

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 #: 58536

JOB: 25-3295-R01

JOB NAME: LOT 153 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.

31 Truss Design(s)

Trusses:

PB01, PB02, R01, R02, R03, R03A, R04, R05, R06, R07, R08, R09, R10, R11, R12, SP01, SP02, SPJ01, SPJ02, SPJ03, VS01, VS02, VS03, VT01, VT02, VT03, VT04, VT05, VT06,



4/16/2025

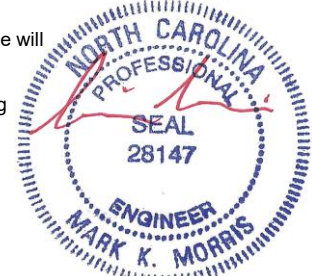
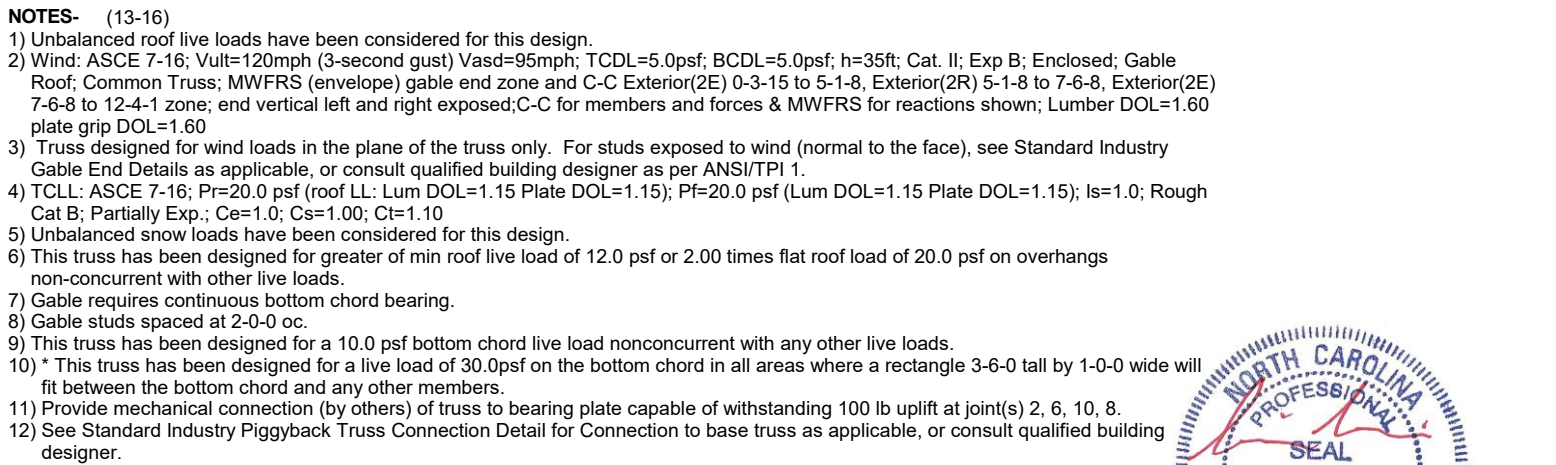
Mark Morris

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

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

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Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:21 2025 Page 1
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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	PB01	GABLE	2	1	Job Reference (optional) # 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:22 2025 Page 2
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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

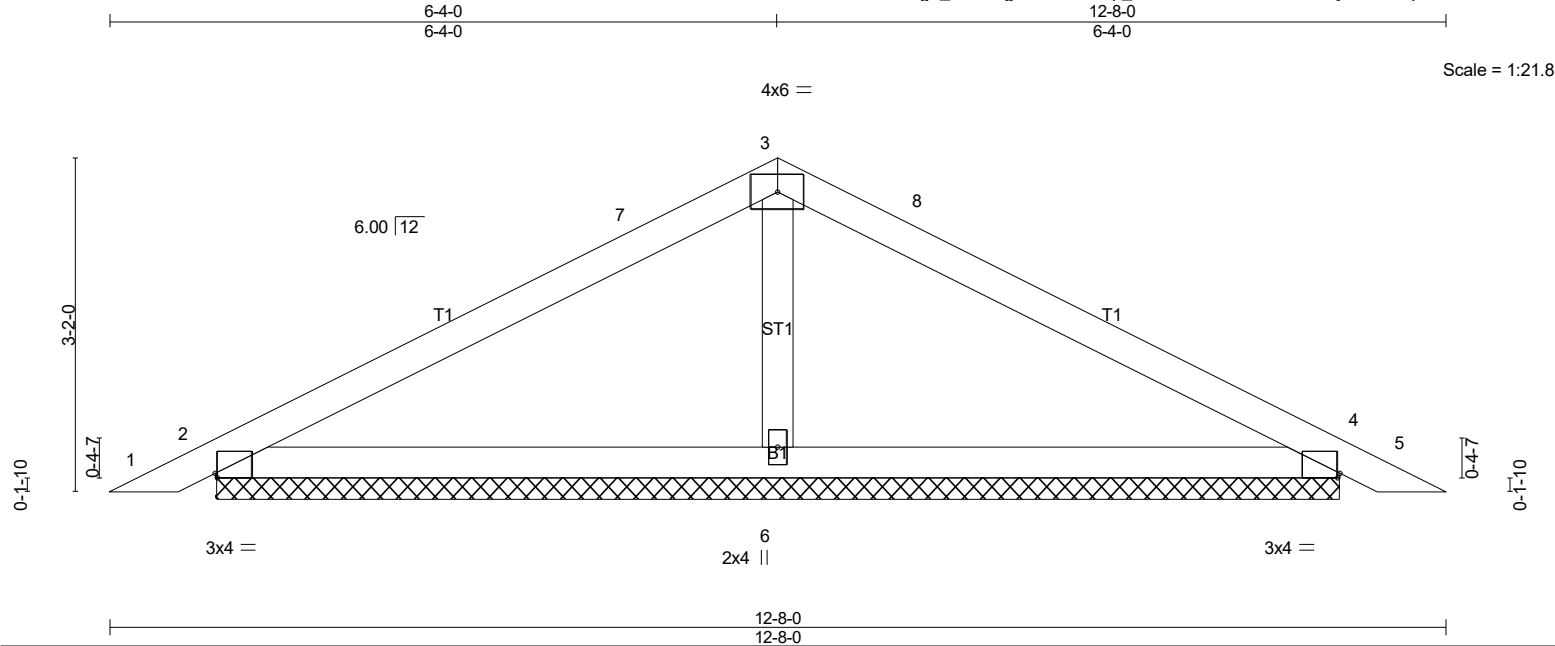


4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	PB02	Piggyback	24	1	
Job Reference (optional)					# 58536

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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	0.01	MT20		244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	0.02				
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00				
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-SH							
BCDL	10.0										
								Weight: 40 lb		FT = 20%	

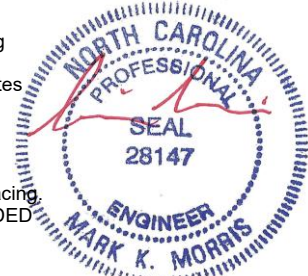
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6'-0-0 oc purlins.
BOT CHORD	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10'-0-0 oc bracing.
OTHERS	2x4 SP No.3		
		MiTek recommends that Stabilizers and required cross bracing be installed during 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 Horz2=-45(LC 15)
Max Uplift2=-51(LC 14), 4=-60(LC 15), 6=-28(LC 14)
Max Grav2=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; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 5-1-8, Exterior(2R) 5-1-8 to 7-6-8, Exterior(2E) 7-6-8 to 12-4-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - 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.

Continued on page 2



4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	PB02	Piggyback	24	1	Job Reference (optional) # 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:22 2025 Page 2
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LOAD CASE(S) Standard



4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R01	Piggyback Base Supported Gable	2	1	
Job Reference (optional)					# 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:24 2025 Page 1
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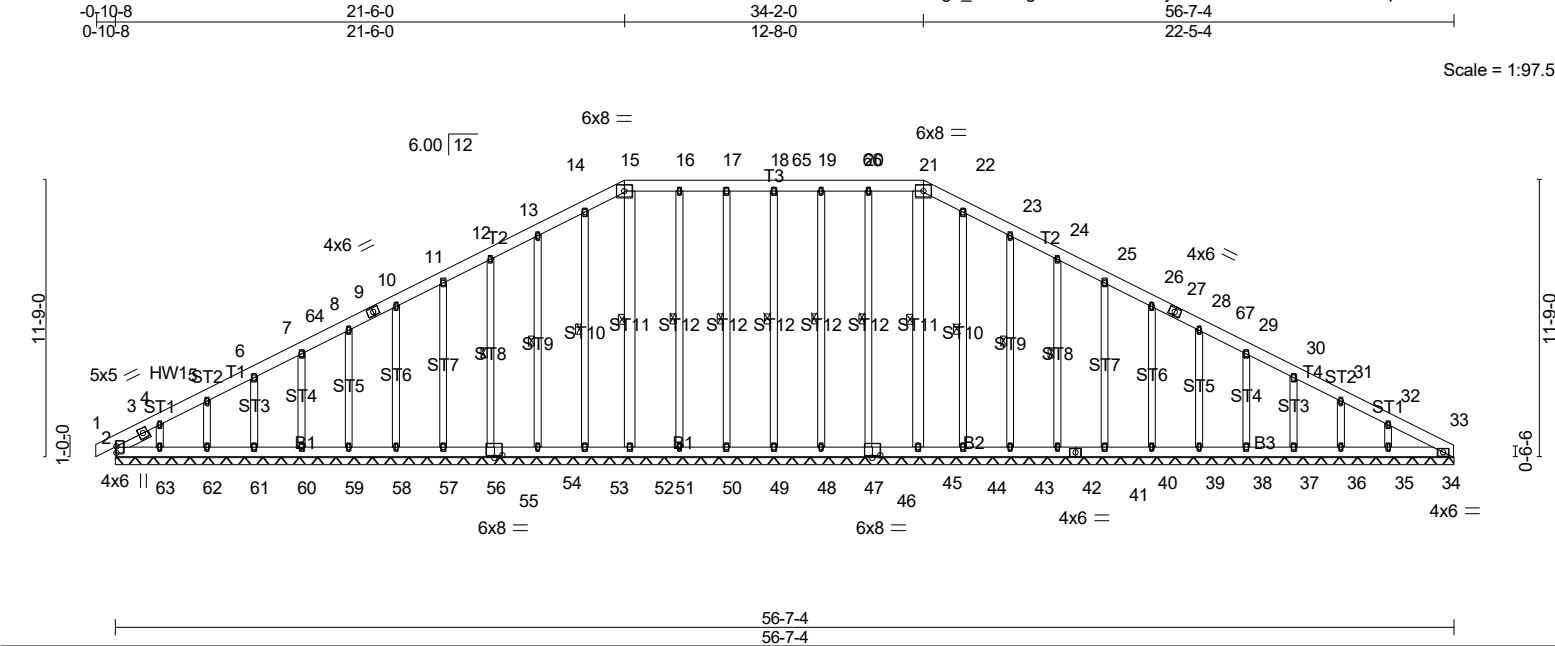


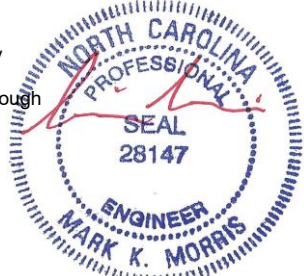
Plate Offsets (X,Y)-- [47:0-4-0,0-1-4], [55:0-4-0,0-1-4]		56-7-4 56-7-4	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL (roof) 20.0	2-0-0	TC 0.05	in (loc) l/defl L/d
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 1 n/r 180
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Vert(CT) -0.00 1 n/r 80
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 33 n/a n/a
BCDL 10.0	Code IRC2021/TPI2014		
		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,
ST11: 2x6 SP No.2	12-56, 19-48, 20-47, 21-45, 22-44, 23-43,
SLIDER Left 2x4 SP No.3 1-6-4	24-42

REACTIONS. All bearings 56-7-4.
(lb) - Max Horz 2=-169(LC 15)
Max Uplift All uplift 100 lb or less at joint(s) 2, 49, 50, 51, 53, 54, 56, 57, 58, 59, 60, 61, 62, 48, 47, 44, 43, 42, 40, 39, 38, 37, 36, 35, 34 except 63=-115(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 2, 60, 61, 62, 63, 37, 36, 35, 34, 33 except 49=291(LC 44), 50=293(LC 44), 51=311(LC 44), 52=282(LC 52), 53=269(LC 47), 54=299(LC 45), 56=285(LC 45), 57=293(LC 45), 58=292(LC 45), 59=291(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=291(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.



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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R01	Piggyback Base Supported Gable	2	1	Job Reference (optional) # 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:24 2025 Page 2
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- NOTES-** (14-17)
- 12) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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.
 - 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.
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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



4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R02	Piggyback Base	10	1	
Job Reference (optional)					# 58536

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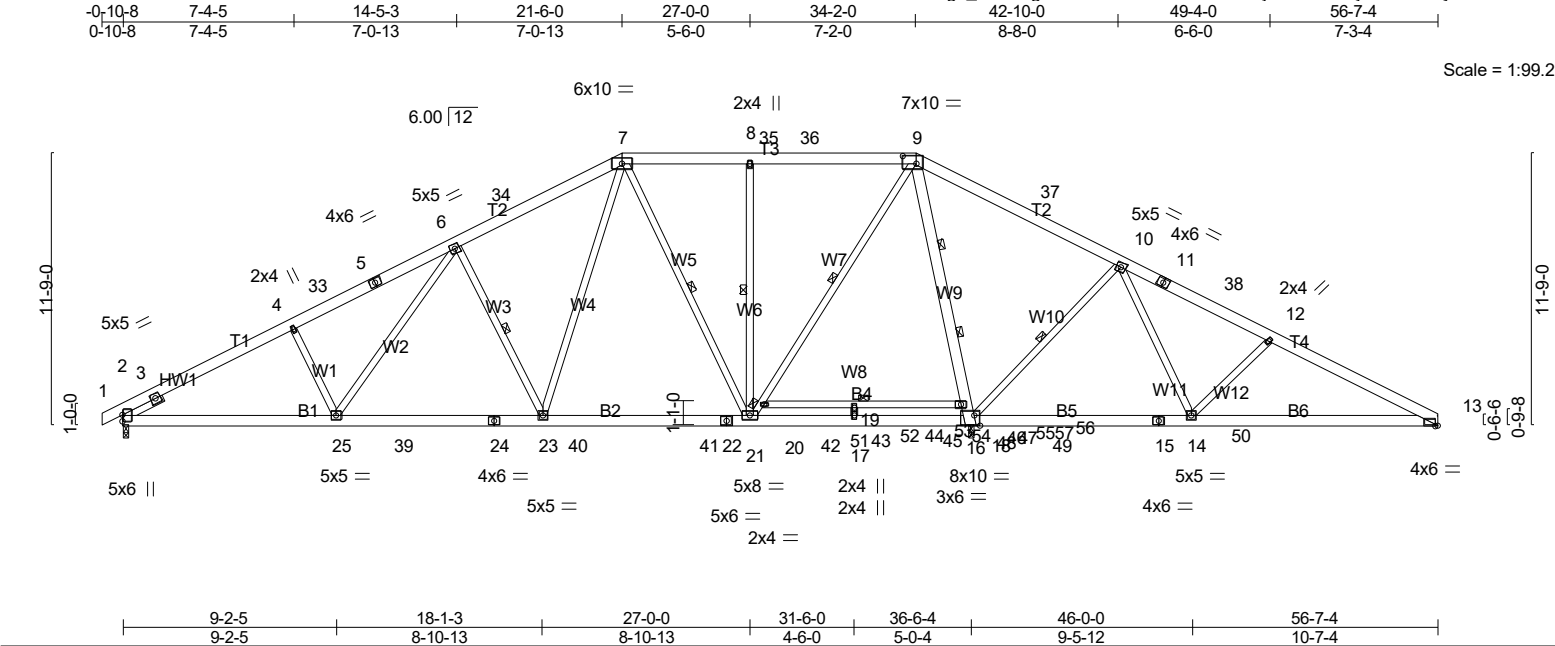


