

Mark Morris, P.E.

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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,



10/14/2025

Mark Morris

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

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

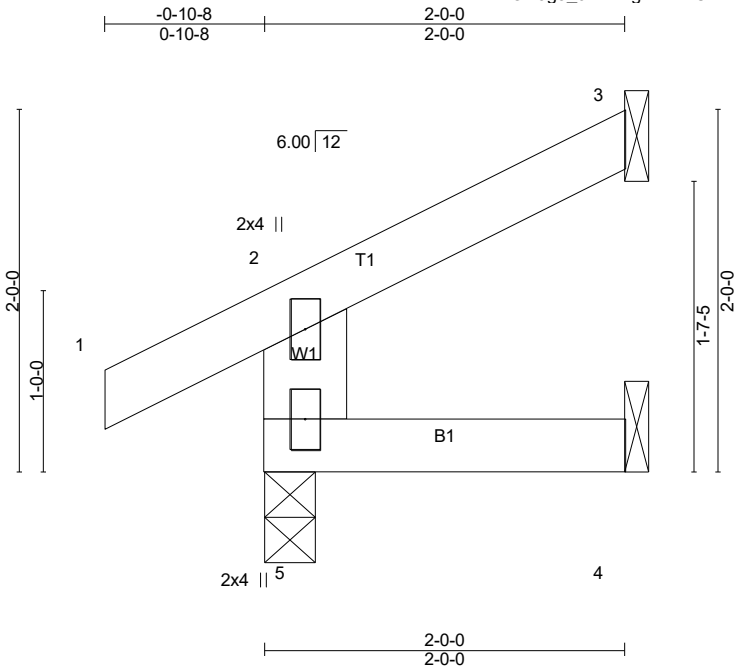
This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is 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

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	J01	Jack-Open	5	1	

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64059

Job Reference (optional)



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

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2

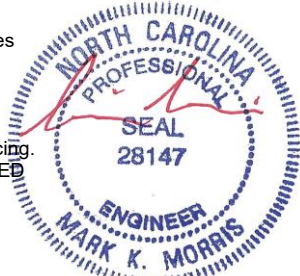
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation 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 Uplift 5=-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.

- NOTES-** (10-13)
- 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; 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
 - 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 or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/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.

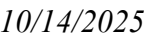
LOAD CASE(S) Standard



10/14/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	PB01	GABLE	2	1	Job Reference (optional) # 64059

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- 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



10/14/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA NC 28147
25-8534-R01	PB02	Piggyback	25	1	
					Job Reference (optional) # 64059

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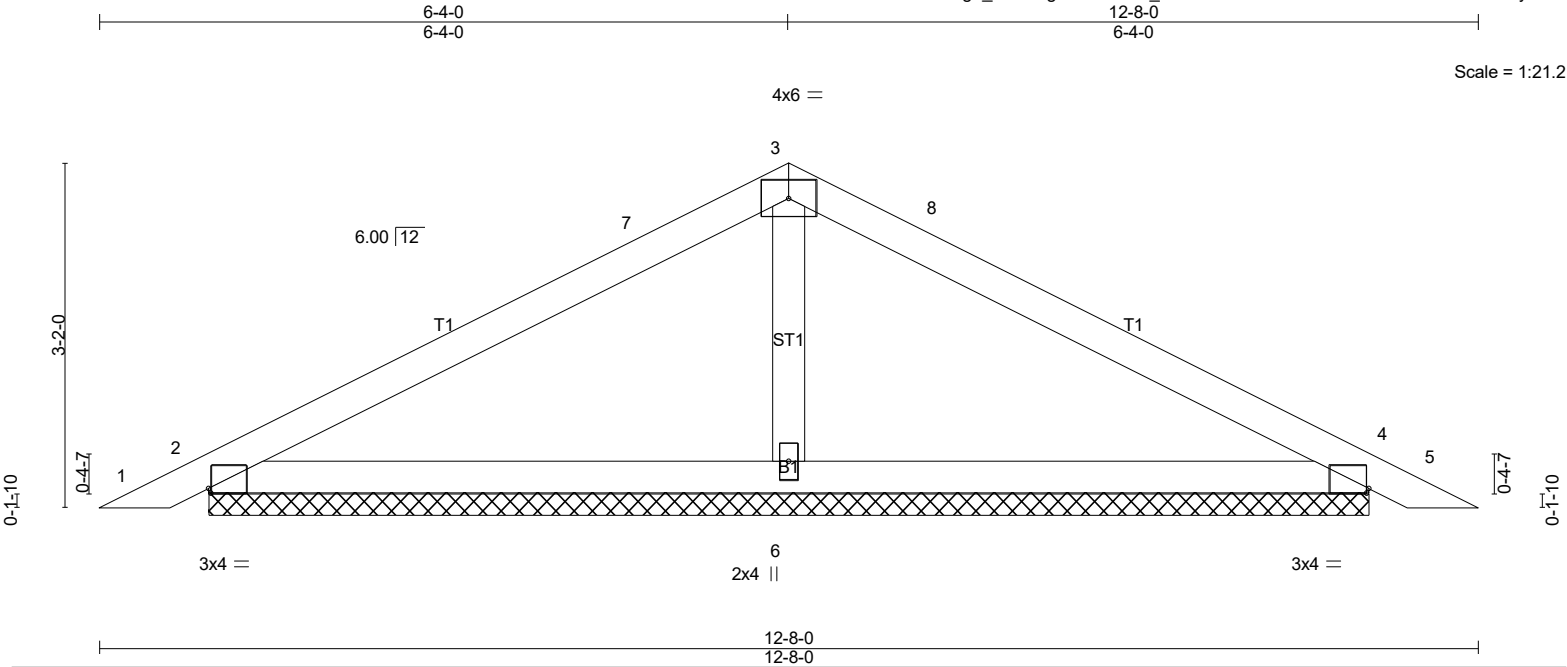


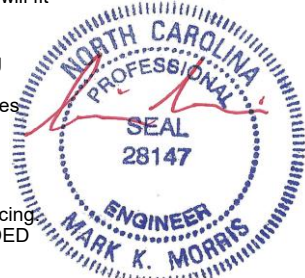
Plate Offsets (X,Y)-- [2:0-0-4,Edge], [4:0-0-4,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL (roof)	20.0	2-0-0	Plate Grip DOL	1.15	TC 0.56	in (loc)	l/defl	L/d	
Snow (Pf)	20.0		Lumber DOL	1.15	BC 0.61	Vert(LL)	0.01 5	n/r	180
TCDL	10.0		Rep Stress Incr	YES	WB 0.07	Vert(CT)	0.02 5	n/r	80
BCLL	0.0 *		Code IRC2021/TPI2014		Matrix-SH	Horz(CT)	0.00 4	n/a	n/a
BCDL	10.0								
								Weight: 40 lb	FT = 20%

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 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 Uplift 2=-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.
WEBS 3-6=-305/144

- NOTES-** (11-14)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=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
 - TCCL: 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 or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/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.



10/14/2025

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

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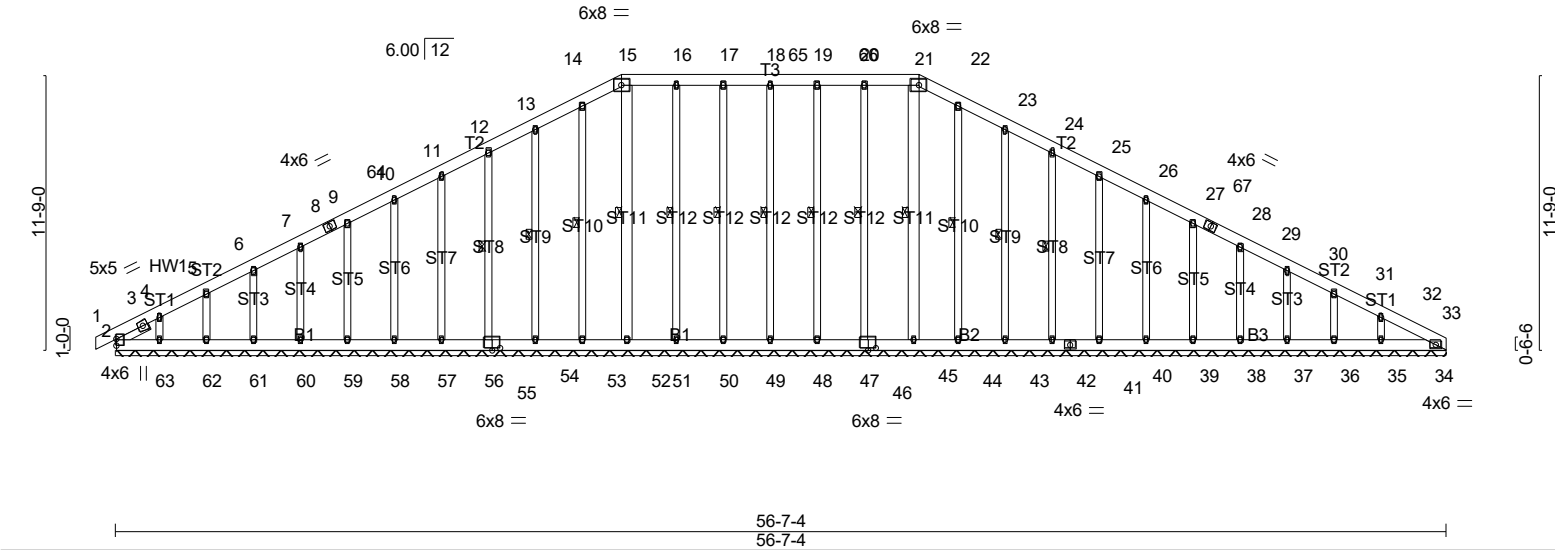


Plate Offsets (X,Y)-- [47:0-4-0,0-1-4], [55:0-4-0,0-1-4]					
LOADING (psf)		SPACING-		CSI.	
TCLL (roof)	20.0	2-0-0		TC	0.05
Snow (Pf)	20.0	Plate Grip DOL	1.15	BC	0.04
TCDL	10.0	Lumber DOL	1.15	WB	0.21
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-SH	
BCDL	10.0	Code IRC2021/TPI2014			
				DEFL.	
				Vert(LL)	-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-		BRACING-	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3 *Except*	WEBS	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
SLIDER	Left 2x4 SP No.3 1-6-4		

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

- NOTES-** (14-17)
- 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; 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 DOL=1.60 plate grip DOL=1.60
 - 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.
 - 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 or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - 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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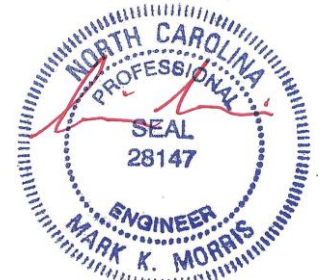
Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	R01	Piggyback Base Supported Gable	2	1	Job Reference (optional) # 64059

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NOTES- (14-17)

- 13) Provide mechanical 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.
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- 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/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.

