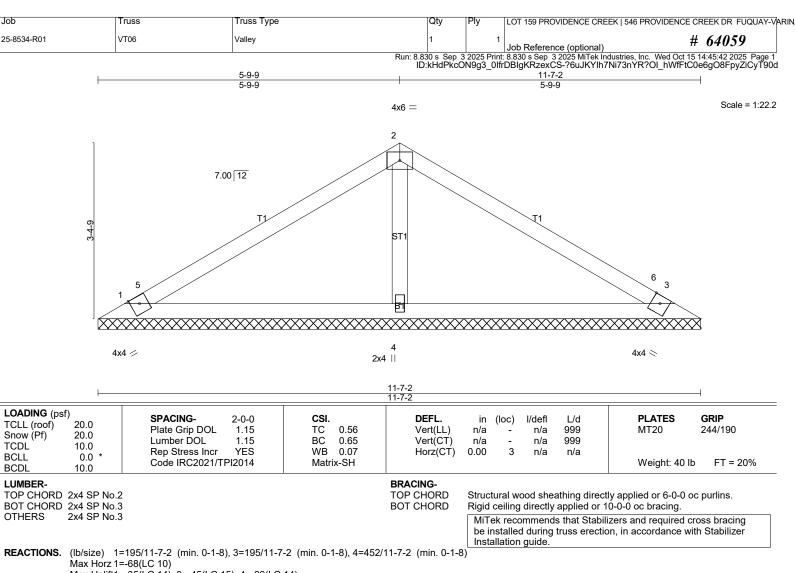
- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left and right 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.
- 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
- 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 ADDITIONAL CONSIDERATIONS. 11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, 12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED

LOAD CASE(S) Standard

ORARE LINE NOINEE K. MORR

10/14/2025



Max Uplift1=-35(LC 14), 3=-45(LC 15), 4=-29(LC 14) Max Grav 1=272(LC 20), 3=272(LC 21), 4=472(LC 20)

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

WEBS 2-4=-295/93

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) 0-6-8 to 5-4-1, Exterior(2R) 5-4-1 to 6-3-1, Exterior(2E) 6-3-1 to 11-0-11 zone; 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.
- * 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 or OFESE 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 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 BČŠI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR ŘECŎMMENDE 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

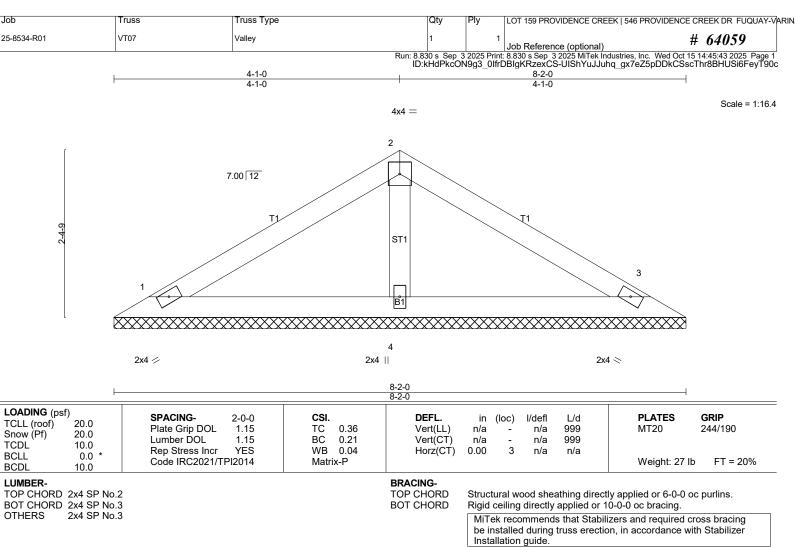


SEAL

28147

WOINER

ARK K. MORRI



REACTIONS. (lb/size) 1=148/8-2-0 (min. 0-1-8), 3=148/8-2-0 (min. 0-1-8), 4=271/8-2-0 (min. 0-1-8)

Max Horz 1=-46(LC 12)

Max Uplift1=-32(LC 14), 3=-39(LC 15), 4=-2(LC 14) Max Grav 1=202(LC 20), 3=202(LC 21), 4=275(LC 21)

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

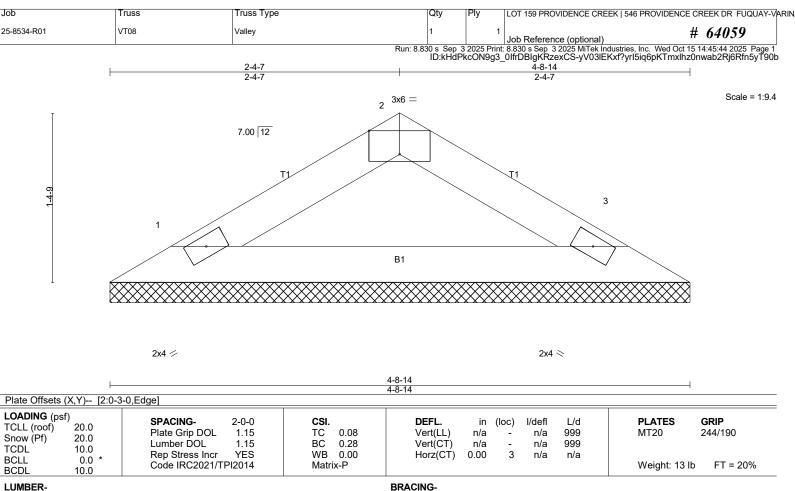
1) Unbalanced roof live loads have been considered for this design.