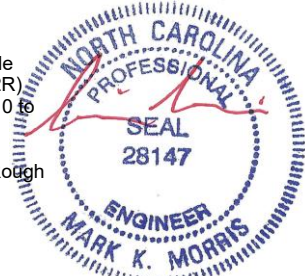
Plate Offsets (X,Y)--		[9:0-7-0,0-4-0], [13:0-1-4,Edge], [16:0-3-0,0-5-4]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)		2x6 SP No.2		TC 0.65		in (loc) l/defl L/d		MT20		244/190	
Snow (Pf)		Plate Grip DOL 1.15		BC 0.81		Vert(LL) -0.24 18-19 >999 240					
TCDL		Lumber DOL 1.15		WB 0.81		Vert(CT) -0.35 18-19 >999 180					
BCLL		Rep Stress Incr YES		Matrix-AS		Horz(CT) 0.04 16 n/a n/a					
BCDL		Code IRC2021/TPI2014						Weight: 454 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD 2x6 SP No.2		TOP CHORD	
BOT CHORD 2x6 SP No.2 *Except*		BOT CHORD	
WEBS 2x4 SP No.3 *Except*		WEBS	
SLIDER Left 2x4 SP No.3 1-11-0			
		Structural wood sheathing directly applied.	
		Rigid ceiling directly applied. Except:	
		6-0-0 oc bracing: 18-20	
		1 Row at midpt 6-23, 7-21, 8-21, 9-20, 10-16	
		2 Rows at 1/3 pts 9-16	
		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

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=1555(LC 92), 16=3976(LC 43), 13=531(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-942/30, 3-4=-2486/282, 4-33=-2338/291, 5-33=-2252/302, 5-6=-2227/319, 6-34=-1650/298, 7-34=-1512/320, 7-35=-855/239, 8-35=-855/239, 8-36=-855/239, 9-36=-855/239, 9-37=0/1309, 10-37=-6/1091, 10-11=-180/283, 11-38=-228/251, 12-38=-355/215, 12-13=-619/202
BOT CHORD 2-25=-323/2135, 25-39=-179/1743, 24-39=-179/1743, 23-24=-179/1743, 23-40=-56/1108, 40-41=-56/1108, 22-41=-56/1108, 21-22=-56/1108, 21-42=-427/250, 42-43=-427/250, 43-44=-427/250, 17-44=-427/250, 17-45=-427/250, 45-46=-427/250, 46-47=-427/250, 47-48=-427/250, 16-48=-427/250, 16-49=-405/102, 49-50=-405/102, 15-50=-405/102, 14-15=-405/102, 13-14=-106/516
WEBS 4-25=-334/199, 6-25=-108/537, 6-23=-996/281, 7-23=-179/1235, 7-21=-977/193, 8-21=-704/172, 20-21=-171/1834, 9-20=-149/1908, 9-18=-2693/342, 16-18=-2761/316, 10-16=-1152/294, 10-14=-46/606, 12-14=-411/188, 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; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 16-8-6, Exterior(2R) 16-8-6 to 26-3-10, Interior(1) 26-3-10 to 29-4-6, Exterior(2R) 29-4-6 to 38-11-10, Interior(1) 38-11-10 to 51-9-10, Exterior(2E) 51-9-10 to 56-7-4 zone; end vertical left 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.
Continued on page 2



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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 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R02	Piggyback Base	10	1	Job Reference (optional) # 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:26 2025 Page 2
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- NOTES-** (17-20)
- 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) 16 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 (jt=lb) 2=184, 16=111, 13=116.
 - 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - MULTIPLE LOADCASES – This design is the composite result of multiple load cases.
 - User moving load cases exist: Review the load cases for details.
 - 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.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 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 Except:

- 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
- 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
- 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
- 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
- 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
- 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
- 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-60(F=-20), 26-30=-20(F), 18-20=-20(F)
Concentrated Loads (lb)
Vert: 21=-150 42=-150
- 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
- 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-60(F=-20), 26-30=-20(F), 18-20=-20(F)
Concentrated Loads (lb)
Vert: 21=-150 42=-150
- 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
- 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 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R02	Piggyback Base	10	1	Job Reference (optional) # 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:26 2025 Page 3
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LOAD CASE(S)

- Uniform Loads (plf)
Vert: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-60(F=-20), 26-30=-20(F), 18-20=-20(F)
Concentrated Loads (lb)
Vert: 21=-150 42=-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: 1-7=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-60(F=-20), 26-30=-20(F), 18-20=-20(F)
Concentrated Loads (lb)
Vert: 21=-150 42=-150



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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R02	Piggyback Base	10	1	Job Reference (optional) # 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:26 2025 Page 4
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LOAD CASE(S)

- 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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-60(F=-20), 26-30=-20(F), 18-20=-20(F)
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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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



Continued on page 5

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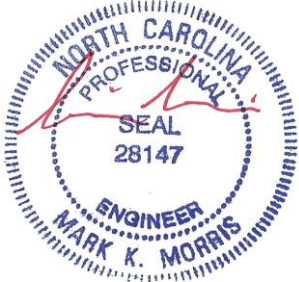
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R02	Piggyback Base	10	1	Job Reference (optional) # 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:26 2025 Page 5
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LOAD CASE(S)

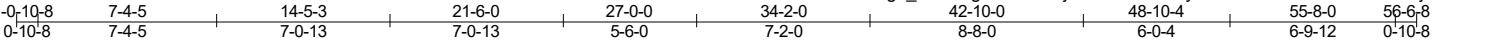
- 126) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-60(F=-20), 26-30=-20(F), 18-20=-20(F)
Concentrated Loads (lb)
Vert: 21=-150 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
- 128) 8th Unbal.1st User Defined Moving Load - Dead + Snow (balanced)-Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-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: 1-33=-60(F=-20), 7-33=-101(F=-20), 7-9=-32(F=-20), 9-38=-101(F=-20), 13-38=-60(F=-20), 26-30=-20(F), 18-20=-20(F)
Concentrated Loads (lb)
Vert: 21=-150 42=-150



4/16/2025

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.

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:27 2025 Page 1
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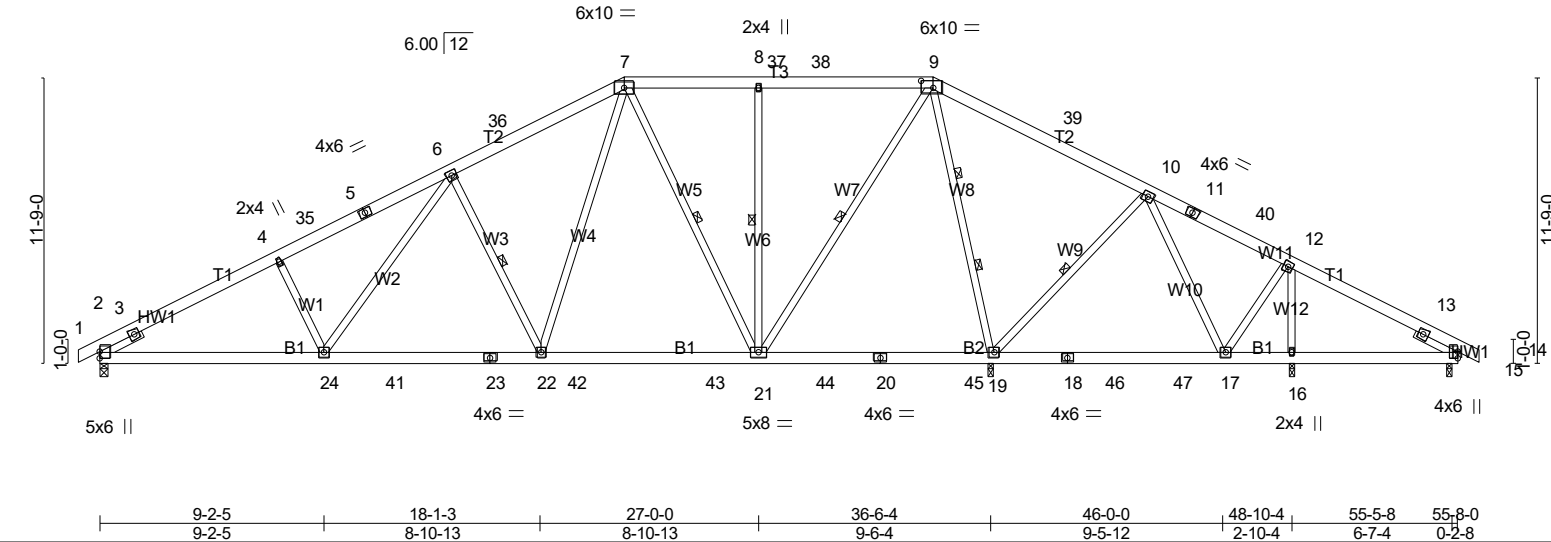


Plate Offsets (X,Y)-- [9:0-6-0,0-3-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	in (loc)	l/defl	L/d	GRIP
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(LL)	-0.19 22-24	>999	240
TCDL	10.0	Rep Stress Incr	YES	WB	0.97	Vert(CT)	-0.29 22-24	>999	180
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS		Horz(CT)	0.05 19	n/a	n/a
BCDL	10.0								
								Weight: 437 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
B2: 2x6 SP DSS
WEBS 2x4 SP No.3 *Except*
W8: 2x4 SP No.2
SLIDER Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0

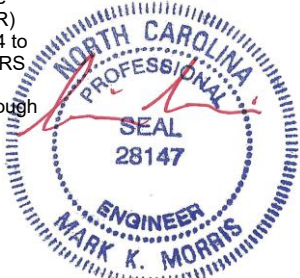
BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-22, 7-21, 8-21, 9-21, 10-19
2 Rows at 1/3 pts 9-19

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

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=1584(LC 39), 19=3193(LC 45), 14=415(LC 43), 16=497(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-970/37, 3-4=-2582/337, 4-35=-2441/348, 5-35=-2370/355, 5-6=-2348/373, 6-36=-1792/357, 7-36=-1646/385, 7-37=-880/316, 8-37=-880/316, 8-38=-880/316, 9-38=-880/316, 9-39=0/867, 10-39=0/692, 12-40=-290/151
BOT CHORD 2-24=-346/2224, 24-41=-200/1833, 23-41=-200/1833, 22-23=-200/1833, 22-42=-63/1146, 42-43=-63/1146, 21-43=-63/1146
WEBS 4-24=-340/199, 6-24=-111/523, 6-22=-992/282, 7-22=-174/1275, 7-21=-955/173, 8-21=-710/172, 9-21=-167/1638, 9-19=-2178/325, 10-19=-876/238, 10-17=-20/392, 12-16=-379/100

- 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) 0-10-8 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
 - 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.
 - All plates are 5x5 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R03	Piggyback Base	2	1	Job Reference (optional) # 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:27 2025 Page 2
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- NOTES-** (12-15)
- 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 (jt=lb) 2=195, 19=163, 14=103.
- 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



4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R03A	Piggyback Base	3	1	
Job Reference (optional)					# 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:28 2025 Page 1
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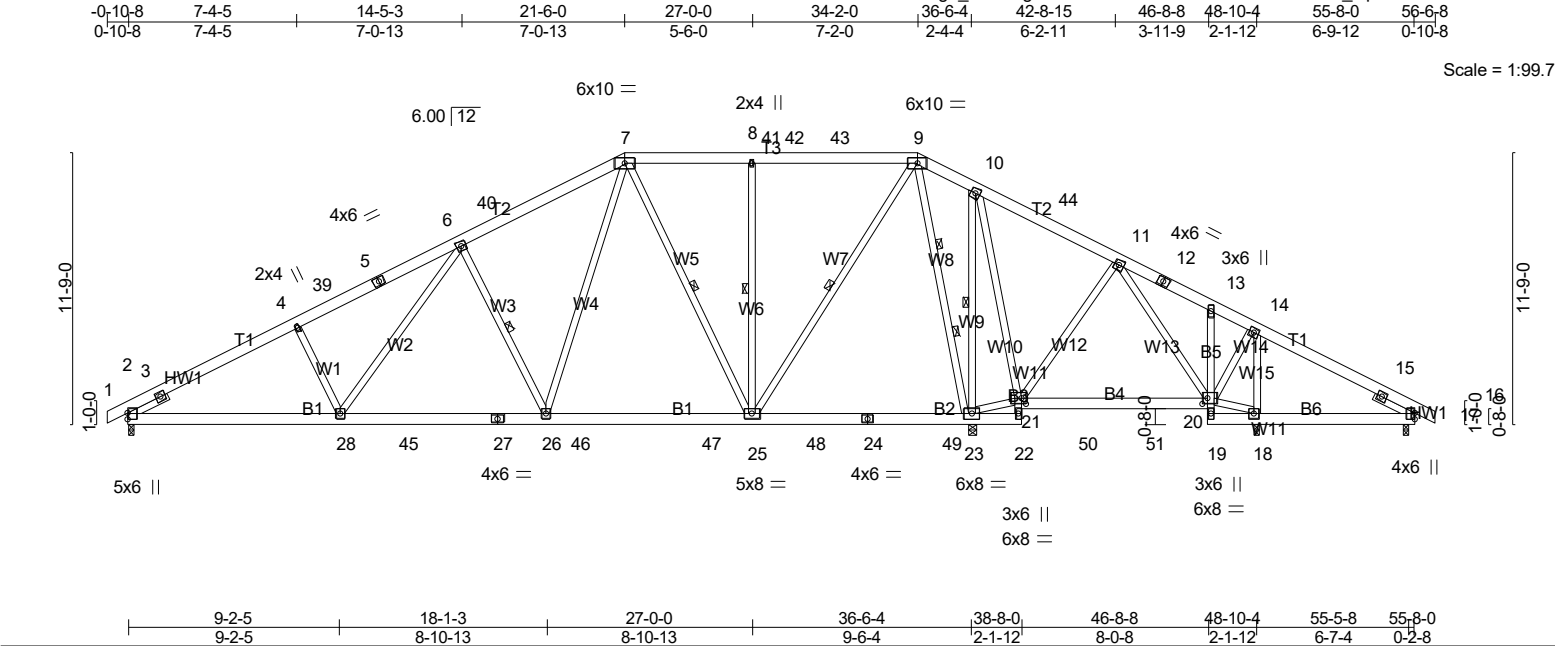


Plate Offsets (X,Y)-- [20:0-2-12,0-3-0], [21:0-2-5,0-3-0]		9-2-5 9-2-5		18-1-3 8-10-13		27-0-0 8-10-13		36-6-4 9-6-4		38-8-0 2-1-12		46-8-8 8-0-8		48-10-4 2-1-12		55-5-8 6-7-4		55-8-0 0-2-8	
LOADING (psf)		SPACING		CSI		DEFL.		PLATES		GRIP									
TCLL (roof) 20.0		2-0-0		TC 0.48		in (loc) l/defl L/d		MT20		244/190									
Snow (Pf) 20.0		Plate Grip DOL 1.15		BC 0.64		Vert(LL) -0.18 26-28 >999 240													
TCDL 10.0		Lumber DOL 1.15		WB 0.97		Vert(CT) -0.29 26-28 >999 180													
BCLL 0.0 *		Rep Stress Incr YES		Matrix-AS		Horz(CT) 0.05 18 n/a n/a													
BCDL 10.0		Code IRC2021/TPI2014																	