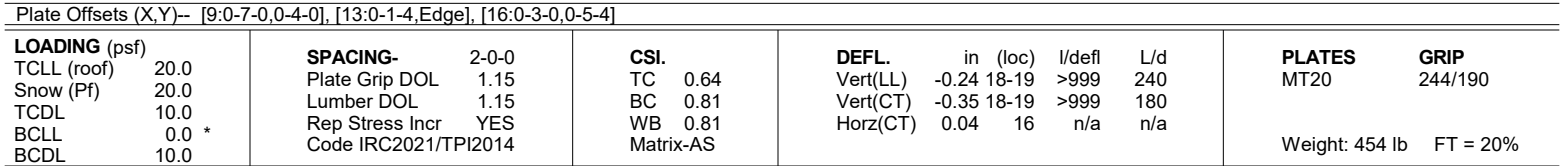
LOAD CASE(S) Standard



10/14/2025

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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 Horz2=-170(LC 15)
Max Uplift2=-184(LC 14), 16=-111(LC 15), 13=-116(LC 15)
Max Grav2=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

WEBS 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- (17-20)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCFL=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 exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TLL: 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

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA
25-8534-R01	R02	Piggyback Base	4	1	
					Job Reference (optional) # 64059

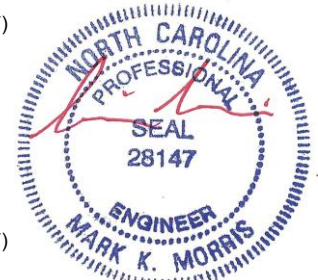
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ID:kHdPkcoN9g3_0lfrDBlgKRzexCS-aS6TRGR8rZIB1tcoLzXLIYD4XblT_OOhxGGIjqyT91k

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 RESTRAINING/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: 1-7=-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
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: 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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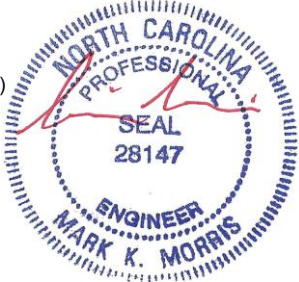
Continued on page 3

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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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
- 109) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-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
- 110) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-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

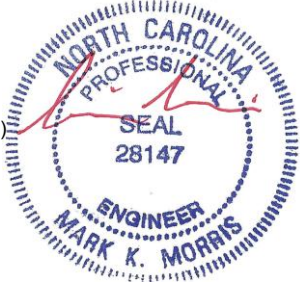
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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA NC 28147
25-8534-R01	R02	Piggyback Base	4	1	Job Reference (optional) # 64059

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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
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
- 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: 1-5=-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
- 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

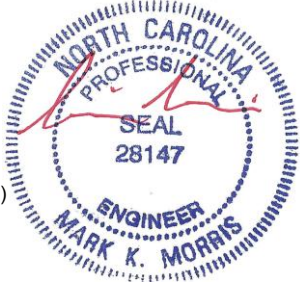
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer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

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
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 5
ID:kHdPkcoN9g3_0lfrDBlgKRzcxCS-aS6TRGR8rZIB1tcoLzXLIYD4XblT_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)
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
- 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)
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: 1-5=-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
- 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: 1-5=-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
- 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)



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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA NC 28147
25-8534-R01	R02	Piggyback Base	4	1	Job Reference (optional) # 64059

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LOAD CASE(S)

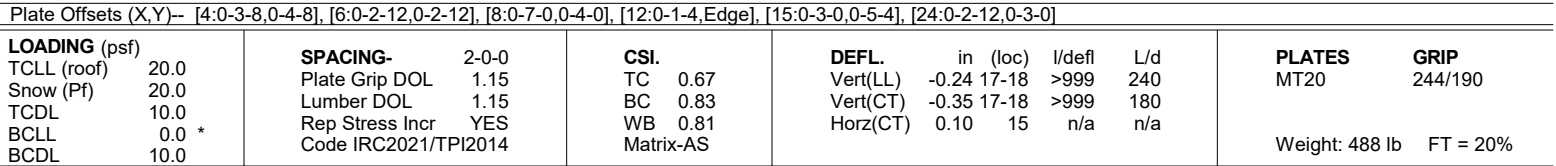
- Concentrated Loads (lb)
Vert: 21=-150 42=-150
- 144) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60(F=-20), 5-7=-101(F=-20), 7-9=-32(F=-20), 9-11=-101(F=-20), 11-13=-60(F=-20), 26-30=-20(F), 18-20=-20(F)
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



10/14/2025

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Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:41 2025 Page 1
ID:kHdPkcON9g3 0lfrDBlgKRzexCS-INiFXhZQUe0nEPNjw4ihifencd9cKvr9Ephq3EyT91a



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 Horz2=-170(LC 15)
Max Uplift2=-156(LC 14), 15=-102(LC 14), 12=-125(LC 15)
Max Grav2=1470(LC 150), 15=3896(LC 43), 12=478(LC 41)

NOTES- (17-20)

- 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) -0-8-9 to 4-1-1, Interior(1) 4-1-1 to 16-8-6, Exterior(2R) 16-8-6 to 26-3-0, Interior(1) 26-3-0 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; and 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) 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

~~Waterproofing, flashing and any other details shall be designed 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.~~

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

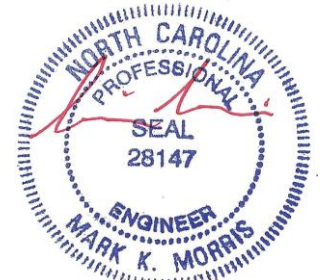
Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:42 2025 Page 2
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NOTES- (17-20)

- 9) 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.
- 11) 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 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 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
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
- 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



10/14/2025

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Continued on page 3

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

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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

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



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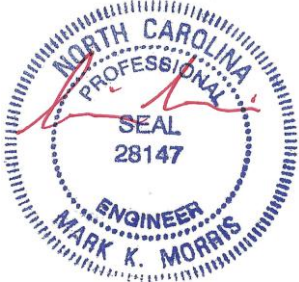
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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	R02A	Piggyback Base	5	1	
					Job Reference (optional) # 64059

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:42 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
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
- 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
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
- 120) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-29=-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
- 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)
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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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA
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 14:44:42 2025 Page 5
ID:kHdPkC0N9g3_0lfrDBlgKRzcxCS-mZGdl1a2Fx8esZyvUnDwFsAyL0vr3M5JSTQNchyT91Z

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 (lb)
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)
- 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)
- Concentrated Loads (lb)
Vert: 20=-150 47=-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: 1-29=-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



10/14/2025

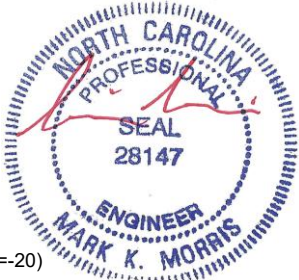
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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	R02A	Piggyback Base	5	1	
Job Reference (optional)					# 64059

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:42 2025 Page 6
ID:kHdPkcON9g3_0lfrDBlgKRzexCS-mZGdl1a2F8esZyvUnDwFsAyL0Vr3M5JSTQNchyT91Z

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), 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
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)



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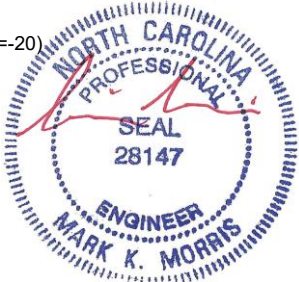
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer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

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA
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 14:44:42 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), 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
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
- 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
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
- 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
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
- 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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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
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 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), 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), 17-19=-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), 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), 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), 17-19=-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
- 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
- 176) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 Vert: 1-29=-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
- 177) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 Vert: 1-29=-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)



10/14/2025

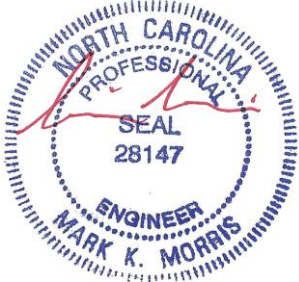
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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA NC 28147
25-8534-R01	R02A	Piggyback Base	5	1	Job Reference (optional) # 64059

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), 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), 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
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
- 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), 17-19=-20(F), 24-34=-20(F)
Concentrated Loads (lb)
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 vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D’Onofrio Drive, Madison, WI 53719.

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

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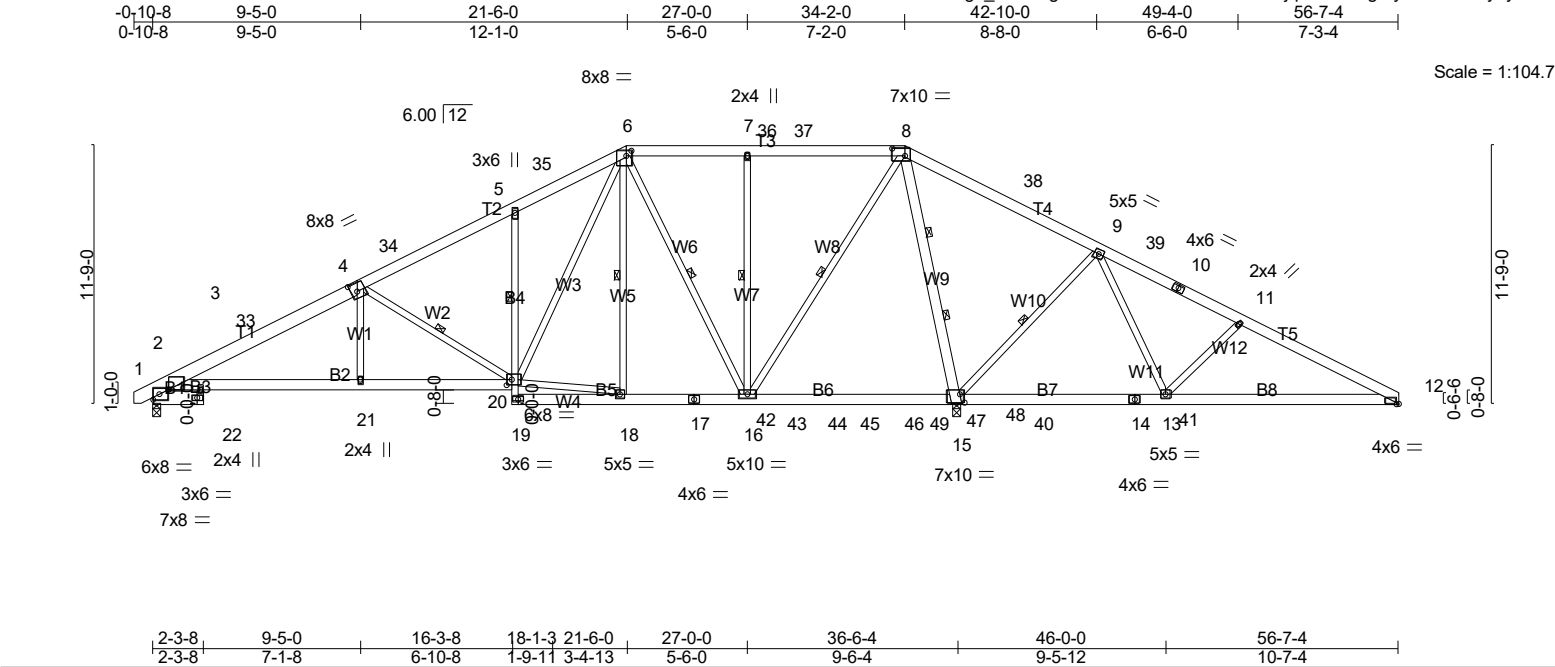


Plate Offsets (X,Y)--		[3:0-0-4,0-0-0], [4:0-3-8,0-4-8], [6:0-2-12,0-2-12], [8:0-7-0,0-4-0], [12:0-1-4,Edge], [15:0-2-8,0-4-8], [20:0-2-12,0-3-0]
LOADING (psf)		
TCLL (roof)	20.0	
Snow (Pf)	20.0	
TCDL	10.0	
BCLL	0.0 *	
BCDL	10.0	
SPACING-		
Plate Grip DOL	2-0-0	
Lumber DOL	1.15	
Rep Stress Incr	YES	
Code IRC2021/TPI2014		
CSI.		
TC	0.67	
BC	0.66	
WB	0.81	
Matrix-AS		
DEFL.		
Vert(LL)	-0.12	15-16 >999 240
Vert(CT)	-0.25	15-16 >999 180
Horz(CT)	0.10	15 n/a n/a
PLATES		
MT20		
GRIP		
244/190		
Weight: 474 lb		FT = 20%

LUMBER-		
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	
WEBS	2x4 SP No.3 *Except*	
	W9: 2x6 SP No.2	
BRACING-		
TOP CHORD	Structural wood sheathing directly applied.	
BOT CHORD	Rigid ceiling directly applied. Except:	
	1 Row at midpt	5-20
WEBS	1 Row at midpt	6-16, 7-16, 8-16, 9-15, 6-18, 4-20
	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 Horz2=-170(LC 15)
Max Uplift2=-165(LC 14), 15=-185(LC 14), 12=-122(LC 15)
Max Grav2=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
BOT CHORD 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
WEBS 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

- NOTES-** (17-20)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=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 56-7-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: 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 or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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 fit between the bottom chord and any other members, with BCDL = 10.0psf.