- 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 Exterior(2E) zone; 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
- vveo pracing 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 WER PLANES IN ACCUMENTATION CONSIDERATIONS. 12) SEE BČŠI-B3 SUMMĀRY SHĒET- PERMANENT RESTRAING/BRACING OF CHORDS & WĒB MEMBERS FOR ŘECŎMMENDED CONSIDERATIONS.

LOAD CASE(S) Standard



10/14/2025



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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 4-8-14 oc purlins. 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) 1=146/4-8-14 (min. 0-1-8), 3=146/4-8-14 (min. 0-1-8)

Max Horz 1=-24(LC 12) Max Uplift1=-17(LC 14), 3=-17(LC 15) Max Grav 1=164(LC 20), 3=164(LC 21)

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 Exterior(2E) zone; 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.
- 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
- 11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, 12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED

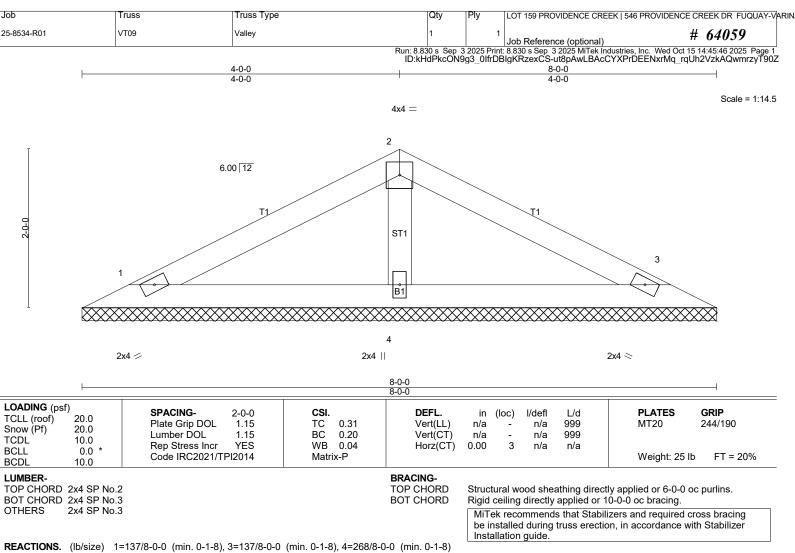
Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED.

MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES IN ADDITIONAL CONSIDERATIONS.

LOAD CASE(S) Standard

ORAS INTERIOR NOINEE K. MORR

10/14/2025



Max Horz 1=25(LC 18)

Max Uplift1=-30(LC 14), 3=-35(LC 15), 4=-5(LC 14)

Max Grav 1=183(LC 20), 3=183(LC 21), 4=268(LC 1)

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 Exterior(2E) zone; 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
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- 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
- web pracing shown is for lateral support the loads indicated.

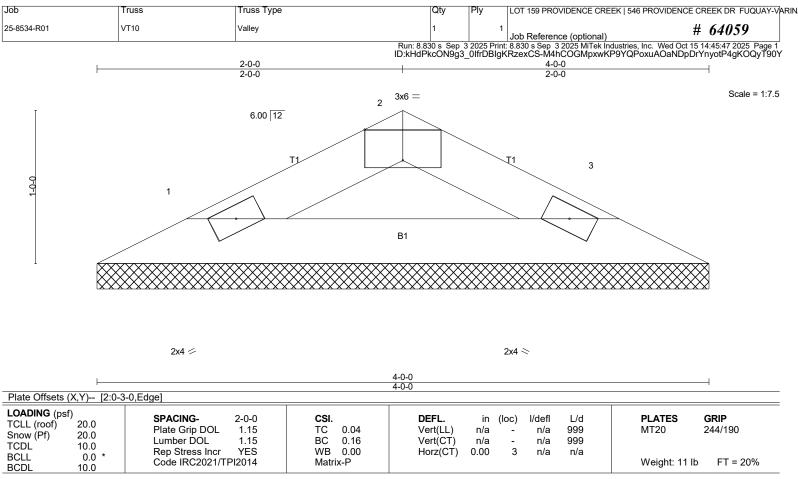
 Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES IN CONSIDERATIONS

 CONSIDERATIONS

 CONSIDERATIONS 12) SEE BČŠI-B3 SUMMĀRY SHĒET- PERMANENT RESTRAING/BRACING OF CHORDS & WĒB MEMBERS FOR ŘECŎMMENDED CONSIDERATIONS.

LOAD CASE(S) Standard

1/202 NOINEE K. MORR



LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 BRACING-

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

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

REACTIONS. (lb/size) 1=111/4-0-0 (min. 0-1-8), 3=111/4-0-0 (min. 0-1-8)

Max Horz 1=10(LC 14)

Max Uplift1=-13(LC 14), 3=-13(LC 15) Max Grav 1=119(LC 20), 3=119(LC 21)

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 Exterior(2E) zone; 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.
- 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
- 11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling,
- 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 ADDITIONAL CONSIDERATIONS. 12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED

LOAD CASE(S) Standard

MORRELINATION 1/2025 NOINEE A. MORRIS

10/14/2025