LUMBER-		BRACING-	
TOP CHORD 2x6 SP No.2		TOP CHORD Structural wood sheathing directly applied.	
BOT CHORD 2x6 SP No.2 *Except*		BOT CHORD Rigid ceiling directly applied.	
B2: 2x6 SP DSS, B3,B5: 2x4 SP No.2		WEBS 1 Row at midpt 6-26, 7-25, 8-25, 9-25, 10-23	
WEBS 2x4 SP No.3		2 Rows at 1/3 pts 9-23	
SLIDER Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS.	
All bearings 0-3-8 except (jt=length) 16=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), 23=-165(LC 14), 18=-101(LC 15)	
Max Grav All reactions 250 lb or less at joint(s) except 2=1550(LC 39), 23=3169(LC 45), 16=326(LC 55), 18=603(LC 43)	

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-948/37, 3-4=-2523/337, 4-39=-2382/347, 5-39=-2311/354, 5-6=-2289/373, 6-40=-1728/358, 7-40=-1582/386, 7-41=-853/313, 8-41=-853/313, 8-42=-853/313, 42-43=-853/313, 9-43=-853/313, 9-10=0/745, 10-44=0/770, 11-44=0/645, 11-12=-20/258	
BOT CHORD 2-28=-345/2172, 28-45=-199/1777, 27-45=-199/1777, 26-27=-199/1777, 26-46=-68/1118, 46-47=-68/1118, 25-47=-68/1118, 25-48=-287/203, 24-48=-287/203, 24-49=-287/203, 23-49=-287/203, 22-23=-438/0, 18-19=-288/0, 21-22=-277/0, 21-50=-313/92, 50-51=-313/92, 20-51=-313/92	
WEBS 4-28=-343/200, 6-28=-111/530, 6-26=-995/282, 7-26=-175/1279, 7-25=-976/173, 8-25=-724/174, 9-25=-206/1676, 9-23=-1925/227, 14-18=-456/108, 18-20=-32/257, 10-23=-866/203, 10-21=-55/349, 11-21=-629/189, 11-20=-53/363, 21-23=-417/252	

NOTES-	
(12-15)	
1) Unbalanced roof live loads have been considered for this design.	
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 4-8-5, Interior(1) 4-8-5 to 15-11-3, Exterior(2R) 15-11-3 to 27-0-0, Interior(1) 27-0-0 to 28-7-3, Exterior(2R) 28-7-3 to 39-8-13, Interior(1) 39-8-13 to 50-11-11, Exterior(2E) 50-11-11 to 56-6-8 zone; 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.	
Continued on page 2	



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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R03A	Piggyback Base	3	1	Job Reference (optional) # 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:28 2025 Page 2
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- NOTES-** (12-15)
- 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 (jt=lb) 2=195, 23=165, 18=101.
 - 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 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



4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R04	Piggyback Base	5	1	
Job Reference (optional)					# 58536

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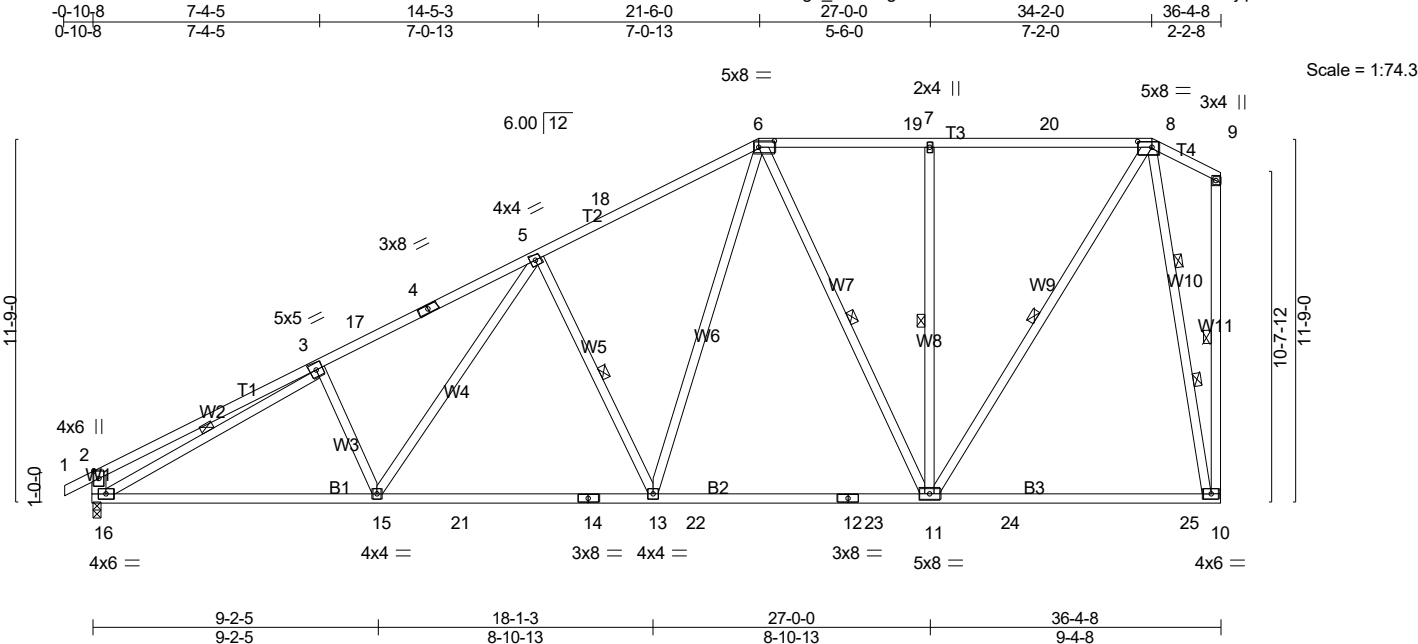


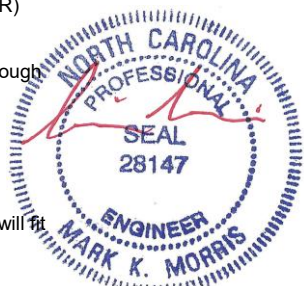
Plate Offsets (X,Y)-- [6:0-6-0,0-2-8], [8:0-5-8,0-2-4]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	in (loc)	l/defl	L/d	GRIP
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.99	Vert(LL)	-0.45 10-11	>954	240
TCDL	10.0	Rep Stress Incr	YES	WB	0.89	Vert(CT)	-0.65 10-11	>667	180
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-SH		Horz(CT)	0.09 10	n/a	n/a
BCDL	10.0								
								Weight: 264 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1 *Except* T4,T1: 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1 *Except* B1: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W1: 2x6 SP No.2	WEBS	1 Row at midpt 5-13, 6-11, 7-11, 8-11, 9-10, 3-16 2 Rows at 1/3 pts 8-10
		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 10=1439/Mechanical, 16=1507/0-3-8 (min. 0-2-1)
Max Horz 16=353(LC 14)
Max Uplift 10=-162(LC 11), 16=-180(LC 14)
Max Grav 10=1849(LC 44), 16=1734(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-620/207, 3-17=-2697/271, 4-17=-2601/283, 4-5=-2488/300, 5-18=-2072/263,
6-18=-1924/284, 6-19=-1140/207, 7-19=-1139/207, 7-20=-1139/207, 8-20=-1140/207,
2-16=-528/193
BOT CHORD 15-16=-499/2383, 15-21=-362/2068, 14-21=-362/2068, 13-14=-362/2068, 13-22=-244/1375,
12-22=-244/1375, 12-23=-244/1375, 11-23=-244/1375, 11-24=-56/311, 24-25=-56/311,
10-25=-56/311
WEBS 5-15=-105/482, 5-13=-957/281, 6-13=-177/1216, 6-11=-743/188, 7-11=-747/182,
8-11=-232/1562, 3-16=-2325/96, 8-10=-1684/325

- NOTES-** (11-14)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; 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 34-2-0, Exterior(2E) 34-2-0 to 36-2-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) 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.



Continued on page 2

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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 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R04	Piggyback Base	5	1	Job Reference (optional) # 58536

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- NOTES-** (11-14)
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=162, 16=180.
 - 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - 13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

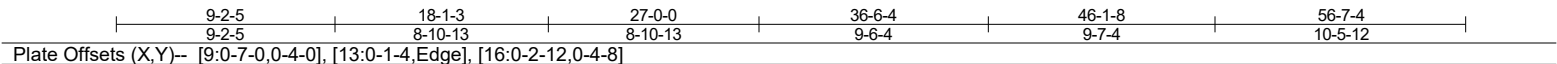
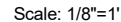
LOAD CASE(S) Standard



4/16/2025

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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	BRACING- TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 6-19, 7-17, 8-17, 9-17, 9-16, 10-16 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-898/35, 3-4=-2388/301, 4-29=-2248/309, 5-29=-2178/321, 5-6=-2154/338,
6-30=-1578/317, 7-30=-1440/339, 7-31=-712/264, 8-31=-712/264, 8-32=-712/264,
9-32=-712/264, 9-33=0/1267, 10-33=-11/1061, 11-34=-258/207, 12-34=-384/171,
12-13=-638/192

BOT CHORD 2-21=-339/2054, 21-35=-196/1677, 20-35=-196/1677, 19-20=-196/1677, 19-36=-75/1034,
36-37=-75/1034, 18-37=-75/1034, 17-18=-75/1034, 17-38=-484/238, 38-39=-484/238,
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13-14=-93/531

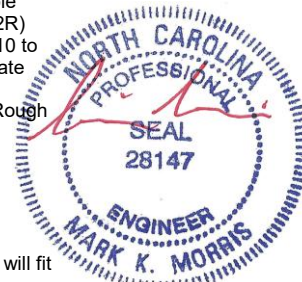
WEBS 4-21=-344/197, 6-21=-108/537, 6-19=-997/281, 7-19=-173/1265, 7-17=-1072/178,
8-17=-708/172, 9-17=-189/1744, 9-16=-2488/381, 10-16=-1165/292, 10-14=-42/632,
12-14=-396/185

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BC DL=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 BC DL = 10.0psf.

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R05	Piggyback Base	4	1	Job Reference (optional) # 58536

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- NOTES-** (13-16)
- 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=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 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

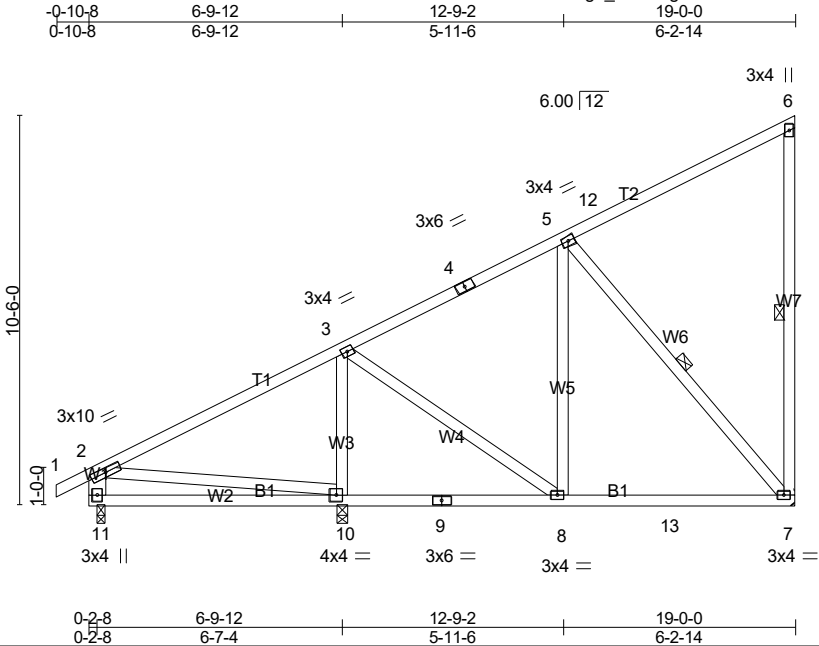


4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R06	Monopitch	3	1	
Job Reference (optional)					# 58536

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Scale = 1:62.0

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	0.10	10-11	>784	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	0.08	10-11	>998		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	-0.01	7	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-SH							
BCDL	10.0									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 7'-4'-14 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=-303/64
BOT CHORD 10-11=-520/293, 8-13=-122/301, 7-13=-122/301
WEBS 3-10=-579/120, 3-8=0/266, 5-7=-447/183, 2-10=-179/308

- NOTES-** (9-12)
- 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; 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
 - 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, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 10 except (jt=lb) 7=198.



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R06	Monopitch	3	1	Job Reference (optional) # 58536

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

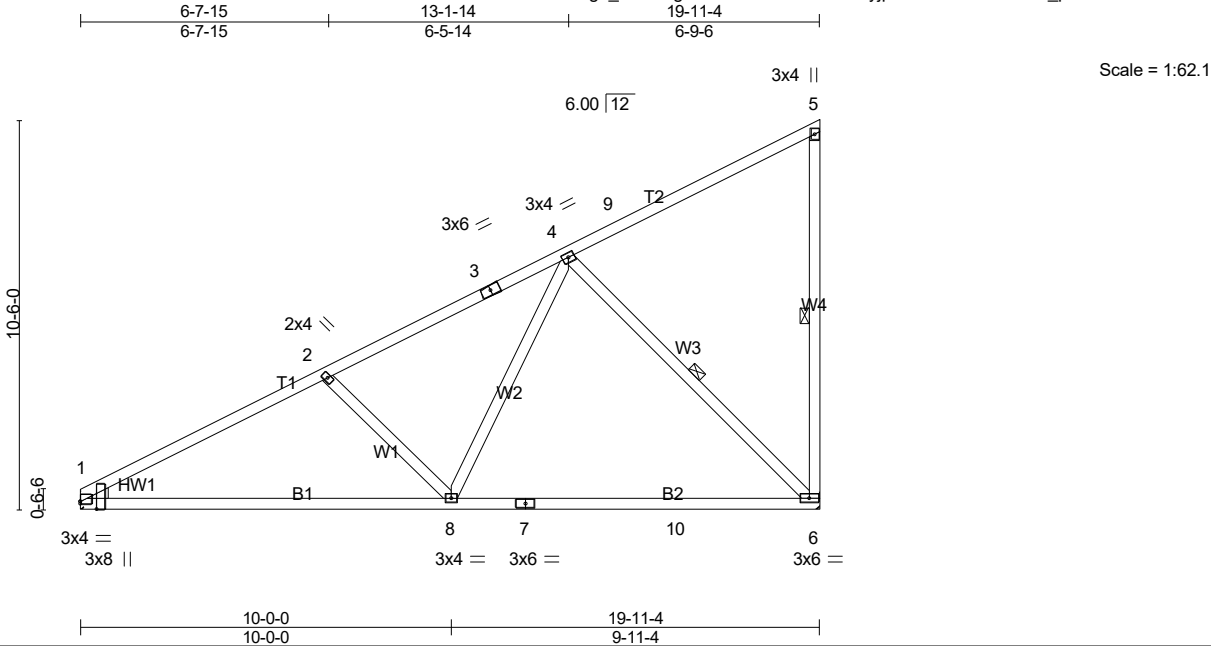


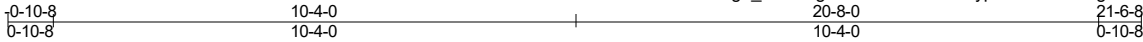
4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R07	Jack-Closed	2	1	
Job Reference (optional)					# 58536

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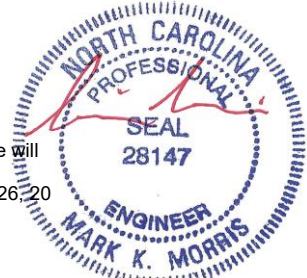
Plate Offsets (X,Y)-- [8:0-3-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL (roof)	20.0	2-0-0	Plate Grip DOL	1.15	TC	0.14	in (loc)	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(LL)	-0.00 15 n/r 180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Vert(CT)	-0.00 15 n/r 80		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-R		Horz(CT)	0.00 16 n/a n/a		
BCDL	10.0							Weight: 125 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.3	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 20-8-0.
(lb) - Max Horz 28=171(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 28, 16, 24, 25, 26, 20, 19, 18 except 27=-125(LC 14), 17=-117(LC 15)
Max Grav All reactions 250 lb or less at joint(s) 28, 16, 25, 26, 27, 19, 18, 17 except 23=281(LC 5), 24=292(LC 5), 22=281(LC 6), 20=292(LC 6)

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

- 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 3-11-2, Exterior(2N) 3-11-2 to 5-3-4, Corner(3R) 5-3-4 to 15-4-12, Exterior(2N) 15-4-12 to 16-8-14, Corner(3E) 16-8-14 to 21-6-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 16, 24, 25, 26, 20, 19, 18 except (jt=lb) 27=125, 17=117.