9) Refer to drawings for proper truss connections 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.



10/14/2025

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

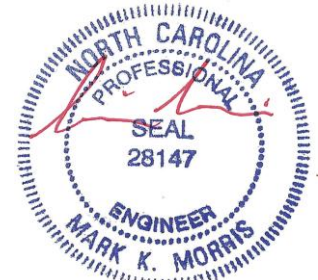
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NOTES- (17-20)

- 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.
- 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 RESTRAINING/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
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: 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: 1-25=-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
- 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

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Continued on page 3

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA NC 28147
25-8534-R01	R02B	Piggyback Base	1	1	Job Reference (optional) # 64059

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ID:kHdPkC0N9g3_0lfrDBlgKRzexCS-Pt_9G8jaQdflPtDBJRkkOg0LsdDto54DLK01_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

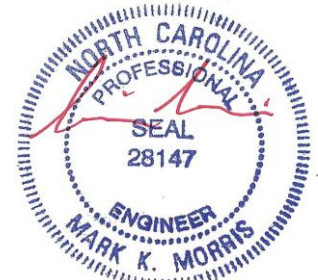
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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA
25-8534-R01	R02B	Piggyback Base	1	1	
					Job Reference (optional) # 64059

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 4
ID:kHdPkcoN9g3_0lfrDBlgKRzexCS-Pt_9G8jaQdxiPTdBJRkkOg0LsdDto54DLK01_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
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
- 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
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



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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA NC 28147
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 5
ID:kHdPkC0N9g3_0lfrDBlgKRzexCS-Pt_9G8jaQdflPtDBJRkkOg0LsdDto54DLK01_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



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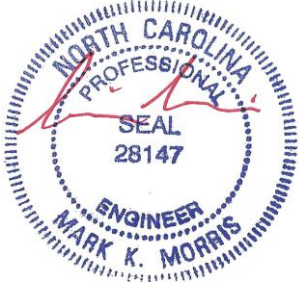
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer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

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA NC 28147
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 6
ID:kHdPkC0N9g3_0lfrDBlgKRzcxCS-Pt_9G8jaQdxfIPTDBJRkkOg0LsdDto54DLK01_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
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
- 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
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
- 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



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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA
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 7
ID:kHdPkcoN9g3_0lfrDBlgKRzexCS-Pt_9G8jaQdxfIPTDBJRkkOg0LsdDto54DLK01_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), 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), 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), 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), 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
 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)
 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
- 169) 7th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-25=-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)



10/14/2025

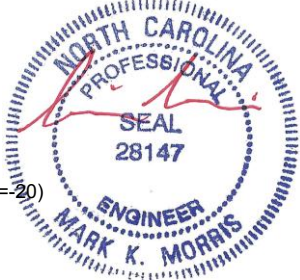
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer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

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA NC 28147
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 8
ID:kHdPkcoN9g3_0lfrDBlgKRzexCS-Pt_9G8jaQdxfIPTdBJRkkOg0LsdDto54DLK01_yT91N

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), 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), 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
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
- 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), 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), 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
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
- 180) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-25=-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)
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), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)
Concentrated Loads (lb)
Vert: 16=-150 43=-150
- 183) 7th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15



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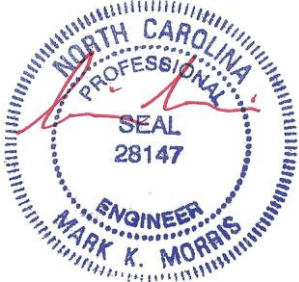
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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA
25-8534-R01	R02B	Piggyback Base	1	1	
					Job Reference (optional) # 64059

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LOAD CASE(S)

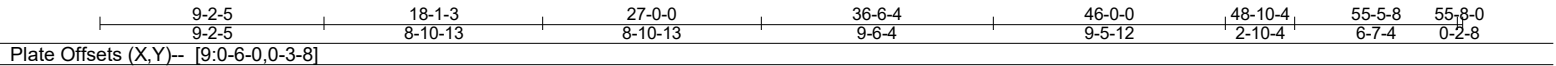
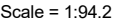
- Uniform Loads (plf)
 Vert: 1-25=-32(F=-20), 25-31=-12, 6-31=-32(F=-20), 6-8=-101(F=-20), 8-12=-32(F=-20), 27-49=-20(F), 19-49=-20(F), 20-30=-20(F)
- Concentrated Loads (lb)
 Vert: 16=-150 43=-150
- 184) 8th Unbal.1st User Defined Moving Load + Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, 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), 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), 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)
- 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

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Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:44:58 2025 Page 1
ID:kHdPkCOn9g3 0lfrDBlgKRzexCS-leEg5Vm4Us9Mn1B Q8WguEriiT?QpYZf8ylEAlYt91J



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

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 43)

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

WEBS
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)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDFL=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 51-8-14, 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
- 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=1.0; 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) 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.
- 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, 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 (it=lb)

Warning 1-19-103 **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.



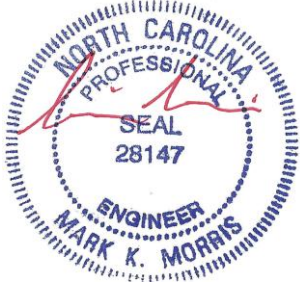
10/14/2025

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
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:kHdPkC0N9g3_0lfrDBlgKRzexCS-leEg5Vm4Us9Mn1B_Q8WguEriiT?QpYZf8ylEAlYt91J

- 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 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 RESTRAINING/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.

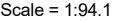
LOAD CASE(S) Standard



10/14/2025

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Run: 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
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[illegible]

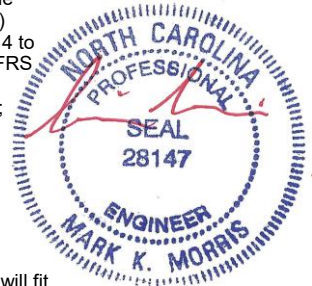
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

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; TCDF=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 51-8-14, 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
- 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) 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.
- 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, 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 (it=lb)

Warning: This 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.



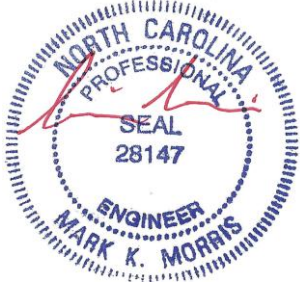
10/14/2025

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	R03A	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 14:45:03 2025 Page 2
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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.
 - 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 RESTRAINING/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



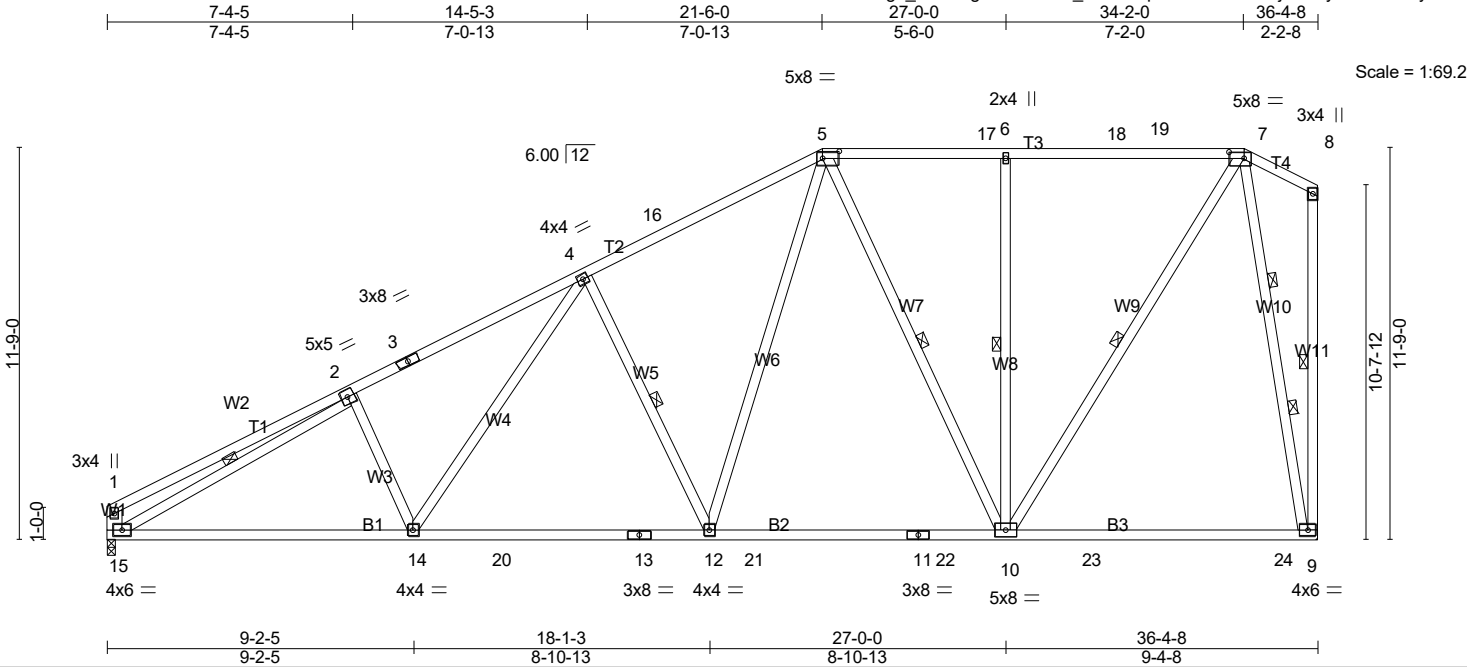
10/14/2025

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

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA
25-8534-R01	R04	PIGGYBACK BASE	5	1	

Job Reference (optional) # 64059

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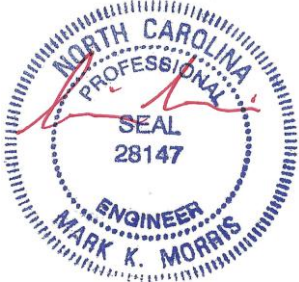


Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	R04	PIGGYBACK BASE	5	1	Job Reference (optional) # 64059

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:05 2025 Page 2
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- 10) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 12) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 13) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS 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.

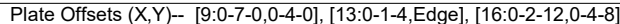
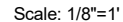
LOAD CASE(S) Standard



10/14/2025

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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
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LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W8: 2x6 SP No.2
SLIDER Left 2x4 SP No.3 1-11-0

REACTIONS. (lb/size) 2=1301/0-3-8 (min. 0-1-12), 16=2858/0-3-8 (min. 0-1-10), 13=422/Mechanical Max Horz 2=-170(LC 15)
Max Uplift 2=-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

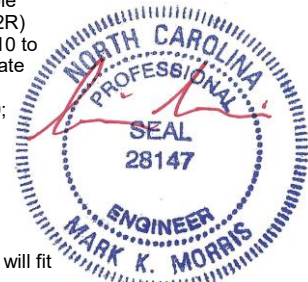
BOT CHORD 2-21=-339/2045, 21-35=-196/1674, 20-35=-196/1674, 19-20=-196/1674, 19-36=-75/1034,
36-37=-75/1034, 18-37=-75/1034, 17-18=-75/1034, 17-38=-478/238, 38-39=-478/238,
16-39=-478/238, 16-40=-372/107, 40-41=-372/107, 15-41=-372/107, 14-15=-372/107,
13-14=-93/527

WEBS 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)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDFL=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) TLL: 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) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity.

Warning on surface 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.