Continued on page 2

4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R08	GABLE	1	1	Job Reference (optional) # 58536

- Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:31 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

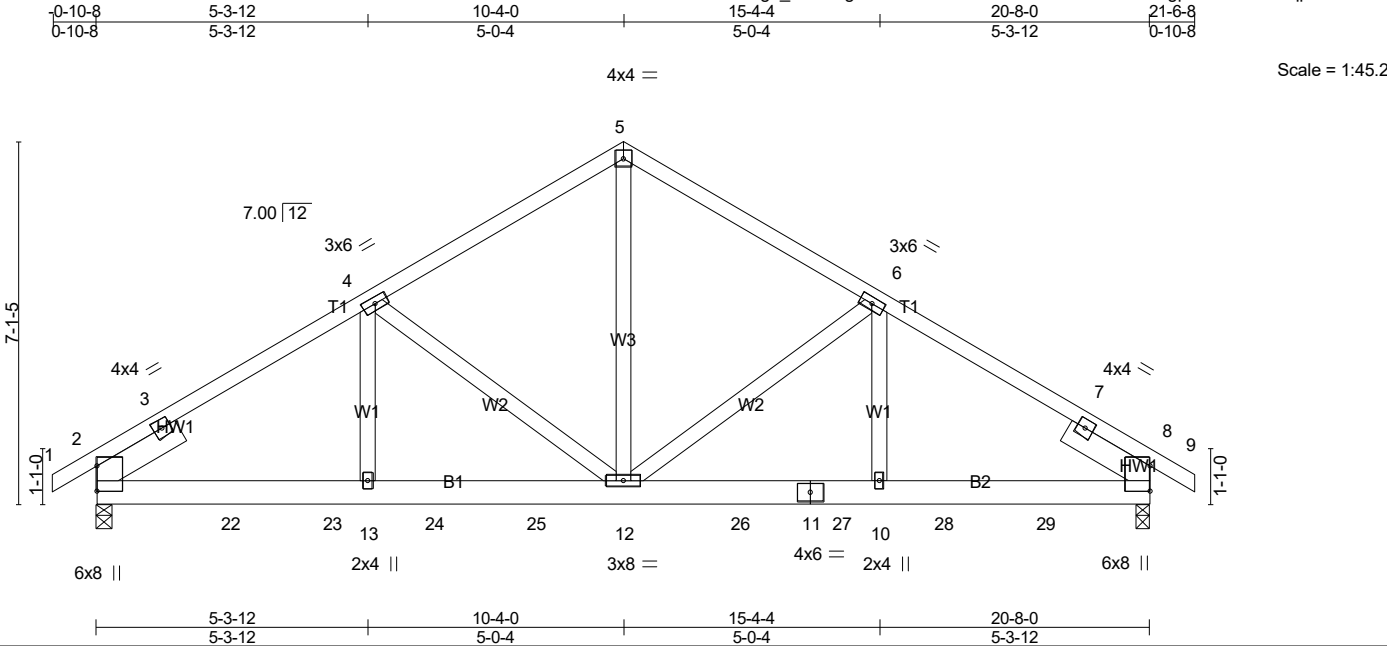


4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R09	Common Girder	1	3	
Job Reference (optional)					# 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:32 2025 Page 1
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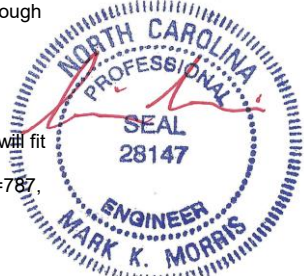
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.72	Vert(LL) -0.07 12-13 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.40	Vert(CT) -0.12 12-13 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MSH	Horz(CT) 0.04 8 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 400 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 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 1-11-0, Right 2x6 SP No.2 1-11-0	

REACTIONS. (lb/size) 2=3630/0-3-8 (min. 0-1-8), 8=3242/0-3-8 (min. 0-1-8)
Max Horz 2=-144(LC 10)
Max Uplift 2=-787(LC 12), 8=-694(LC 13)
Max Grav 2=3670(LC 19), 8=3283(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2204/429, 3-4=-4346/934, 4-5=-3311/752, 5-6=-3311/753, 6-7=-4309/925, 7-8=-2167/420
BOT CHORD 2-22=-811/3659, 22-23=-811/3659, 13-23=-811/3659, 13-24=-811/3659, 24-25=-811/3659, 12-25=-811/3659, 12-26=-708/3627, 11-26=-708/3627, 11-27=-708/3627, 10-27=-708/3627, 10-28=-708/3627, 28-29=-708/3627, 8-29=-708/3627
WEBS 5-12=-644/2879, 6-12=-1049/322, 6-10=-203/914, 4-12=-1089/331, 4-13=-213/956

- NOTES-** (12-15)
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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=787, 8=694.



Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R09	Common Girder	1	3	Job Reference (optional) # 58536

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- NOTES-** (12-15)
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 515 lb down and 132 lb up at 0-7-4, 511 lb down and 136 lb up at 2-7-4, 511 lb down and 136 lb up at 4-7-4, 511 lb down and 136 lb up at 6-7-4, 511 lb down and 136 lb up at 8-7-4, 511 lb down and 136 lb up at 10-7-4, 511 lb down and 136 lb up at 12-7-4, 511 lb down and 136 lb up at 14-7-4, and 511 lb down and 136 lb up at 16-7-4, and 511 lb down and 136 lb up at 18-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 - 13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
 - 14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 - 15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-5=-60, 5-9=-60, 14-18=-20
 - Concentrated Loads (lb)
 - Vert: 12=-511(B) 16=-515(B) 22=-511(B) 23=-511(B) 24=-511(B) 25=-511(B) 26=-511(B) 27=-511(B) 28=-511(B) 29=-511(B)

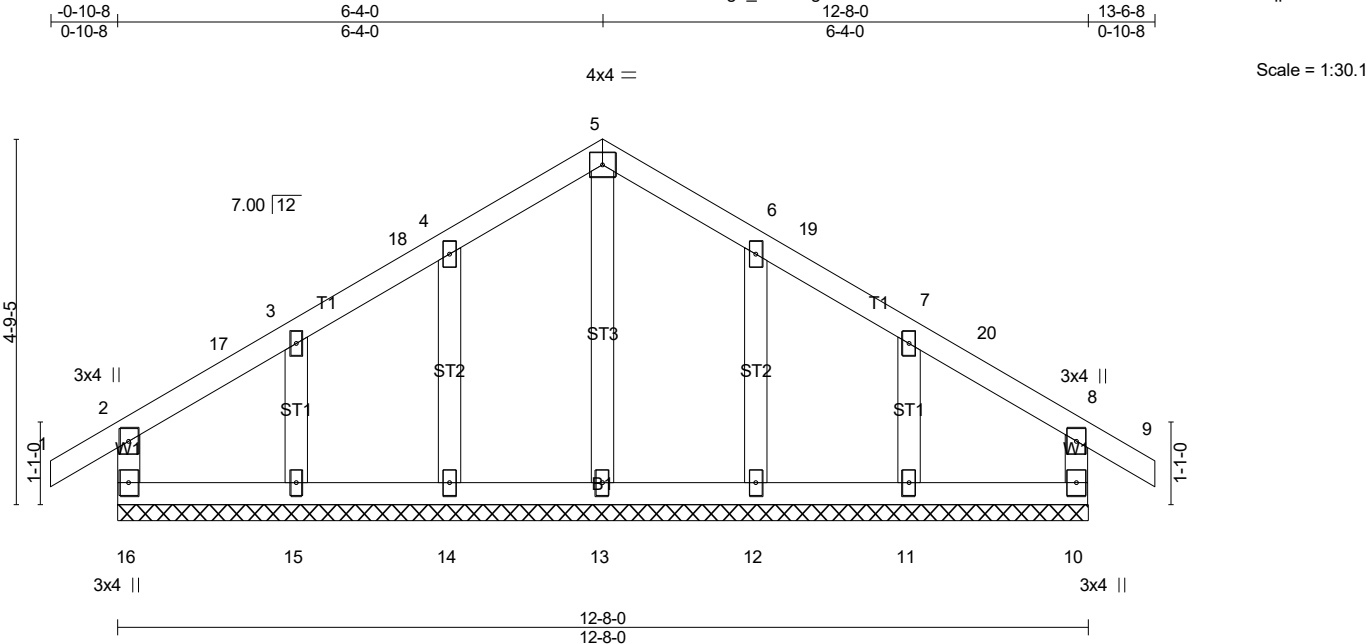


4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R10	Common Supported Gable	1	1	Job Reference (optional) # 58536

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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.12	Vert(LL)	-0.00	9	n/r	180	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	-0.00	9	n/r	80		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	10	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R							
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 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 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.
 - 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.
 - 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.



Continued on page 2

4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R10	Common Supported Gable	1	1	Job Reference (optional) # 58536

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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



4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R11	Common	2	1	
Job Reference (optional)					# 58536

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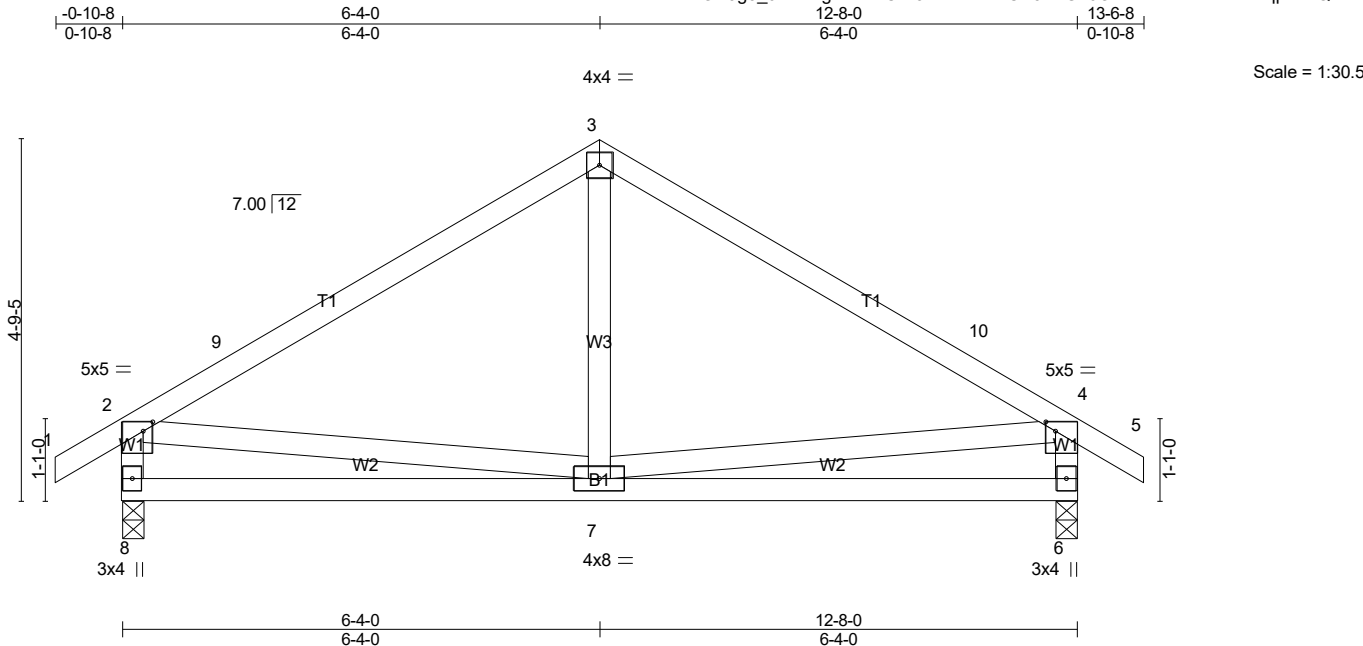


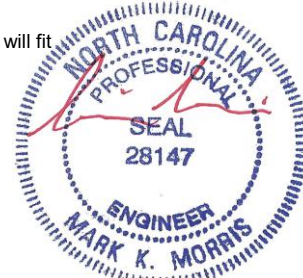
Plate Offsets (X,Y)-- [2:0-1-8,0-1-8], [4:0-1-8,0-1-8]																			
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		L/defl		L/d		PLATES		GRIP	
TCLL (roof) 20.0		Plate Grip DOL 1.15				TC 0.70		Vert(LL) -0.03		7-8		>999		240		MT20		244/190	
Snow (Pf) 20.0		Lumber DOL 1.15				BC 0.34		Vert(CT) -0.06		7-8		>999		180					
TCDL 10.0		Rep Stress Incr YES				WB 0.11		Horz(CT) 0.00		6		n/a		n/a					
BCLL 0.0 *		Code IRC2021/TPI2014				Matrix-SH													
BCDL 10.0																			
										Weight: 70 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 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except*		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
	W1: 2x4 SP No.2		

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.



Continued on page 2

4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R11	Common	2	1	Job Reference (optional) # 58536

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

LOAD CASE(S) Standard



4/16/2025

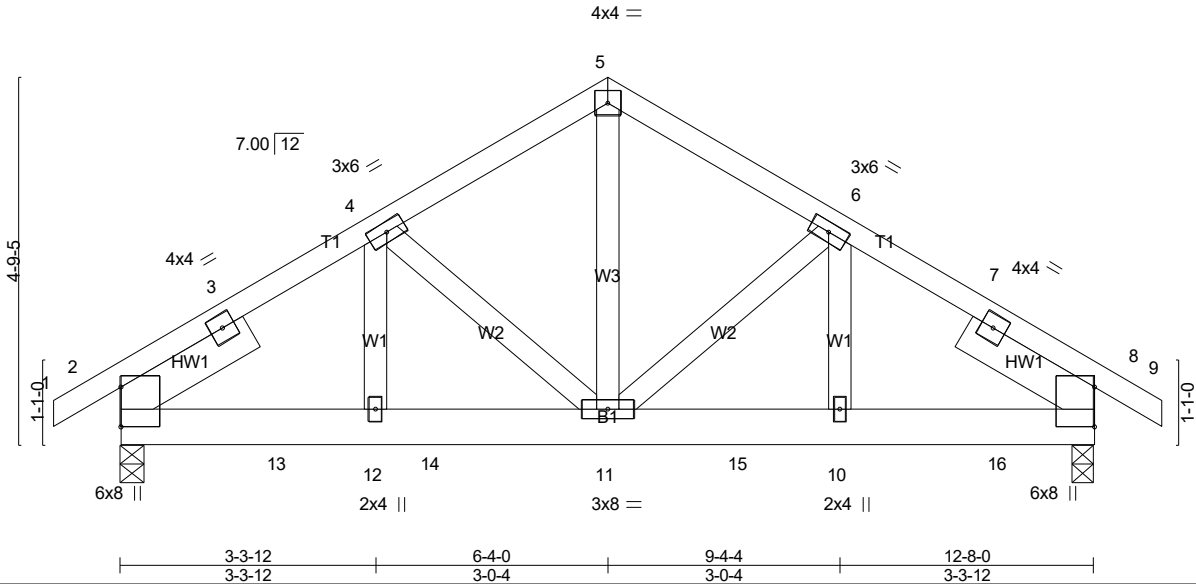
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R12	Common Girder	1	2	
Job Reference (optional)					# 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:33 2025 Page 1
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Scale = 1:30.0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.03 10-11 >999 240	MT20		244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.05 10-11 >999 180				
TCDL	10.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.02 8 n/a n/a				
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-SH							
BCDL	10.0										
Weight: 175 lb										FT = 20%	

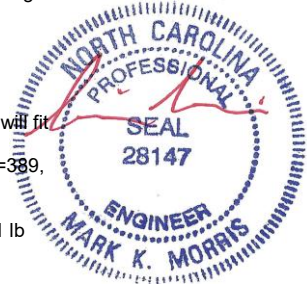
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12		

REACTIONS. (lb/size) 2=2077/0-3-8 (min. 0-1-8), 8=2698/0-3-8 (min. 0-1-10)
Max Horz 2=95(LC 9)
Max Uplift 2=-389(LC 12), 8=-376(LC 13)
Max Grav 2=2153(LC 19), 8=2775(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2701/463, 3-4=-2659/486, 4-5=-2192/415, 5-6=-2190/415, 6-7=-3116/472, 7-8=-3146/450
BOT CHORD 2-13=-402/2153, 12-13=-402/2153, 12-14=-402/2153, 11-14=-402/2153, 11-15=-336/2540, 10-15=-336/2540, 10-16=-336/2540, 8-16=-336/2540
WEBS 5-11=-340/1842, 6-11=-886/130, 6-10=-95/1081, 4-11=-375/146, 4-12=-109/496

- 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; BC DL=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) 519 lb down and 133 lb up at 2-0-12, 519 lb down and 133 lb up at 4-0-12, 519 lb down and 133 lb up at 6-0-12, 519 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.

Continued on page 2



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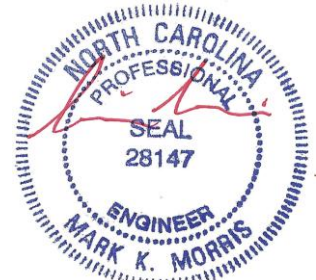
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	R12	Common Girder	1	2	Job Reference (optional) # 58536

- Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:33 2025 Page 2
ID:kHdPkcON9g3_0lfrDBlgKRzexCS-Xw9lo1_43DKlhyISvjv8uprrXtWK0kdMdYZMxEzQBEG
- 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=-519(B) 10=-791(B) 13=-519(B) 14=-519(B) 15=-519(B) 16=-791(B)



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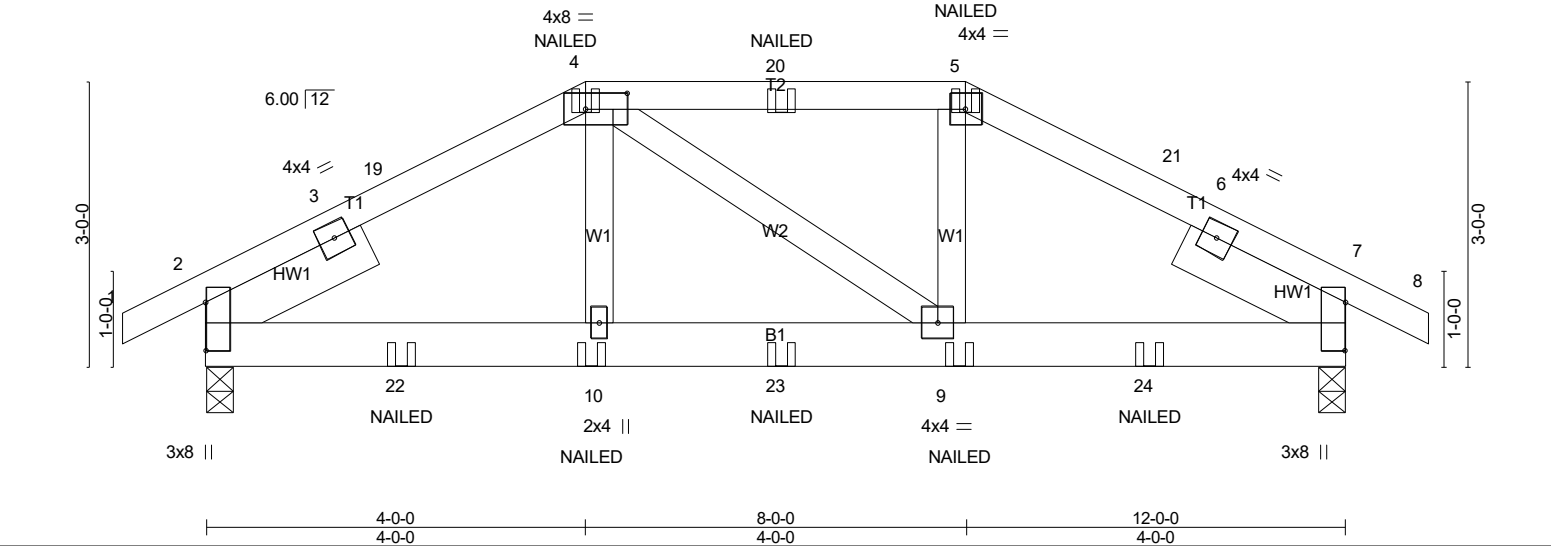


Plate Offsets (X,Y)-- [2:0-6-1,0-0-1], [4:0-5-4,0-2-0], [7:0-6-1,0-0-1]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL (roof)	20.0	2-0-0	Plate Grip DOL	1.15	TC	0.60	in (loc) l/defl L/d	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(LL)	-0.02 9-10 >999 240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.07	Vert(CT)	-0.04 9-10 >999 180		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MSH		Horz(CT)	0.01 7 n/a n/a		
BCDL	10.0							Weight: 72 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3

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

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-10-14 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.

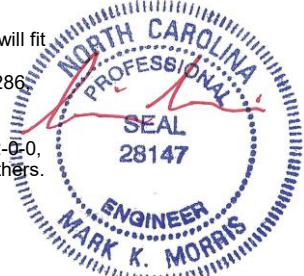
REACTIONS. (lb/size) 2=916/0-3-8 (min. 0-1-8), 7=918/0-3-8 (min. 0-1-8)
Max Horz2=36(LC 16)
Max Uplift2=-286(LC 9), 7=-287(LC 8)
Max Grav2=1074(LC 37), 7=1075(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-364/178, 3-19=-1213/389, 4-19=-1105/377, 4-20=-991/351, 5-20=-991/351, 5-21=-1105/377, 6-21=-1214/389, 6-7=-366/179
BOT CHORD 2-22=-319/986, 10-22=-319/986, 10-23=-322/992, 9-23=-322/992, 9-24=-301/985, 7-24=-301/985

- NOTES- (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; 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=286, 7=287.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 141 lb down and 53 lb up at 2-0-0, and 141 lb down and 53 lb up at 10-0-0 on top 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).

LOAD CASE(S) Standard

Continued on page 2



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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	SP01	Hip Girder	1	1	Job Reference (optional) # 58536

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LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-60, 5-8=-60, 11-15=-20
Concentrated Loads (lb)
Vert: 4=-94(B) 5=-94(B) 10=-27(B) 9=-27(B) 19=-139(F) 20=-94(B) 21=-139(F) 22=-64(B) 23=-27(B) 24=-64(B)

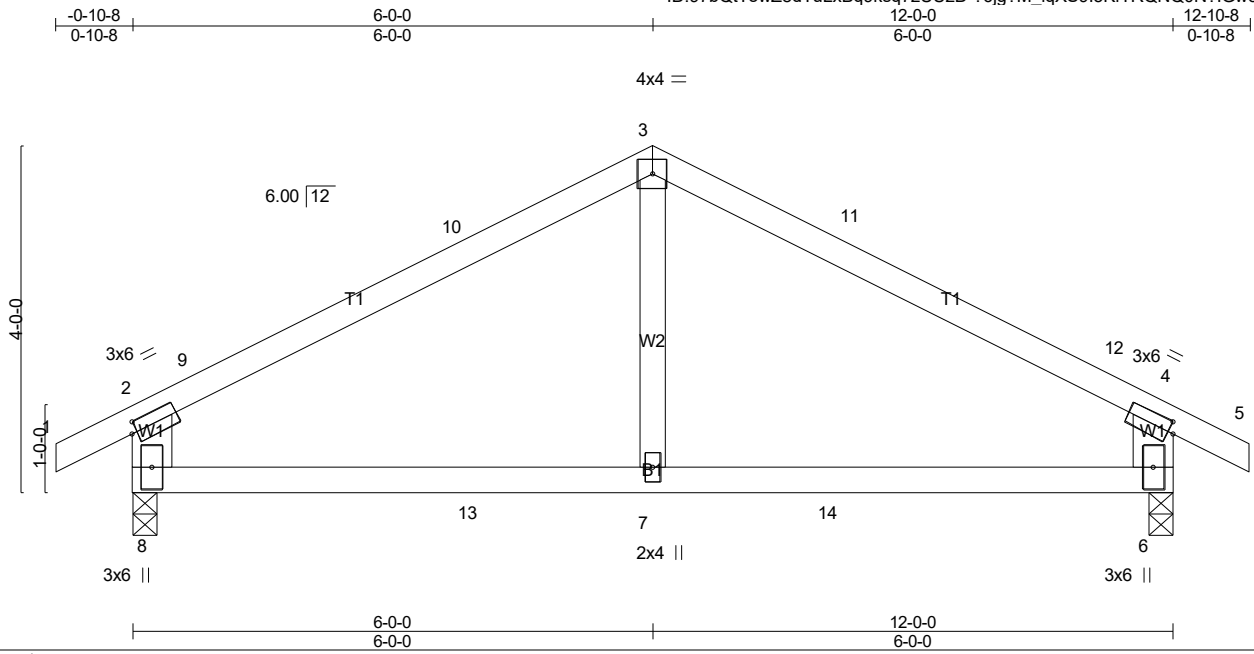


4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	SP02	Common	2	1	
Job Reference (optional)					# 58536

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Scale = 1:26.6

Plate Offsets (X,Y)-- [2:0-0-12,0-1-8], [4:0-0-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	0.06	6-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	Vert(CT)	-0.06	6-7	>999		
TCDL	10.0	Rep Stress Incr	YES	Horz(CT)	0.01	6	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014	Matrix-AS						
BCDL	10.0							Weight: 49 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
W2: 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied, except end verticals.
Rigid ceiling directly applied.

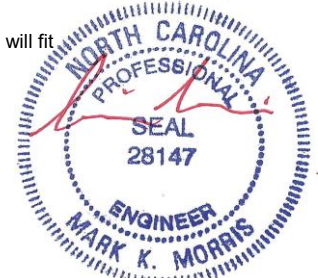
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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 13)
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=-568/596, 9-10=-496/596, 3-10=-424/619, 3-11=-424/618, 11-12=-496/595,
4-12=-568/595, 2-8=-551/483, 4-6=-551/481
BOT CHORD 8-13=-381/393, 7-13=-381/393, 7-14=-381/393, 6-14=-381/393
WEBS 3-7=-330/220

- NOTES-** (10)
- 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 and C-C Corner(3E) -0-10-8 to 3-11-2, Corner(3R) 3-11-2 to 8-0-14, Corner(3E) 8-0-14 to 12-10-8 zone; 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.
 - 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.
 - 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.

LOAD CASE(S) Standard



4/16/2025

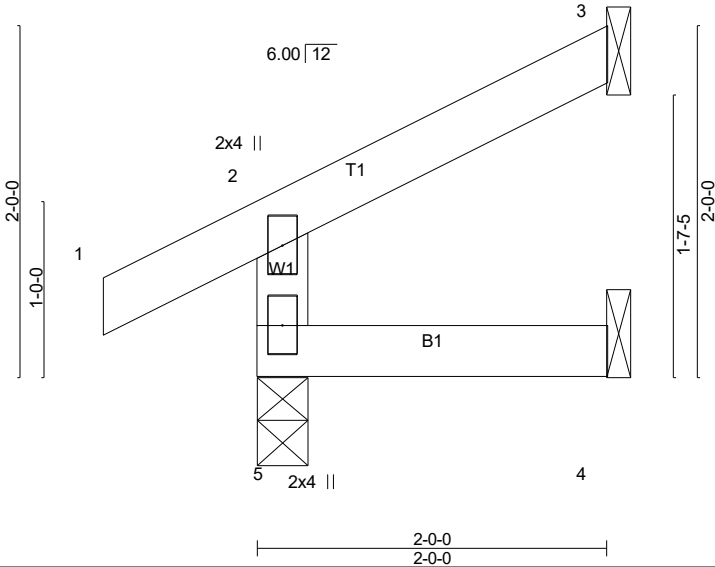
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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	SPJ01	Jack-Open	2	1	Job Reference (optional) # 58536

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Scale = 1:13.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.16	Vert(LL)	0.00	5	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	-0.00	4-5	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR							
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 2x4 SP No.3

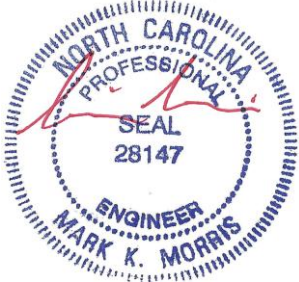
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation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

REACTIONS. (lb/size) 5=152/0-3-8 (min. 0-1-8), 3=41/Mechanical, 4=16/Mechanical
Max Horz 5=41(LC 11)
Max Uplift 5=-15(LC 14), 3=-31(LC 14), 4=-13(LC 11)
Max Grav 5=208(LC 21), 3=57(LC 21), 4=34(LC 7)

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

- NOTES-** (9)
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=5.0psf; BC DL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.