10/14/2025

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	R05	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 14:45:09 2025 Page 2
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- NOTES-** (13-16)
- 11) Provide mechanical 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



10/14/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	R05A	PIGGYBACK BASE	1	1	

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:12 2025 Page 1
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Scale: 1/8"=1'

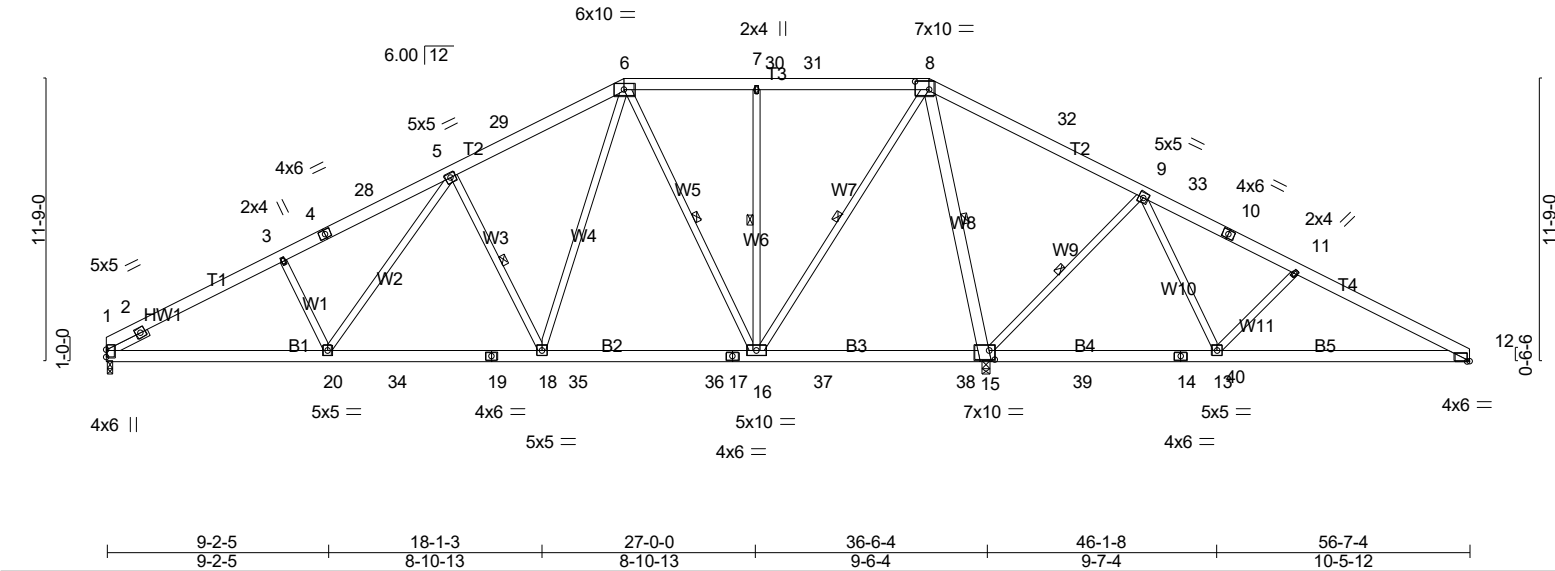


Plate Offsets (X,Y)-- [8:0-7-0,0-4-0], [12:0-1-4,Edge], [15:0-2-12,0-4-8]									
LOADING (psf)		SPACING		CSI		DEFL.		PLATES	
TCLL (roof)	20.0		2-0-0	TC	0.65	in (loc)	l/defl	MT20	GRIP
Snow (Pf)	20.0	Plate Grip DOL	1.15	BC	0.61	Vert(LL)	-0.18 18-20		244/190
TCDL	10.0	Lumber DOL	1.15	WB	0.94	Vert(CT)	-0.28 18-20		
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-AS		Horz(CT)	0.04 15		
BCDL	10.0	Code IRC2021/TPI2014							
								Weight: 439 lb FT = 20%	

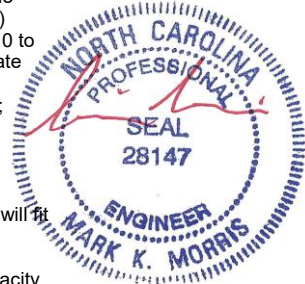
LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt 5-18, 6-16, 7-16, 8-16, 8-15, 9-15
	W8: 2x6 SP No.2		
SLIDER	Left 2x4 SP No.3 1-11-0		

REACTIONS. (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,
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
BOT CHORD 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
WEBS 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)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=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
 - TCCL: 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.
 - 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 fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=176.

W16x194 - 12x113 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.



10/14/2025

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
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.
 - 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 RESTRAINING/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

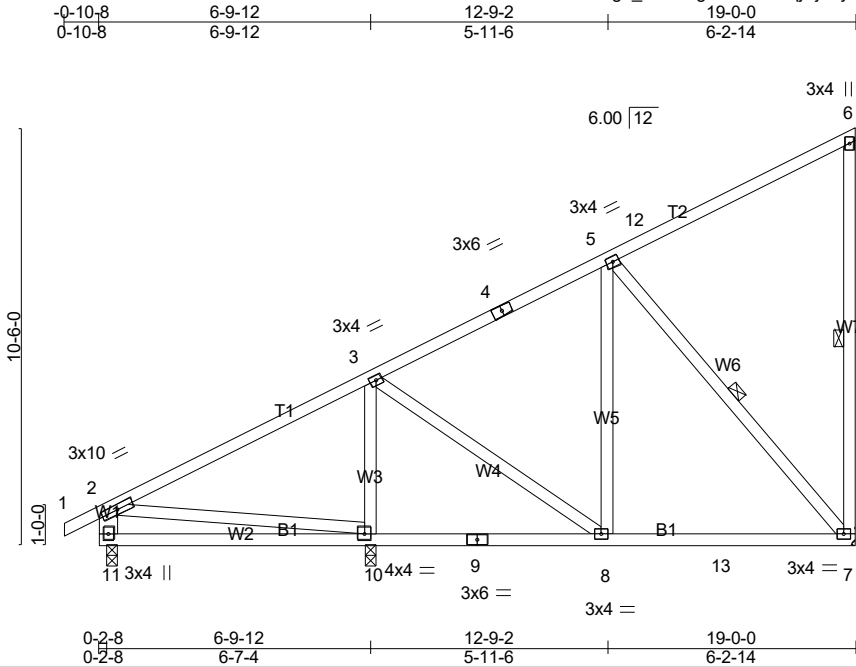


10/14/2025

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

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA NC 28147
25-8534-R01	R06	Monopitch	3	1	Job Reference (optional) # 64059

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Scale = 1:57.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.38	Vert(LL) -0.06 7-8 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Vert(CT) -0.11 7-8 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) -0.01 7 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 126 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x6 SP No.2

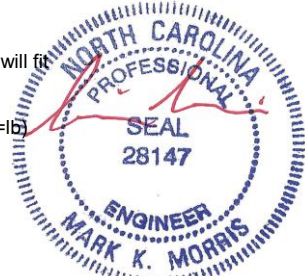
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-11 oc bracing.
WEBS 1 Row at midpt 6-7, 5-7

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 Horz 11=327(LC 14)
Max Uplift 7=-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.
TOP CHORD 3-4=-404/0, 4-5=-277/0, 2-11=-303/63
BOT CHORD 10-11=-454/278, 8-13=-122/301, 7-13=-122/301
WEBS 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) TCDL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) 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=10) 7=198.



10/14/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	R06	Monopitch	3	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 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.

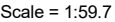
LOAD CASE(S) Standard



10/14/2025

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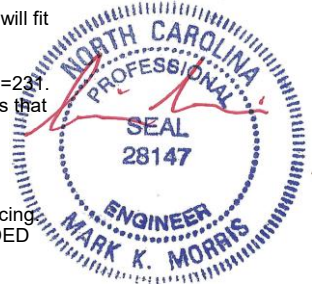
Weight: 110 lb FT = 20%

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

Max Horz 1=348(LC 14)
Max Uplift6=-231(LC 14), 1=-53(LC 14)
Max Grav6=938(LC 20), 1=811(LC 20)

TOP CHORD 1-2=-1267/70, 2-3=-1015/14, 3-4=-882/40, 5-6=-261/111
BOT CHORD 1-8=-337/1062, 7-8=-186/596, 7-10=-186/596, 6-10=-186/596
WEBS 2-8=-360/202, 4-8=-41/641, 4-6=-835/263

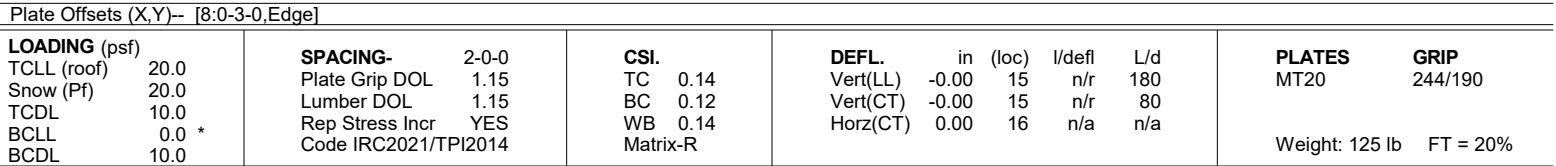
- 2) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; End Jack Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-12 to 4-10-6, Interior(1) 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); 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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 a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.



10/14/2025

LOAD CASE (S): Bracing and 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.

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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.

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

10/14/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	R08	GABLE	1	1	Job Reference (optional) # 64059

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- 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

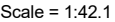
LOAD CASE(S) Standard



10/14/2025

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Weight: 400 lb FT = 20%

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2217/465, 3-4=-4367/1015, 4-5=-3363/849, 5-6=-3362/849, 6-7=-4572/1108,
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,
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

10/14/2025

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

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	R09	Common Girder	1	3	Job Reference (optional) # 64059

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- 12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/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

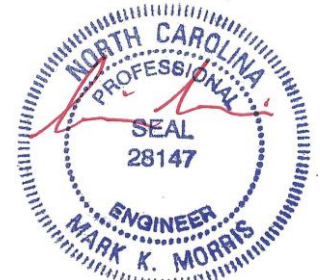
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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)

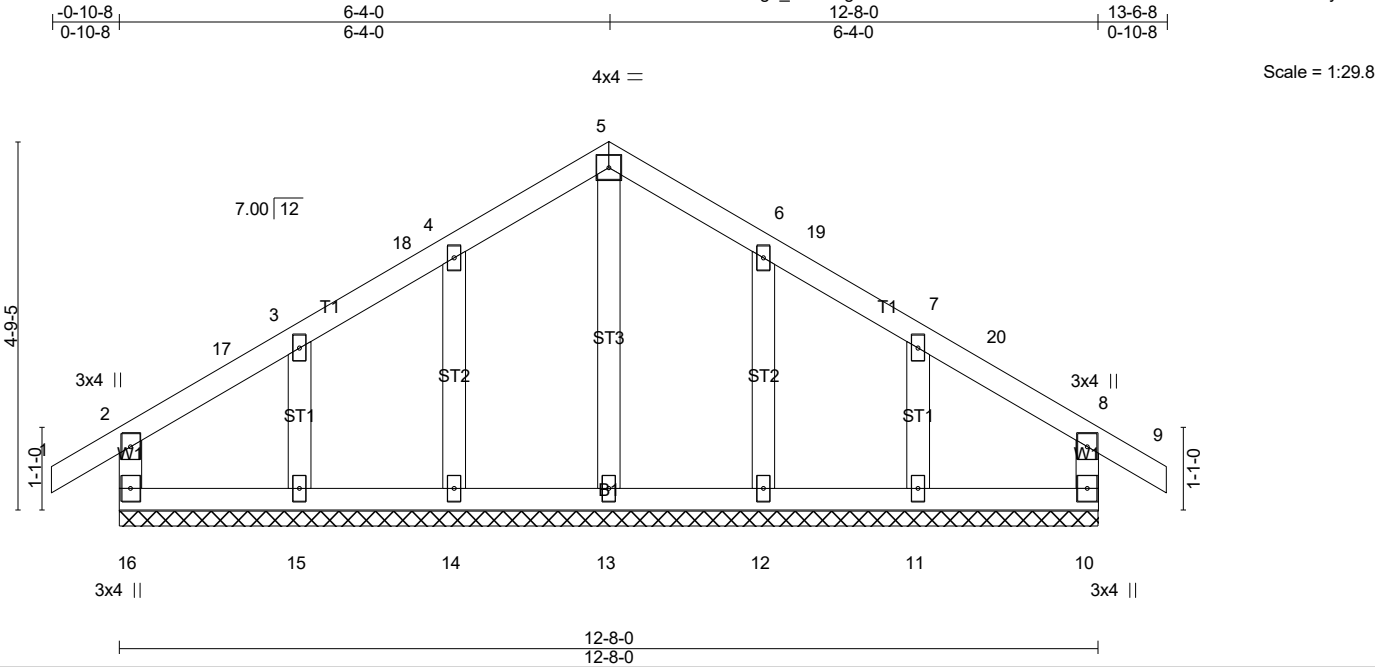


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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	R10	Common Supported Gable	1	1	
					Job Reference (optional) # 64059

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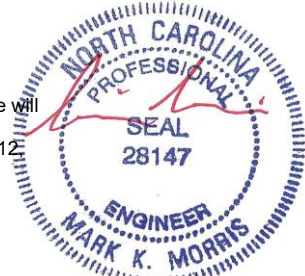
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.12	in (loc) l/def L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) -0.00 9 n/r 180		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Vert(CT) -0.00 9 n/r 80		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 10 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 67 lb	FT = 20%

LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. 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 12-8-0.
(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.