LOAD CASE(S) Standard

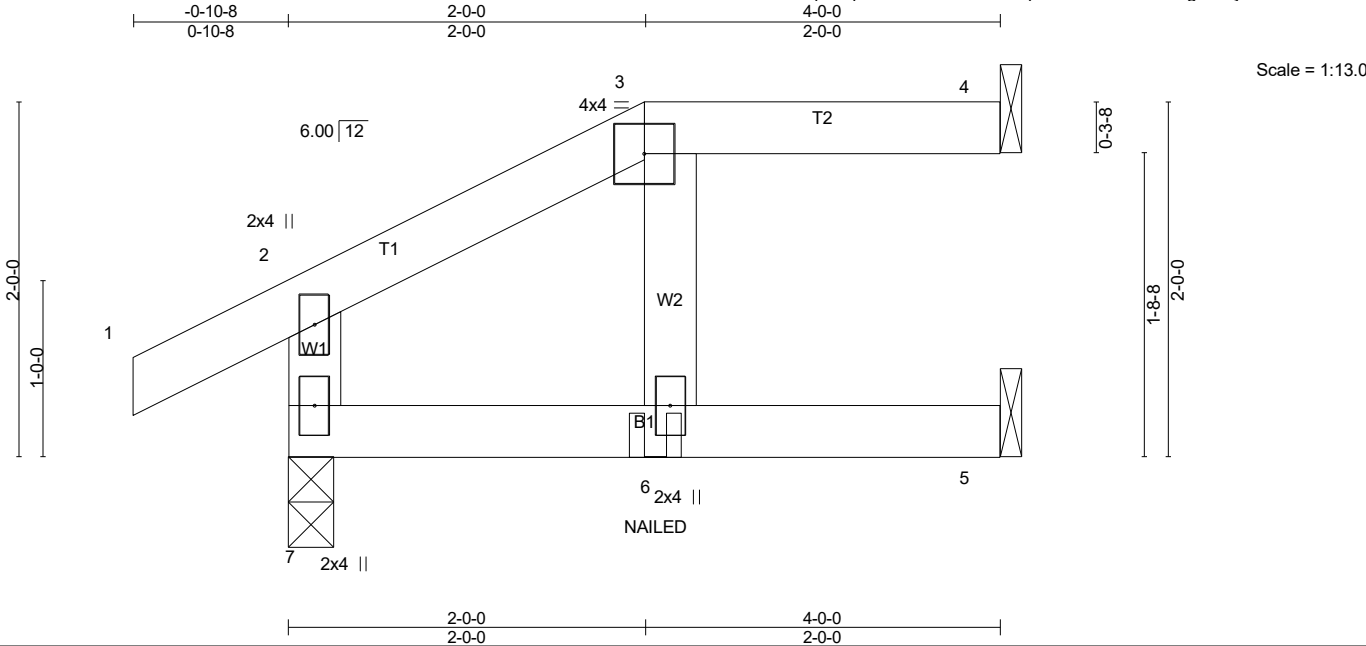


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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	SPJ02	Half Hip Girder	2	1	
Job Reference (optional)					# 58536

Run: 85.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:35 2025 Page 1
ID: 97bQtTowZ8dTuLxBq9ksq7zUuZD-UJG2Di?Kbqa0wFvr18xczEwFmgHHUjnf5s2T06zQBEE



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2'-0"-0	TC 0.24	Vert(LL)	-0.02	6	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.30	Vert(CT)	-0.03	6	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.03	4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 17 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4'-0"-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0"-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=96/Mechanical, 7=250/0-3-0 (min. 0-1-8), 5=75/Mechanical
Max Horz 7=42(LC 9)
Max Uplift 4=-41(LC 9), 7=-51(LC 9), 5=-33(LC 9)
Max Grav 4=139(LC 33), 7=343(LC 34), 5=84(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-265/45

- NOTES-** (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; BCCL=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 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.
 - 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) 4, 7, 5.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 22 lb up at 2'-0"-0 on top 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).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	SPJ02	Half Hip Girder	2	1	Job Reference (optional) # 58536

Run: 85.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:35 2025 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-57(F) 6=0(F)

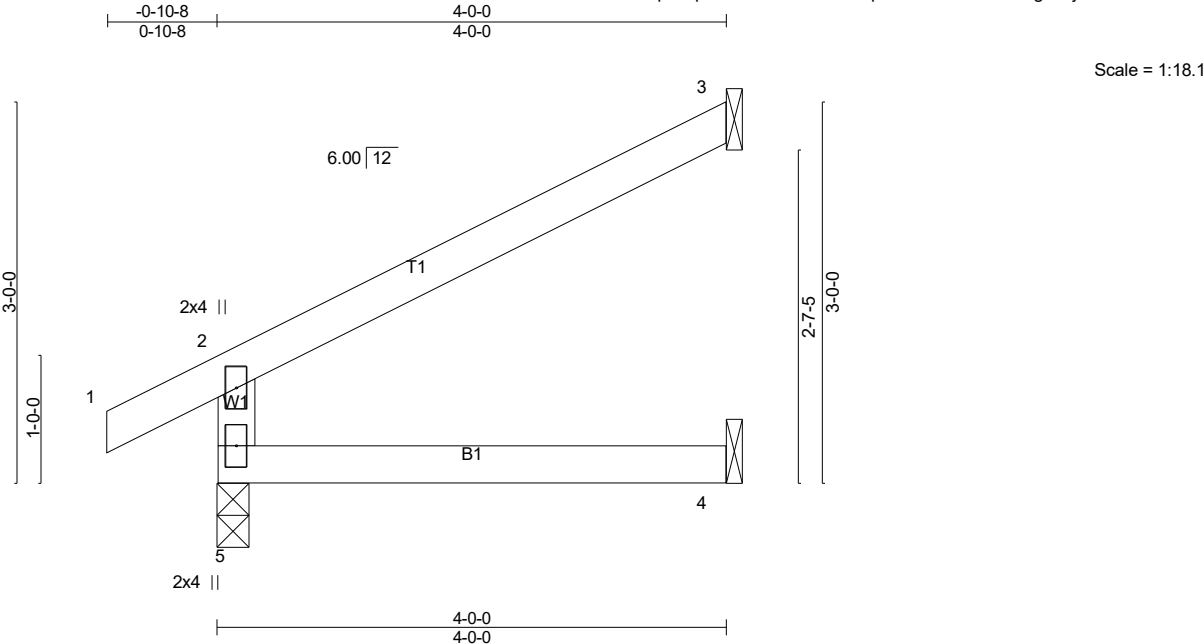


4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	SPJ03	Jack-Open	3	1	
Job Reference (optional)					# 58536

Run: 85.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:35 2025 Page 1
ID:97bQtTowZ8dTuLxBq9ksq7zUUzD-UJG2Di?Kbqa0wFvr18xczEwDWglBUj4f5s2T06zQBEE



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2'-0'-0	TC 0.32	Vert(LL)	0.04	4-5	>999	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.24	Vert(CT)	0.03	4-5	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 15 lb	FT = 20%

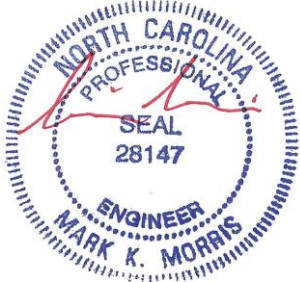
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4'-0'-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0'-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=221/0-3-0 (min. 0-1-8), 3=101/Mechanical, 4=43/Mechanical
Max Horz 5=71(LC 14)
Max Uplift 5=-20(LC 11), 3=-60(LC 14), 4=-19(LC 11)
Max Grav 5=322(LC 21), 3=154(LC 21), 4=72(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-293/121

- NOTES-** (9)
- 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 and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.

LOAD CASE(S) Standard

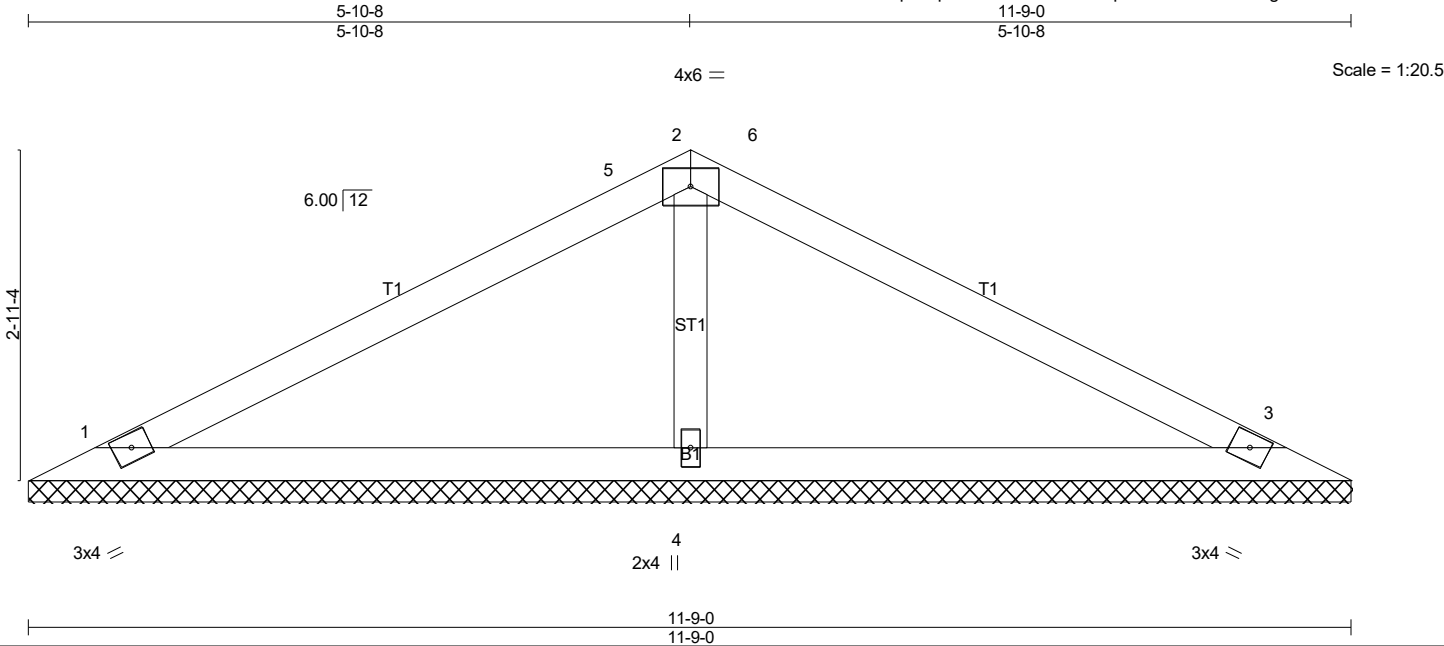


4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	VS01	Valley	1	1	Job Reference (optional) # 58536

Run: 85.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:35 2025 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.62	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.46	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-S							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 39 lb	FT = 20%

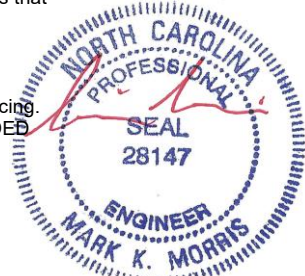
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=191/11-9-0 (min. 0-1-8), 3=191/11-9-0 (min. 0-1-8), 4=459/11-9-0 (min. 0-1-8)
Max Horz 1=39(LC 14)
Max Uplift 1=-38(LC 14), 3=-45(LC 15), 4=-27(LC 14)
Max Grav 1=279(LC 20), 3=279(LC 21), 4=473(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-319/164

- NOTES-** (9-12)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-7 to 5-5-0, Exterior(2R) 5-5-0 to 6-4-0, Exterior(2E) 6-4-0 to 11-1-9 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) 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

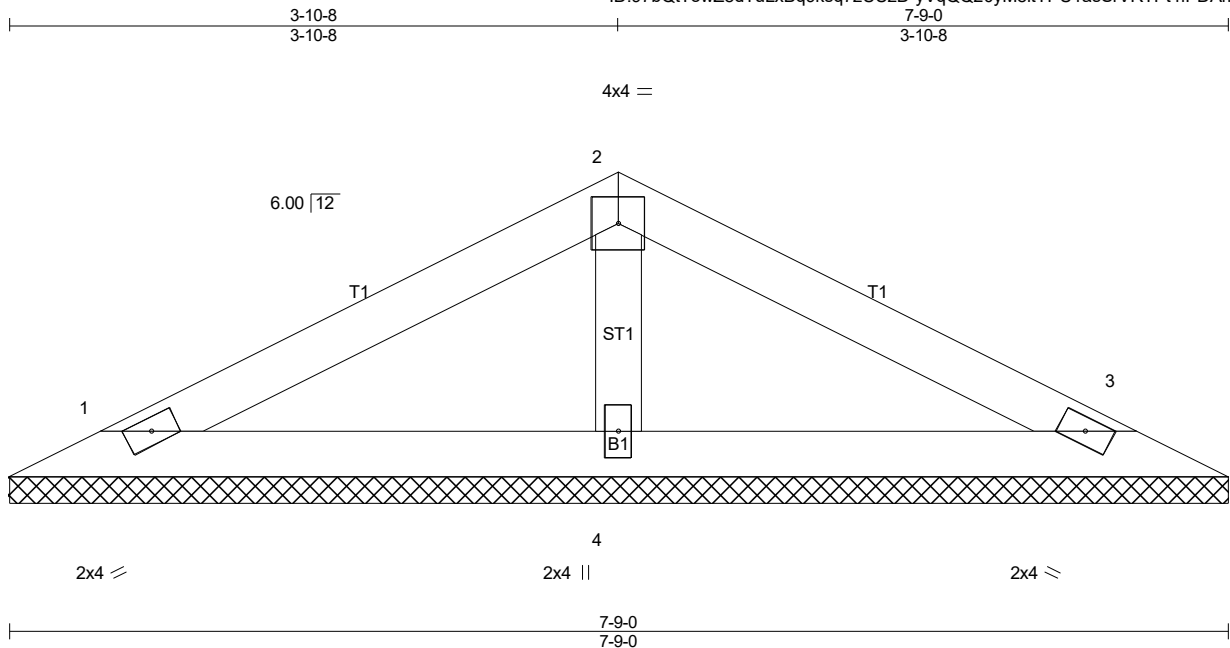


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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	VS02	Valley	1	1	Job Reference (optional) # 58536

Run: 85.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:36 2025 Page 1
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Scale = 1:14.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (PF) 20.0	Plate Grip DOL 1.15	BC 0.18	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 24 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=132/7-9-0 (min. 0-1-8), 3=132/7-9-0 (min. 0-1-8), 4=258/7-9-0 (min. 0-1-8)
Max Horz 1=24(LC 18)
Max Uplift 1=-29(LC 14), 3=-34(LC 15), 4=-5(LC 14)
Max Grav 1=176(LC 20), 3=176(LC 21), 4=258(LC 1)

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; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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.
- 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



4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	VS03	Valley	1	1	
Job Reference (optional)					# 58536

Run: 85.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:36 2025 Page 1
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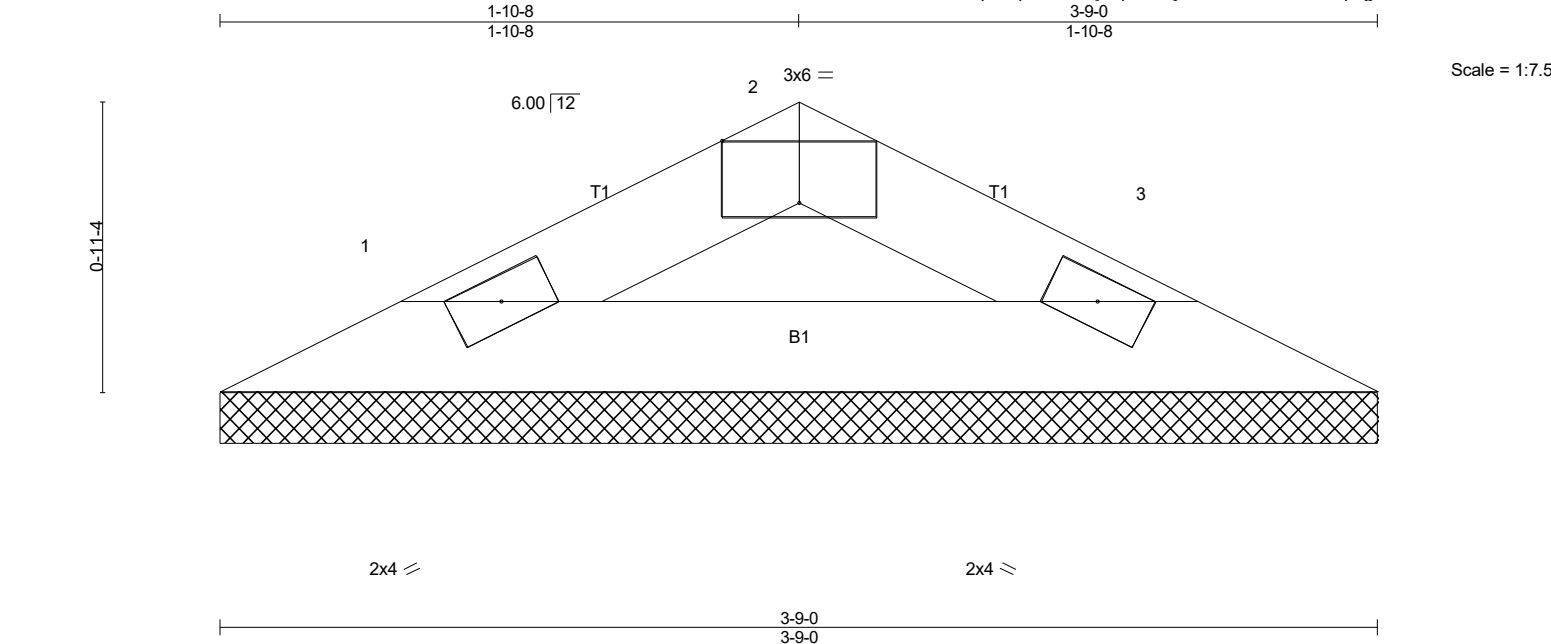