- NOTES-** (14-17)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=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
 - 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.
 - TCCL: 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 or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.



10/14/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	R10	Common Supported Gable	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 14:45:25 2025 Page 2
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- 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

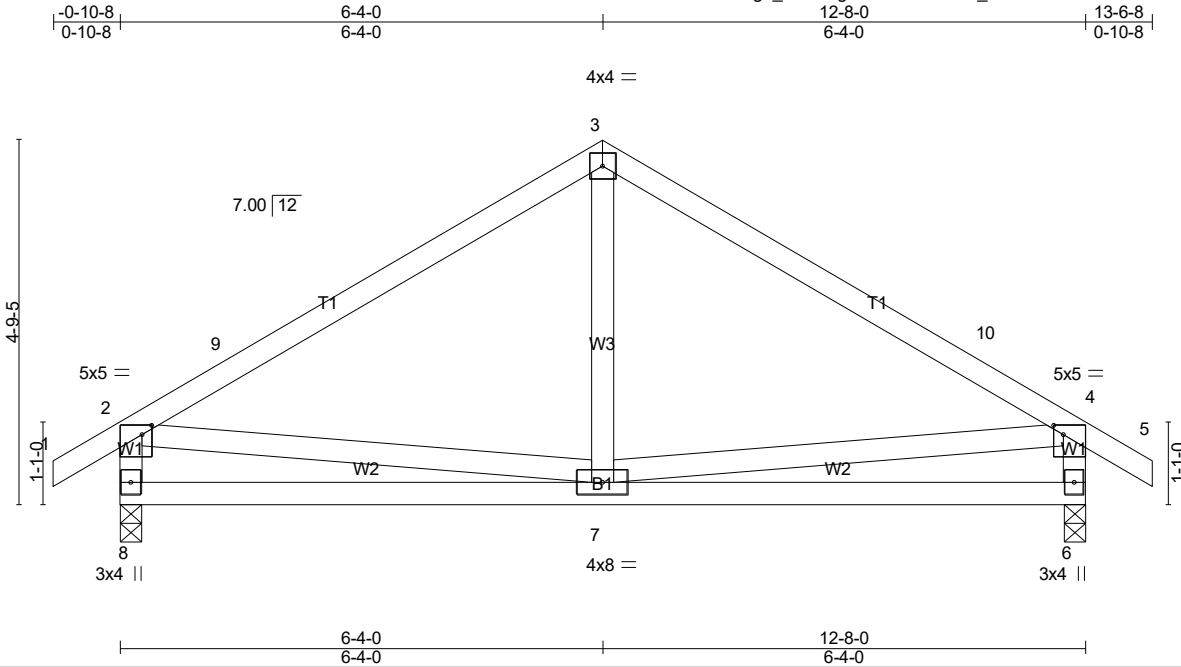


10/14/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	R11	Common	2	1	

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Scale = 1:30.2

Plate Offsets (X,Y)--		[2:0-1-8,0-1-8], [4:0-1-8,0-1-8]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	20.0	Plate Grip DOL	1.15
Snow (Pf)	20.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0 *	Code IRC2021/TPI2014	
BCDL	10.0		
		CSI.	
		TC	0.70
		BC	0.34
		WB	0.11
		Matrix-SH	
		DEFL.	
		Vert(LL)	-0.03 in (loc) 7-8 >999 L/d 240
		Vert(CT)	-0.06 in (loc) 7-8 >999 L/d 180
		Horz(CT)	0.00 in (loc) 6 n/a n/a
		PLATES	MT20
		GRIP	244/190
		Weight:	70 lb
		FT =	20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

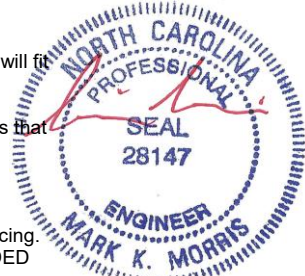
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (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 Uplift 8=-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
WEBS 2-7=-47/272, 4-7=-51/272

- NOTES-** (9-12)
- 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; 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
 - 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 or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/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.

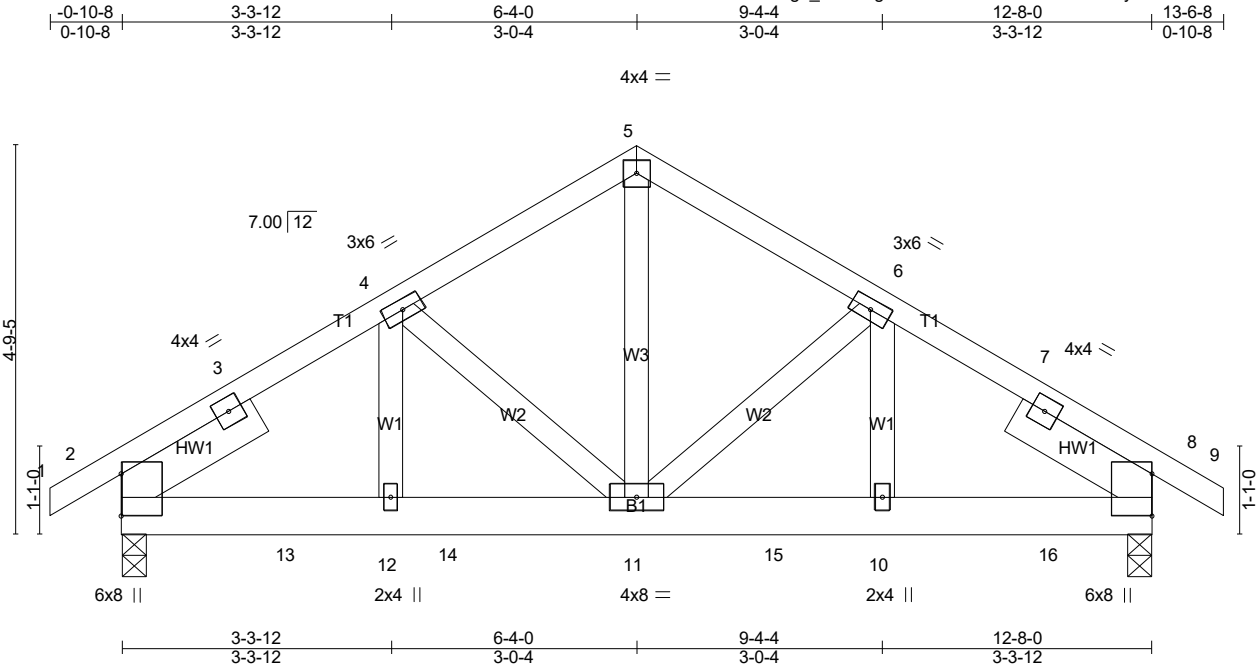


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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA, NC 27048
25-8534-R01	R12	Common Girder	1	2	

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LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.65	Vert(LL) -0.03 10-11 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.38	Vert(CT) -0.05 10-11 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.01 8 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014				

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

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 Uplift 2=-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.
TOP CHORD 2-3=-2694/463, 3-4=-2652/486, 4-5=-2186/415, 5-6=-2184/415, 6-7=-3110/472, 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
WEBS 5-11=-340/1837, 6-11=-886/130, 6-10=-95/1080, 4-11=-374/146, 4-12=-109/494

- NOTES-** (12-15)
- 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.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=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
 - 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 or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=389, 8=376.
 - 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.



10/14/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	R12	Common Girder	1	2	Job Reference (optional) # 64059

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- 12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-5=-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)



10/14/2025

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

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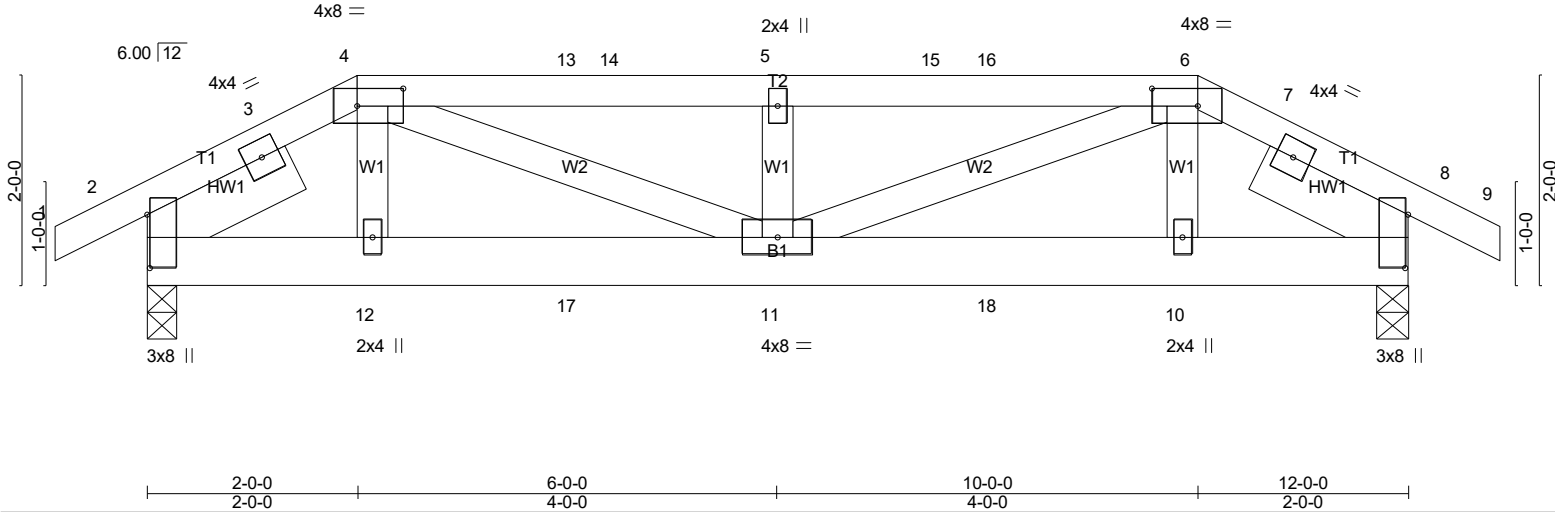
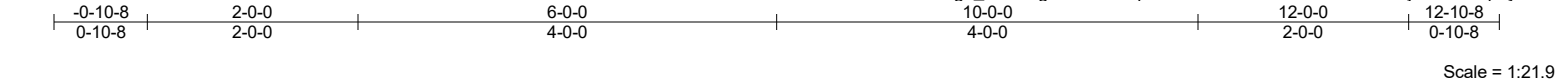