Plate Offsets (X,Y)-- [2:0-3-0,Edge]		3-9-0	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL (roof) 20.0	2-0-0	TC 0.03	in (loc) l/defl L/d
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) n/a - n/a 999
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a
BCDL 10.0	Code IRC2021/TPI2014		
			PLATES GRIP
			MT20 244/190
			Weight: 10 lb FT = 20%

LUMBER-	BRACING-	
TOP CHORD 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-9-0 oc purlins.
BOT CHORD 2x4 SP No.3	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=101/3-9-0 (min. 0-1-8), 3=101/3-9-0 (min. 0-1-8)
Max Horz 1=9(LC 14)
Max Uplift 1=12(LC 14), 3=12(LC 15)
Max Grav 1=108(LC 20), 3=108(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; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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
 - 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.
 - 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



4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	VT01	Valley	1	1	
Job Reference (optional)					# 58536

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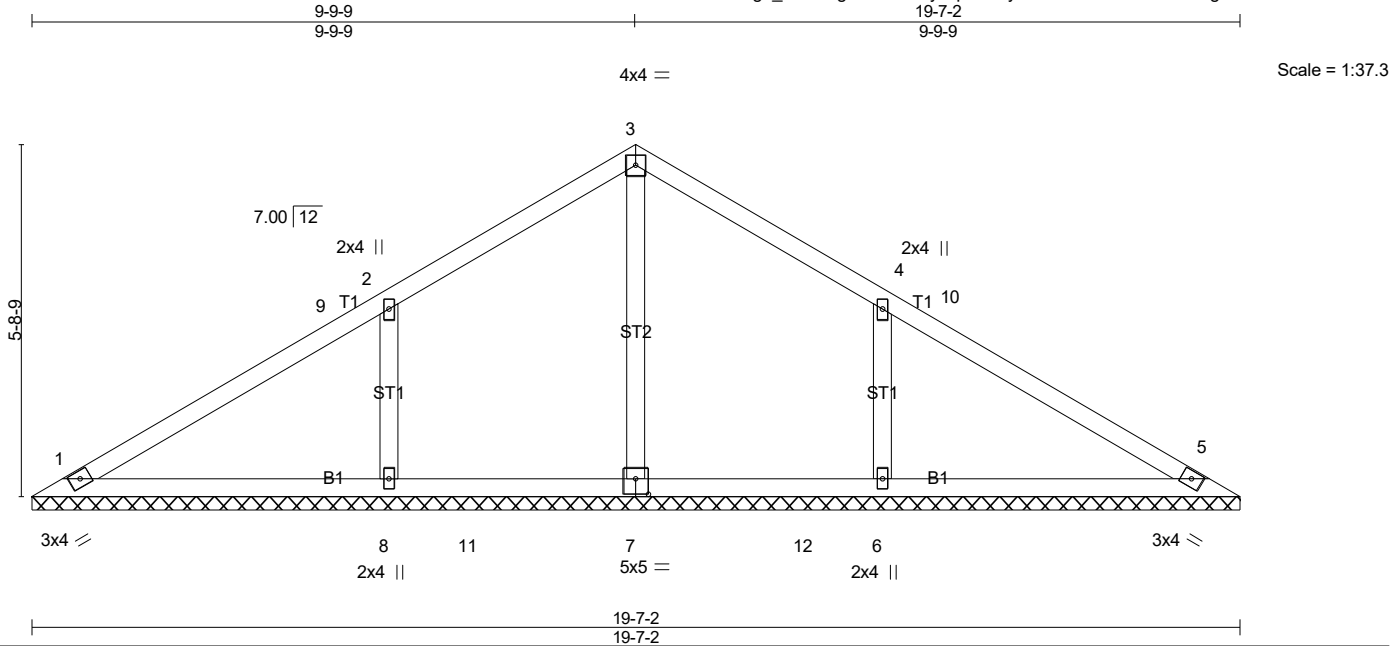


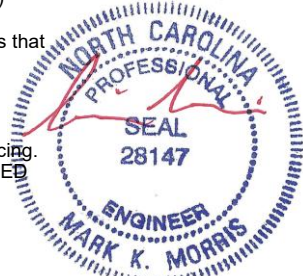
Plate Offsets (X,Y)-- [7:0-2-8,0-3-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL (roof)	20.0	2-0-0		TC	0.40	in (loc)	l/defl	MT20	244/190
Snow (Pf)	20.0	Plate Grip DOL	1.15	BC	0.36	n/a	n/a		
TCDL	10.0	Lumber DOL	1.15	WB	0.11	n/a	n/a		
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-SH		0.00	5		
BCDL	10.0	Code IRC2021/TPI2014						Weight: 77 lb	FT = 20%

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

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; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 5-4-1, Exterior(2R) 5-4-1 to 14-3-1, Exterior(2E) 14-3-1 to 19-0-11 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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, 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 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.



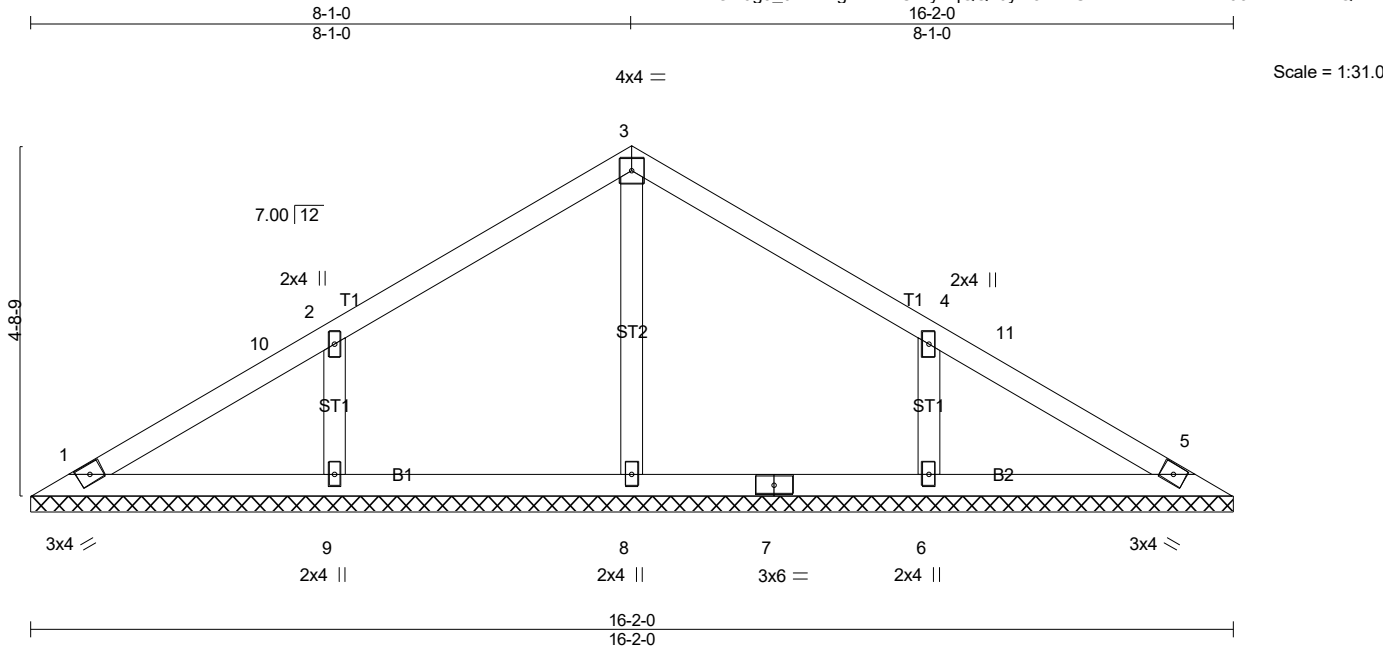
LOAD CASE(S) Standard

4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	VT02	Valley	1	1	
Job Reference (optional)					# 58536

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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.19	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 62 lb	FT = 20%

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

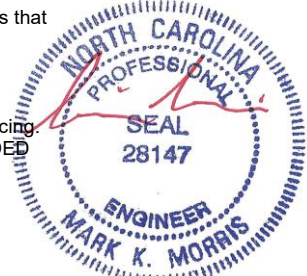
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 16-2-0.
(lb) - Max Horz 1=-97(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-122(LC 14), 6=-121(LC 15)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=278(LC 20), 9=468(LC 20), 6=468(LC 21)

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

- NOTES-** (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 10-9-15, Exterior(2E) 10-9-15 to 15-7-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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, 5 except (jt=lb) 9=122, 6=121.
 - 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

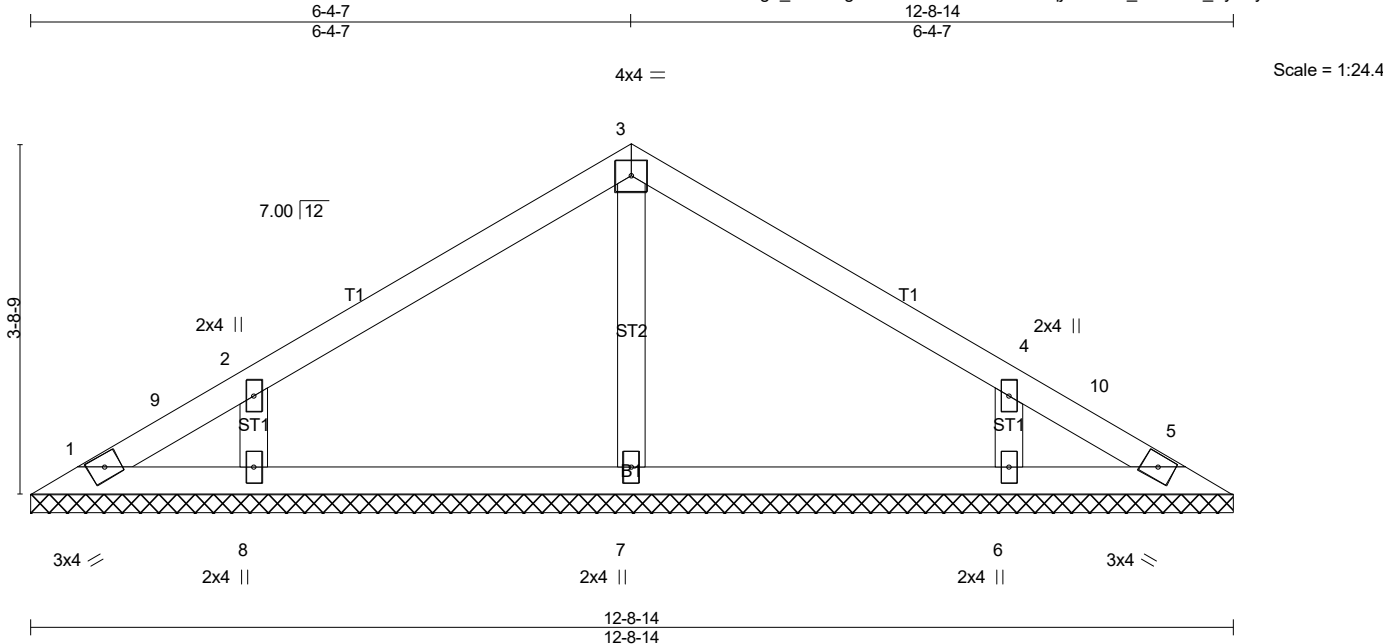


4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	VT03	GABLE	1	1	
Job Reference (optional)					# 58536

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

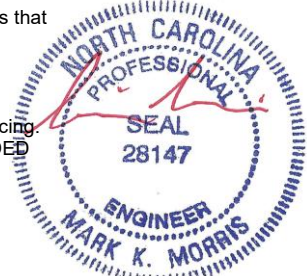
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 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; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 5-4-1, Exterior(2R) 5-4-1 to 7-4-13, Exterior(2E) 7-4-13 to 12-2-6 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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, 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

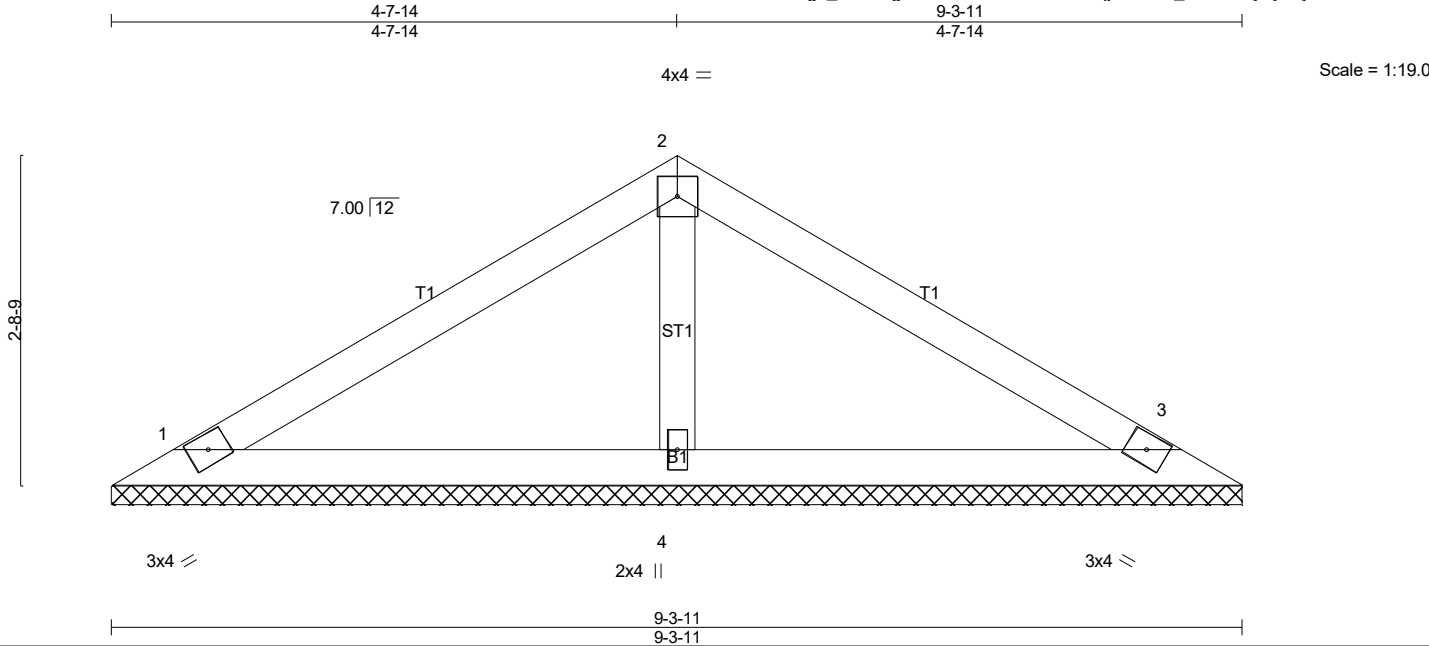


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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	VT04	Valley	1	1	
Job Reference (optional)					# 58536

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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.38	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	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: 31 lb	FT = 20%

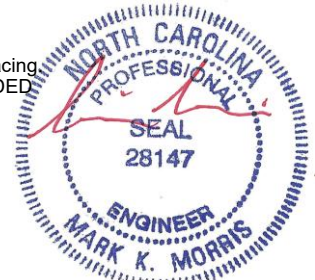
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 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
 - 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.
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 - 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



4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	VT05	Valley	1	1	
Job Reference (optional)					# 58536

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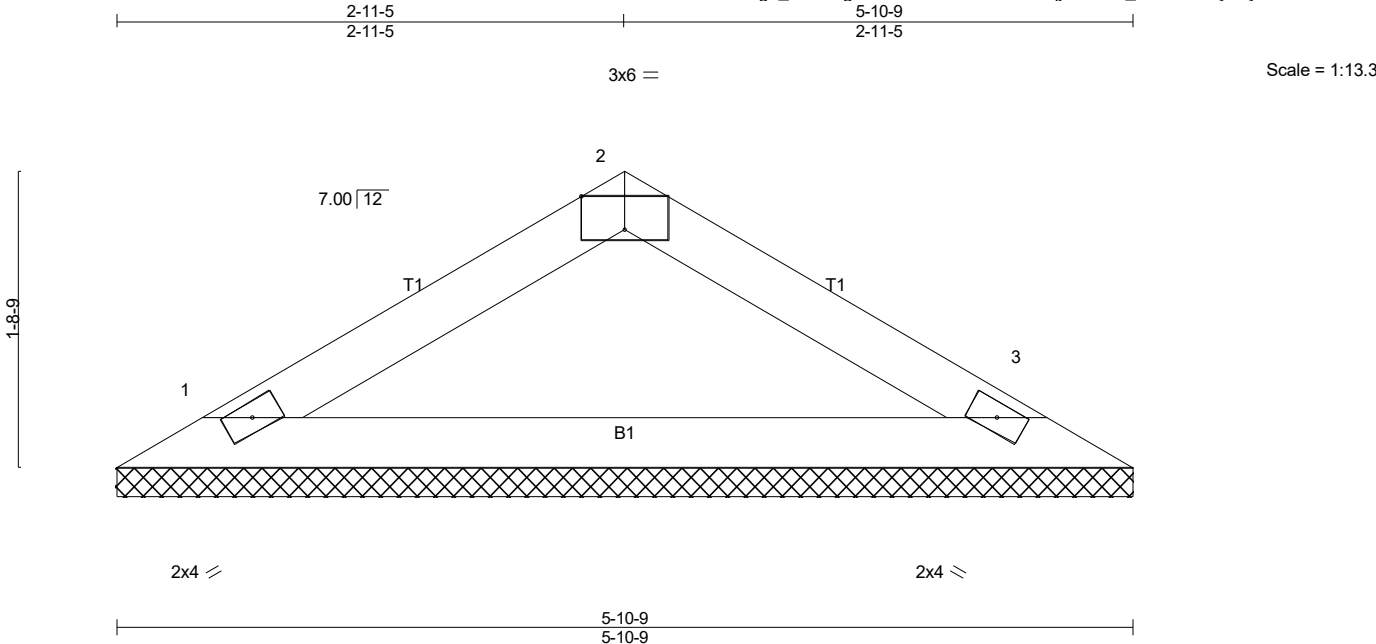


Plate Offsets (X,Y)-- [2:0-3-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	in (loc)	l/defl	MT20	GRIP
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.50	n/a	n/a		244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P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

LUMBER-		BRACING-		Structural wood sheathing directly applied or 5-10-9 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
TOP CHORD	2x4 SP No.2	TOP CHORD		
BOT CHORD	2x4 SP No.3	BOT CHORD		

REACTIONS. (lb/size) 1=192/5-10-9 (min. 0-1-8), 3=192/5-10-9 (min. 0-1-8)
Max Horz 1=31(LC 11)
Max Uplift1=-23(LC 14), 3=-23(LC 15)
Max Grav 1=221(LC 20), 3=221(LC 21)

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

- 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.
 - 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

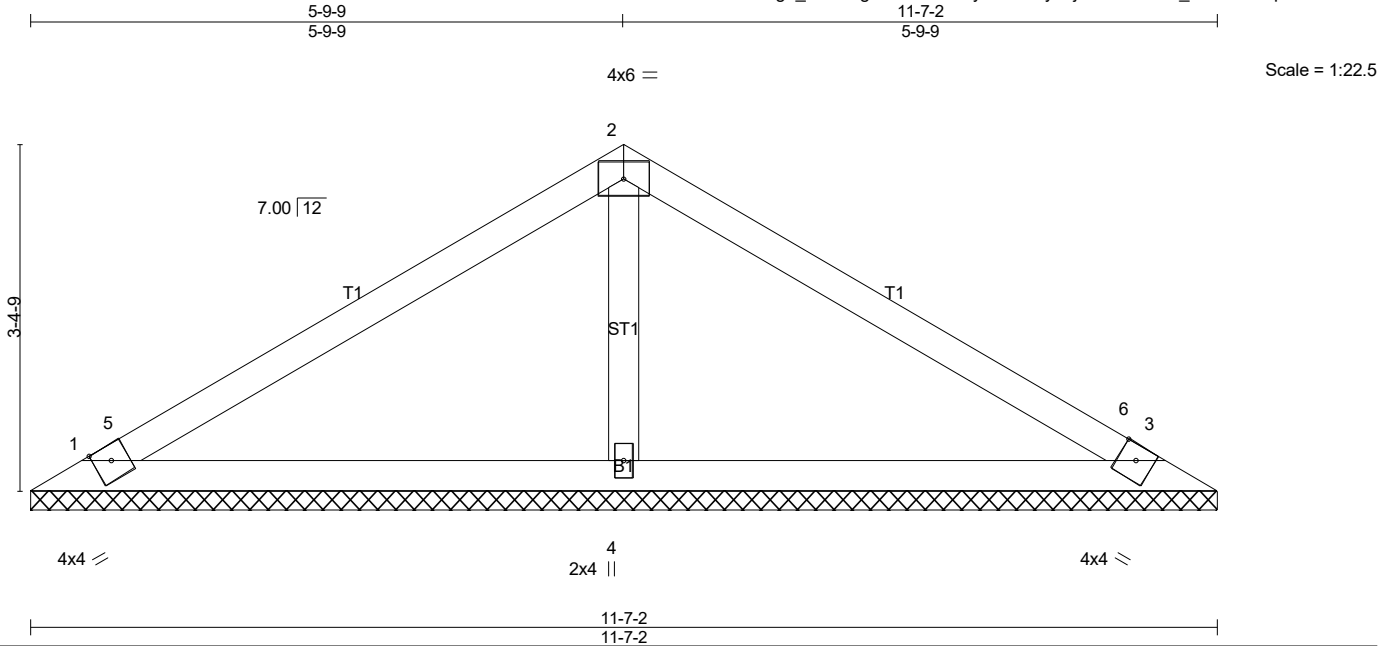


4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	VT06	Valley	1	1	
Job Reference (optional)					# 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:38 2025 Page 1
ID:kHdPkcoN9g3_0lfrDBlgKRzexCS-uuyBrk1CulyanjdQIHVJbsYh_uDYh3f5nqH7cRzQBEB



LOADING (psf)	SPACING-	CSI.	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%

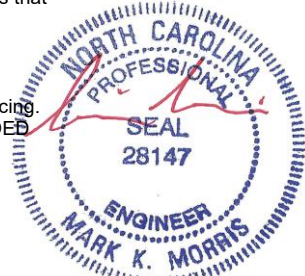
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 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; 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 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

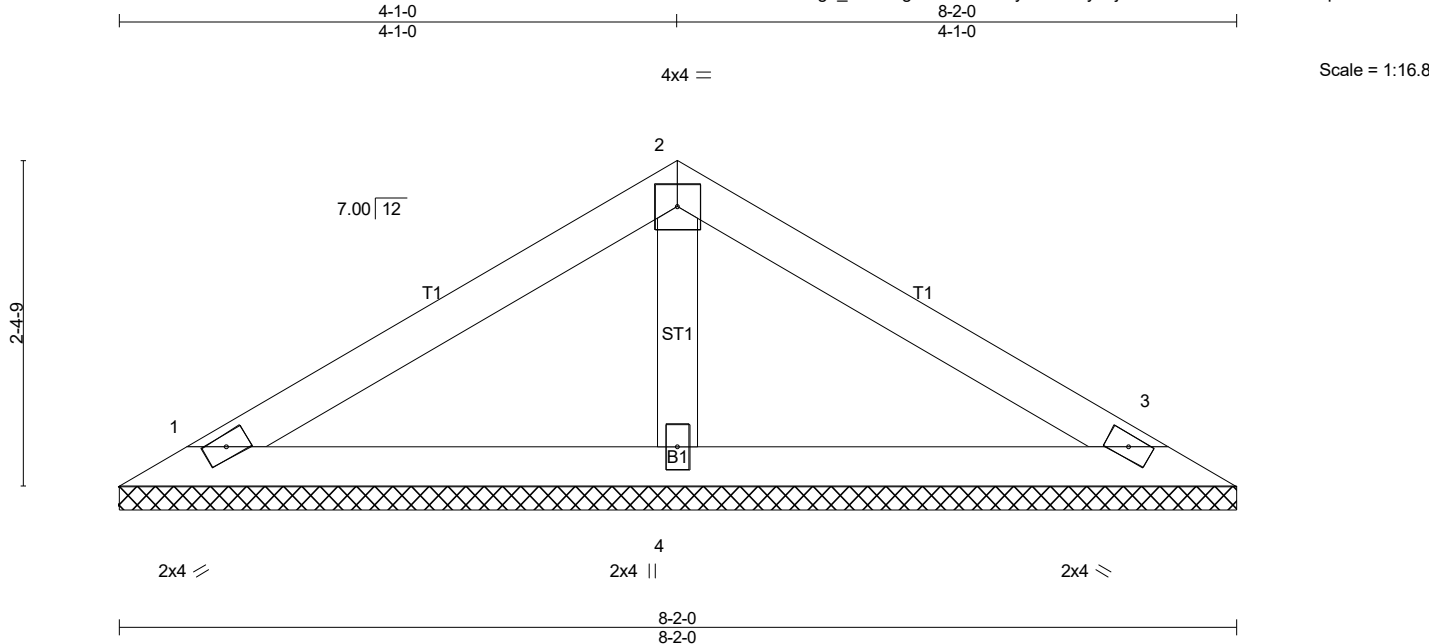


4/16/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	VT07	Valley	1	1	
Job Reference (optional)					# 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:38 2025 Page 1
ID:kHdPkcoN9g3_0lfrDBlgKRzexCS-uuyBrk1CulyanjdQiHVJbsYkDuKMh4C5nqH7cRzQBEB



LOADING (psf)	SPACING-	CS.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.21	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 27 lb	FT = 20%

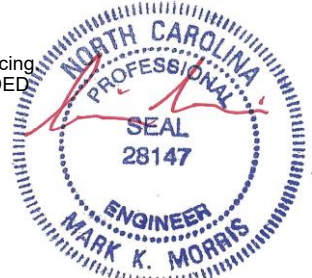
LUMBER-	BRACING-	
TOP CHORD 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 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 Uplift 1=-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)
- 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; BC DL=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, 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

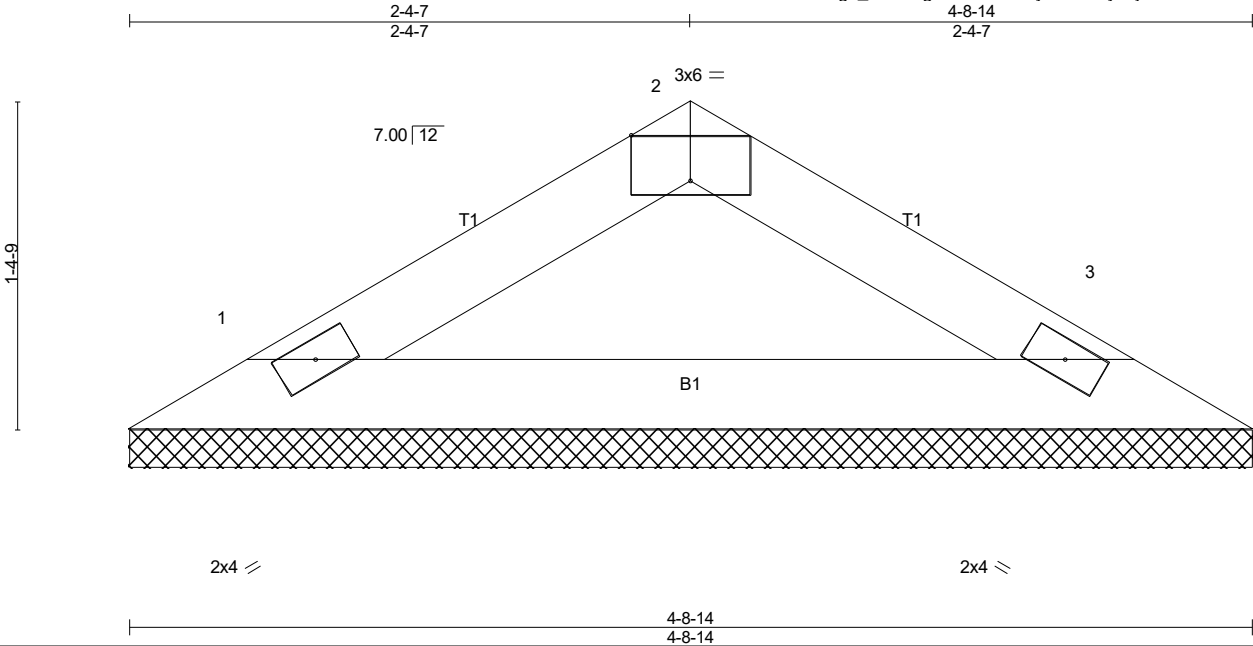


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Job	Truss	Truss Type	Qty	Ply	LOT 153 PROVIDENCE CREEK FUQUAY-VARINA, NC
25-3295-R01	VT08	Valley	1	1	
Job Reference (optional)					# 58536

Run: 85.630 s 3 Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Apr 16 10:21:38 2025 Page 1
ID:kHdPkC0N9g3_0lfrDBlgKRzexCS-uuyBrk1CulyanjdQiHVJbsYoauJMh4p5nqH7cRzQBEB



Scale = 1:9.7

Plate Offsets (X,Y)-- [2:0-3-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	in (loc)	l/defl	MT20	GRIP
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.28	n/a	n/a		244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P		0.00	3		
BCDL	10.0							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.

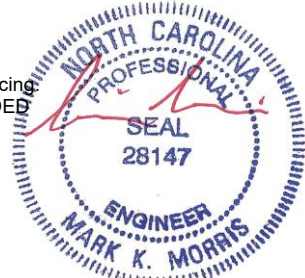
REACTIONS. (lb/size) 1=146/4-8-14 (min. 0-1-8), 3=146/4-8-14 (min. 0-1-8)
Max Horz 1=-24(LC 12)
Max Uplift1=-17(LC 14), 3=-17(LC 15)
Max Grav 1=164(LC 20), 3=164(LC 21)

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

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.
- 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.
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- 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



4/16/2025

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