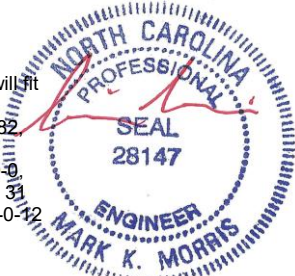
Plate Offsets (X,Y)-- [2:0-6-1,0-0-5], [4:0-5-4,0-2-0], [6:0-5-4,0-2-0], [8:0-6-1,0-0-5]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	2-0-0		TC	0.40	in (loc)	l/defl	L/d	GRIP
Snow (Pf)	20.0	Plate Grip DOL	1.15	BC	0.22	Vert(LL)	-0.04 11	>999 240	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	WB	0.27	Vert(CT)	-0.06 11	>999 180	
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-SH		Horz(CT)	0.01 8	n/a n/a	
BCDL	10.0	Code IRC2021/TPI2014							Weight: 74 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-9-9 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
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 Uplift 2=-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
WEBS 4-11=-183/646, 5-11=-461/113, 6-11=-184/646

- NOTES-** (12-15)
- 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; 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
 - 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 or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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 fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=182, 8=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 2-0-0, 27 lb down and 30 lb up at 4-0-12, 27 lb down and 30 lb up at 6-0-12, and 27 lb down and 30 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 4-0-12, 7 lb down and 21 lb up at 6-0-12, and 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 connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



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

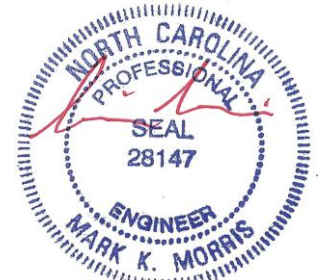
Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	R13	Hip Girder	1	1	Job Reference (optional) # 64059

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 RESTRAINING/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)



10/14/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
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 14:45:33 2025 Page 1
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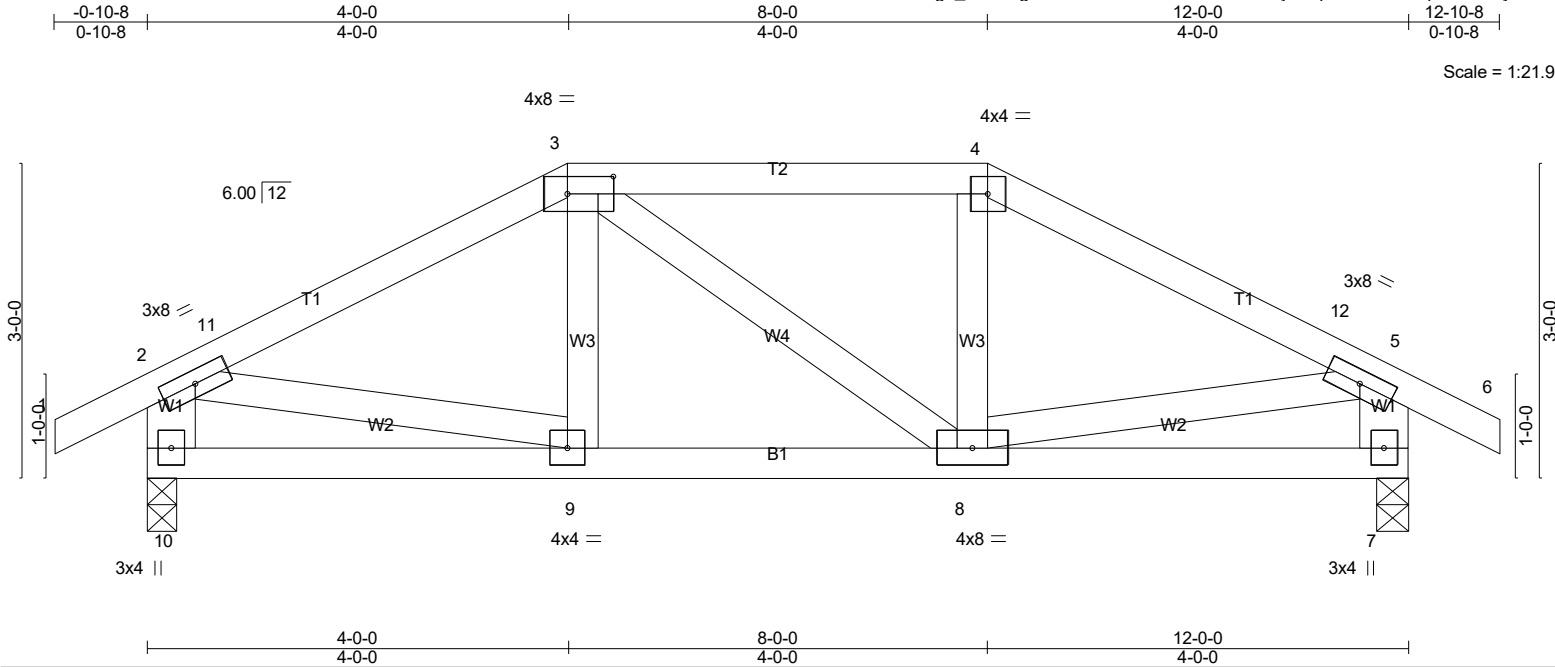


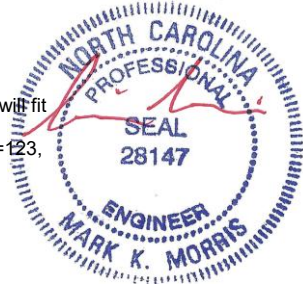
Plate Offsets (X,Y)-- [3:0-5-4,0-2-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	2-0-0	Plate Grip DOL	1.15	TC	0.38	in (loc)	l/defl	L/d
Snow (Pf)	20.0		Lumber DOL	1.15	BC	0.17	Vert(LL)	-0.01	8-9 >999 240
TCDL	10.0		Rep Stress Incr	YES	WB	0.19	Vert(CT)	-0.02	8-9 >999 180
BCLL	0.0 *		Code IRC2021/TPI2014		Matrix-SH		Horz(CT)	0.00	7 n/a n/a
BCDL	10.0								
								Weight: 67 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except*		
	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) 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 Uplift 10=-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-** (10-13)
- 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 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
 - 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 or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 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 fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=-123, 7=123.



10/14/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
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?whF5ZxvXi96MqKwo_PJE1dzQZ08QgyT90l

- 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.

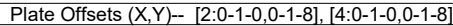
LOAD CASE(S) Standard



10/14/2025

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LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x6 SP No.2

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

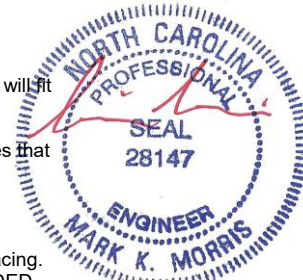
REACTIONS. (lb/size) 8=528/0-3-8 (min. 0-1-8), 6=528/0-3-8 (min. 0-1-8)
 Max Horz 8=-63(LC 12)
 Max Uplift 8=-85(LC 11), 6=-85(LC 10)
 Max Grav 8=612(LC 21), 6=612(LC 22)

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
WEBS 2-7=-48/283, 4-7=-51/283

NOTES- (9-12)

- 3) 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; Pf=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) 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

CONSIDERATIONS: 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.



10/14/2025

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

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LOAD CASE(S) Standard



10/14/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	VT01	Valley	1	1	

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
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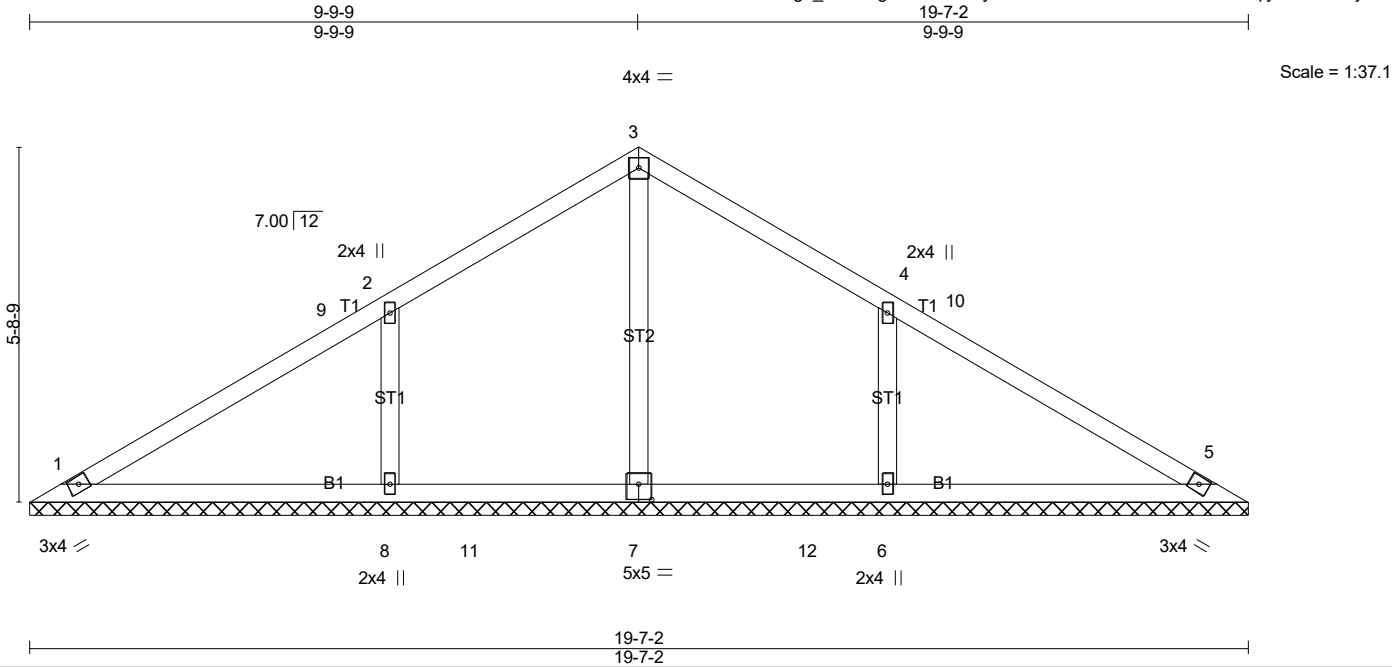


Plate Offsets (X,Y)-- [7:0-2-8,0-3-0]							
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL (roof)	20.0	2-0-0		TC	0.40	in (loc)	l/defl
Snow (Pf)	20.0	Plate Grip DOL	1.15	BC	0.36	n/a	L/d
TCDL	10.0	Lumber DOL	1.15	WB	0.11	n/a	999
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-SH		n/a	999
BCDL	10.0	Code IRC2021/TPI2014				0.00	5
						Weight: 77 lb	
						FT = 20%	

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

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

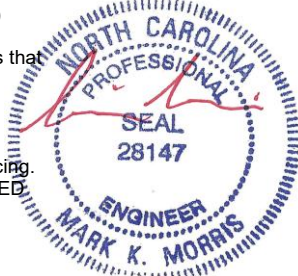
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

- NOTES-** (9-12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=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
 - TCCL: 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.
 - Gable requires continuous bottom chord bearing.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=153, 6=153.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



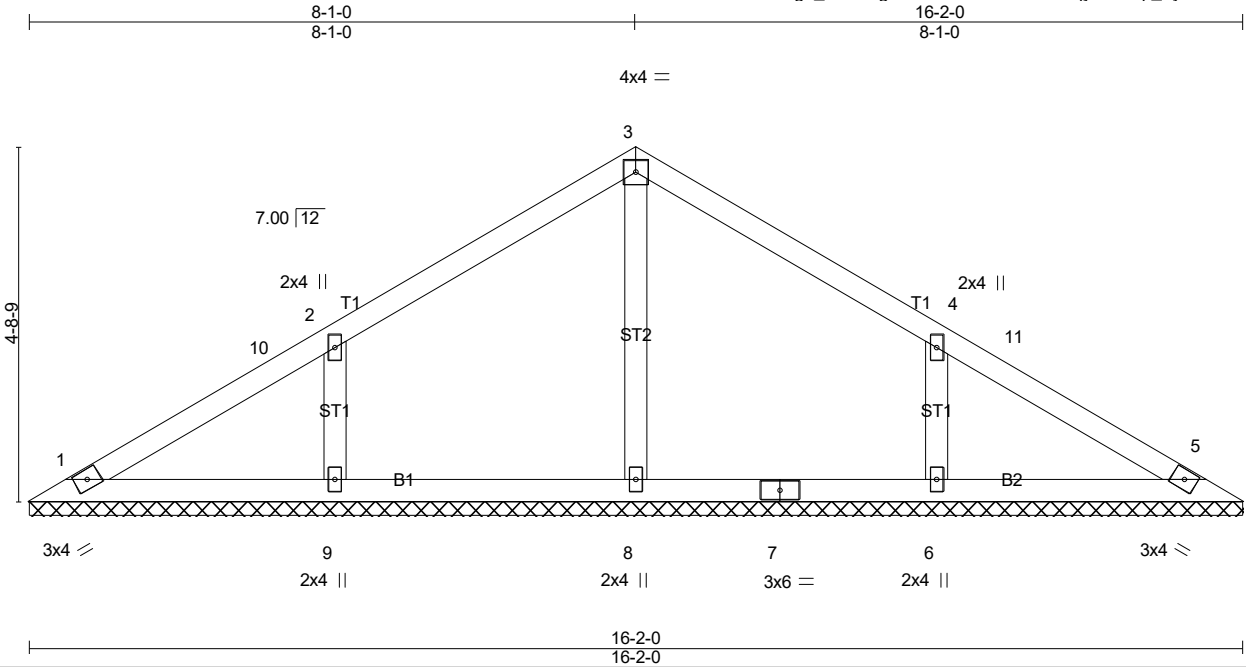
10/14/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	VT02	Valley	1	1	

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
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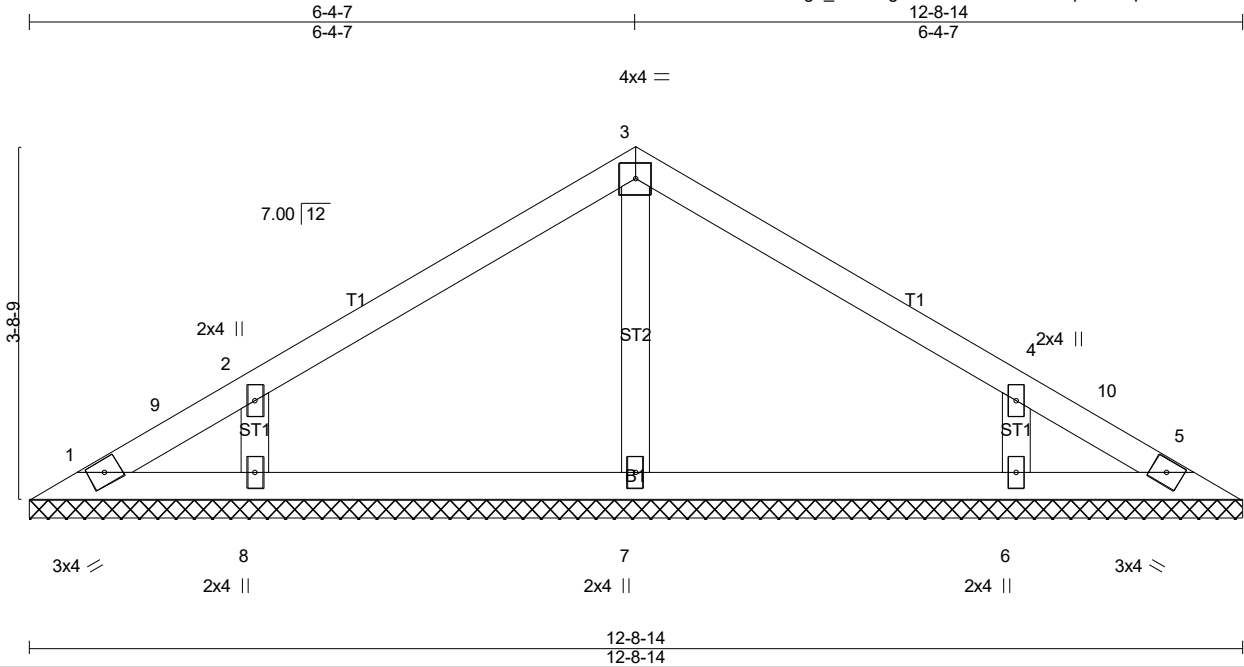
Job Reference (optional) # 64059



Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	VT03	GABLE	1	1	

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:39 2025 Page 1
ID:kHdPkcON9g3_0lfrDBlgKRzexCS-bXCAiXGoqSJYCKptkFIH3u1o8?5tvJhiZrkv6tyT90g

Job Reference (optional) # 64059



LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.28	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 46 lb	FT = 20%

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

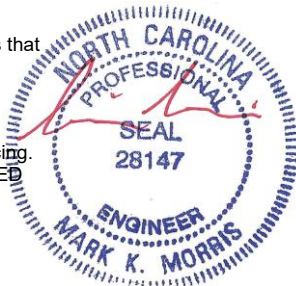
BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-8-14.
(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-** (9-12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=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
 - TCCL: 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=104, 6=104.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/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

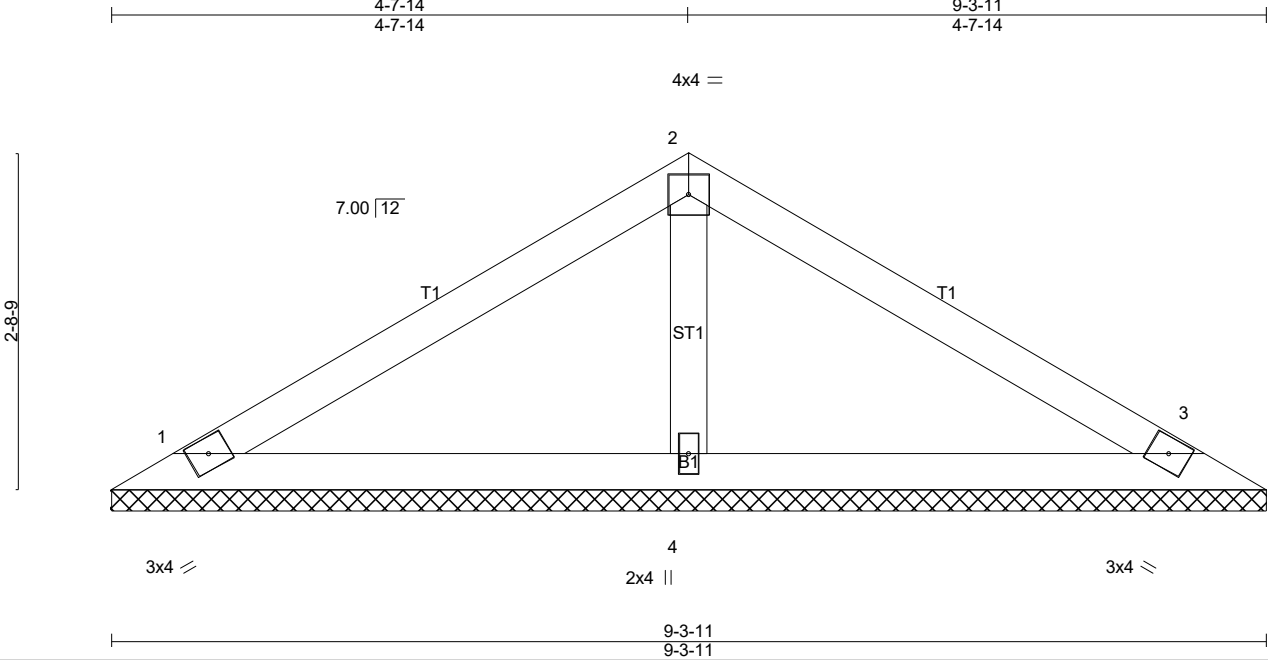
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer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

Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA
25-8534-R01	VT04	Valley	1	1	

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:40 2025 Page 1
ID:kHdPkON9g3_0lfrDBlgKRzexCS-3jmYwsHQbmRPPuO3tzGWb5ayAPPQeniroVTSeKyT90f

Job Reference (optional) # 64059

Scale = 1:18.6



LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.32	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Lumber DOL 1.15	BC 0.38	Vert(LL) n/a - n/a 999		
TCDL 10.0	Rep Stress Incr YES	WB 0.05	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Code IRC2021/TPI2014	Matrix-SH	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0				Weight: 31 lb	FT = 20%

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

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

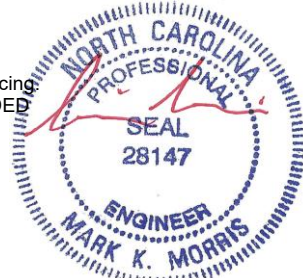
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=152/9-3-11 (min. 0-1-8), 3=152/9-3-11 (min. 0-1-8), 4=353/9-3-11 (min. 0-1-8)
Max Horz 1=-53(LC 12)
Max Uplift 1=-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.

- NOTES-** (9-12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=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
 - TCCL: 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/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	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA NC 28147
25-8534-R01	VT05	Valley	1	1	

Run: 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_0lfrDBlgKRzcxCS-XwKx7CH2M4ZGRdzFRgnl8J7AhpjoNEJ?19D?AmyT90e

Job Reference (optional) # 64059

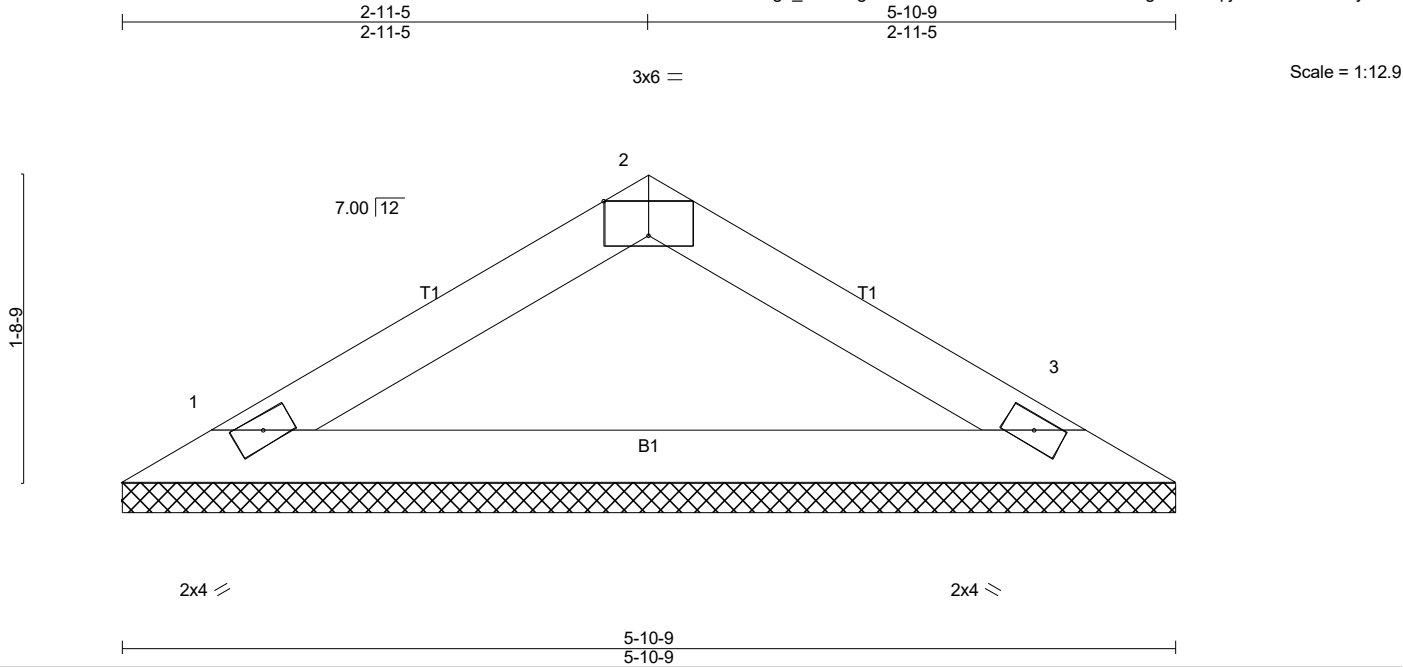


Plate Offsets (X,Y)-- [2:0-3-0,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a - n/a	999	MT20 244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	n/a - n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 3 n/a	n/a	
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P					
BCDL	10.0								
								Weight: 17 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

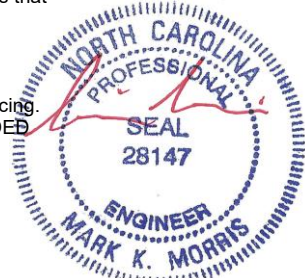
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 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 Uplift 1=-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.

- NOTES-** (9-12)
- 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; 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
 - 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



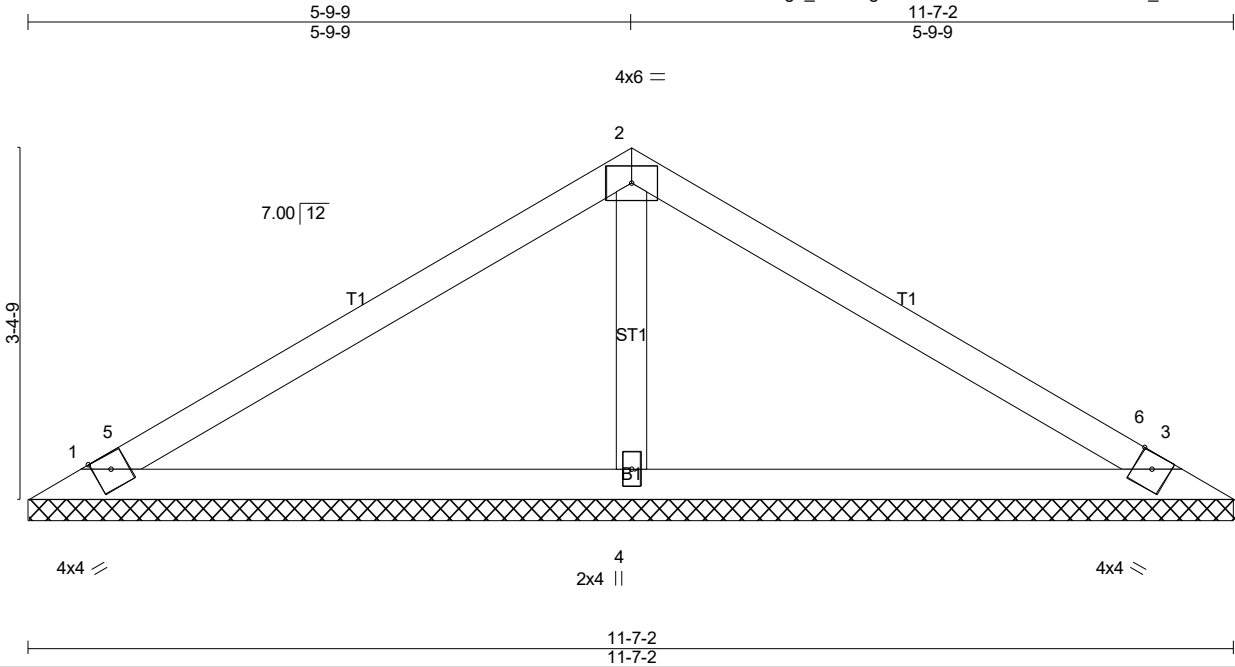
10/14/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	VT06	Valley	1	1	

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:42 2025 Page 1
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Job Reference (optional) # 64059



Scale = 1:22.2

LOADING (psf)	SPACING-	CS.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.56	Vert(LL) n/a	-	n/a	999	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.65	Vert(CT) n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.07	Horz(CT) 0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH						
BCDL 10.0	Code IRC2021/TPI2014						Weight: 40 lb	FT = 20%

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

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

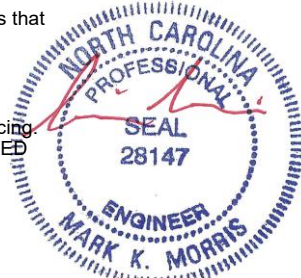
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=195/11-7-2 (min. 0-1-8), 3=195/11-7-2 (min. 0-1-8), 4=452/11-7-2 (min. 0-1-8)
Max Horz 1=-68(LC 10)
Max Uplift 1=-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-** (9-12)
- 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; 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
 - 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/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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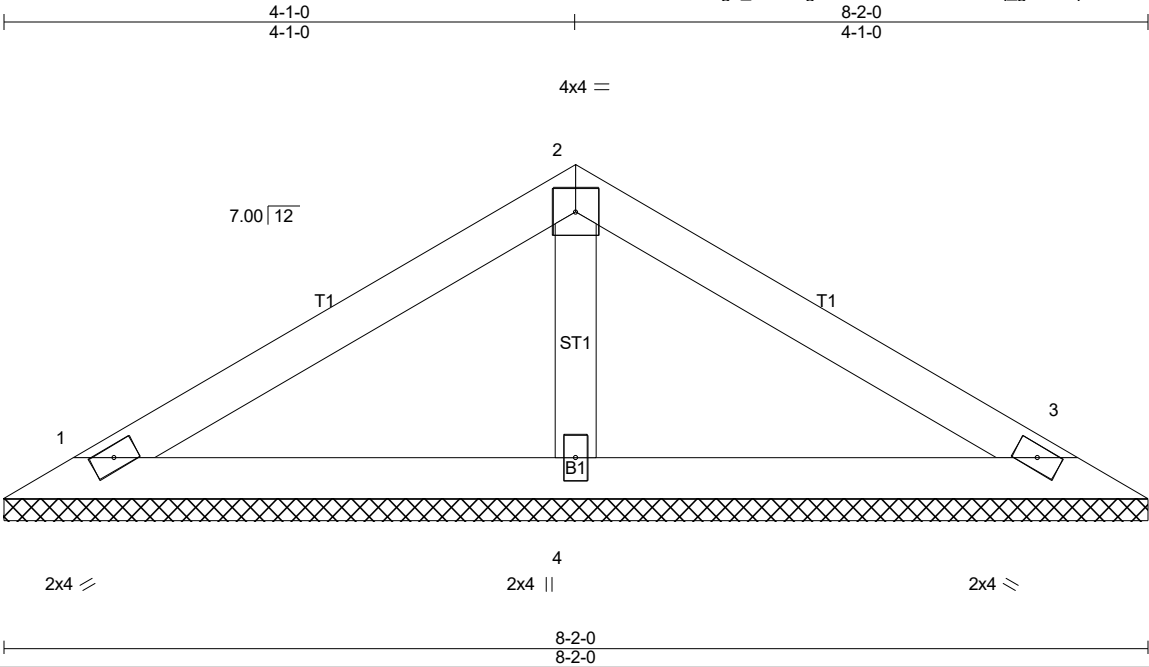
Job	Truss	Truss Type	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARINA
25-8534-R01	VT07	Valley	1	1	

Job Reference (optional)

64059

Run: 8.830 s Sep 3 2025 Print: 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Oct 15 14:45:43 2025 Page 1

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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a			
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P									
BCDL	10.0												

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

Structural wood sheathing directly applied or 6-0-0 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=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.

- 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; TCCL=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) TCCL: 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.

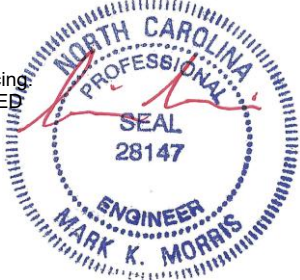
10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

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 RESTRAINING/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	Qty	Ply	LOT 159 PROVIDENCE CREEK 546 PROVIDENCE CREEK DR FUQUAY-VARIN
25-8534-R01	VT08	Valley	1	1	

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Job Reference (optional) # 64059

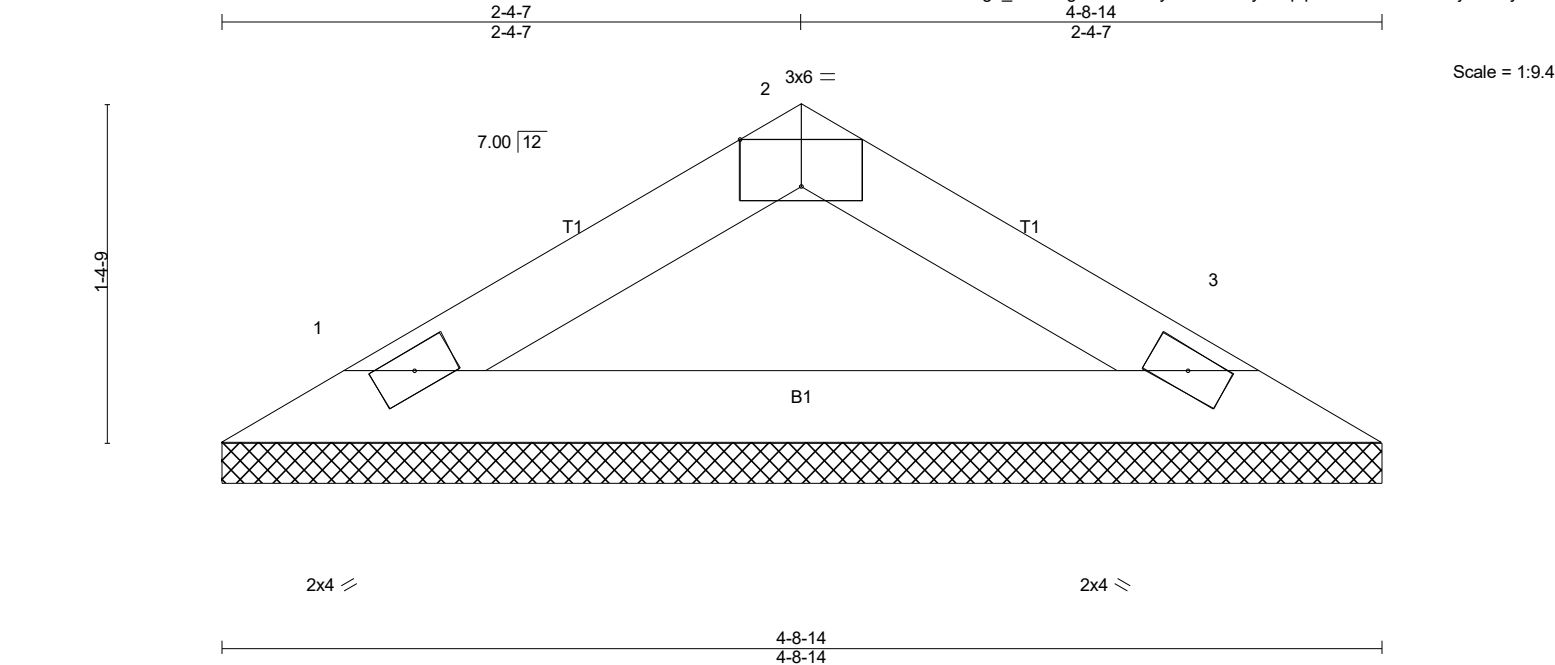


Plate Offsets (X,Y)-- [2:0-3-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	2-0-0		TC	0.08	in (loc)	l/defl	L/d	GRIP
Snow (Pf)	20.0	Plate Grip DOL	1.15	BC	0.28	n/a	-	n/a	244/190
TCDL	10.0	Lumber DOL	1.15	WB	0.00	n/a	-	n/a	
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-P		0.00	3	n/a	
BCDL	10.0	Code IRC2021/TPI2014							
								Weight: 13 lb	FT = 20%

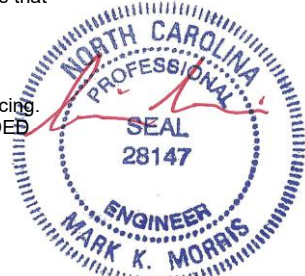
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3		BRACING- TOP CHORD BOT CHORD		Structural wood sheathing directly applied or 4-8-14 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in 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 Uplift 1=-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.

- NOTES-** (9-12)
- 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; 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
 - 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



10/14/2025

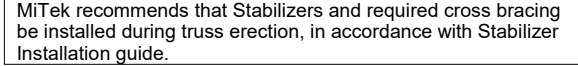
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