

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 #: 24508

JOB: 20-5367-R01

JOB NAME: LOT 1167 CARRIAGE CIRCLE

Wind Code: 37

Wind Speed: Vult= 130mph

Exposure Category: B

Mean Roof Height (feet): 23

24 Truss Design(s)

Trusses:

J09, J10, PB01, PB02, R01, R02, R03, R04, R05, R06, R07, R08, R09, R10, R11, R13, R18, R23, R24, R25, R26, VT01, VT03, VT04



11/23/2020

Mark Morris

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

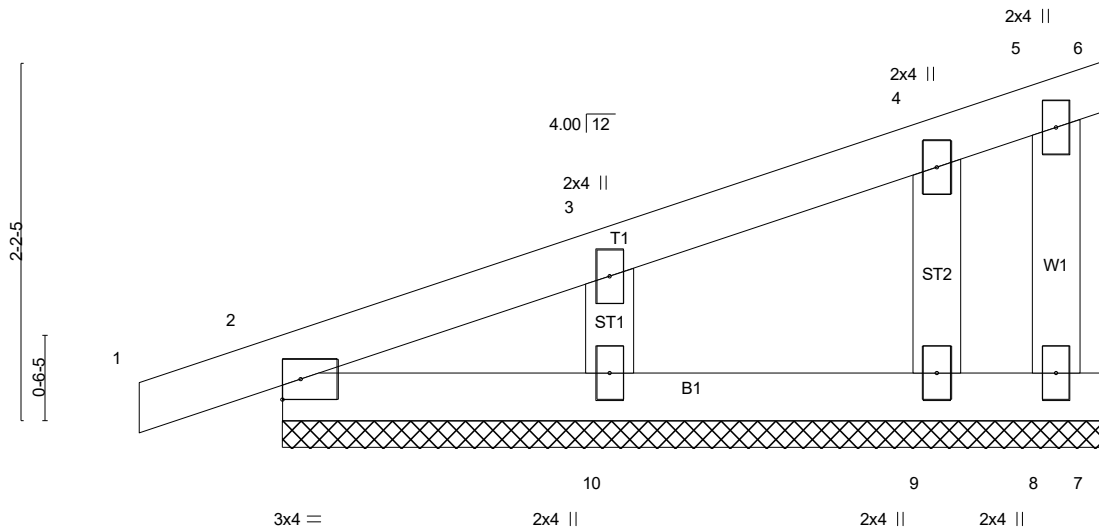
This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is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

Job 20-5367-R01	Truss J09	Truss Type GABLE	Qty 1	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	# 24508
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ID: VaeaK7vWB81xgotwpmALeyLxWJ-7x7BbUGe?zm4llkwKdTDft6hBhwBMBtRhPZ1yyFrIG
8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:21 2020 Page 1



Scale = 1:14.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) 0.00 1 n/r 180		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Vert(CT) -0.00 1 n/r 80		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 22 lb	FT = 0%

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

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 5-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

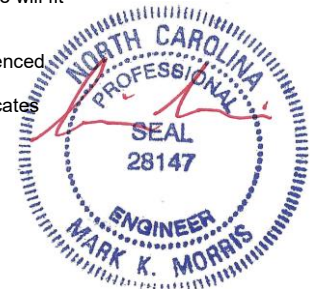
REACTIONS. All bearings 5-0-0.
(lb) - Max Horz 2=71(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 10, 9, 8
Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7, 10, 9, 8

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

NOTES- (12-13)

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 10, 9, 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard

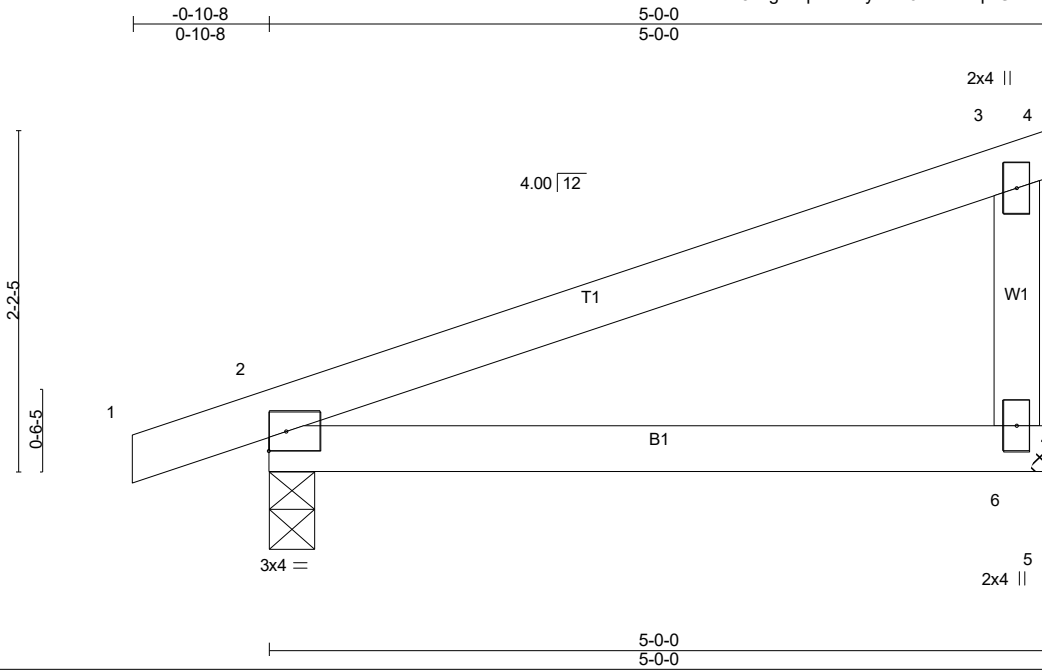


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Job 20-5367-R01	Truss J10	Truss Type Monopitch	Qty 4	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	Job Reference (optional) # 24508
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ID:VaeaK7vWB81xgotwpMaLleyLxWJ-b7hZoqHGmHuwuwJ7tK_SC4flb5CD5ef1gK86ZOyFriF
8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:22 2020 Page 1



Scale = 1:14.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.26	Vert(LL) -0.03 2-6 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.06 2-6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 19 lb	FT = 0%

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 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

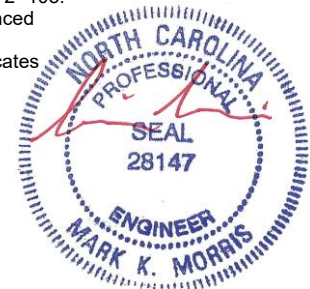
REACTIONS. (lb/size) 6=196/Mechanical, 2=253/0-3-8 (min. 0-1-8)
Max Horz 2=71(LC 10)
Max Uplift 6=-88(LC 10), 2=-105(LC 10)
Max Grav 6=262(LC 21), 2=348(LC 21)

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

NOTES- (10-11)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=105.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- 11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



11/23/2020

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Job 20-5367-R01	Truss PB01	Truss Type PIGGYBACK	Qty 1	Ply 2	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	# 24508
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ID:VaeaK7vWB81xgotwpMaLleyLxWJ-3JEx0AluXb0nX2uJR2VhIB27Vcuq5mAv_uf5nyFriE
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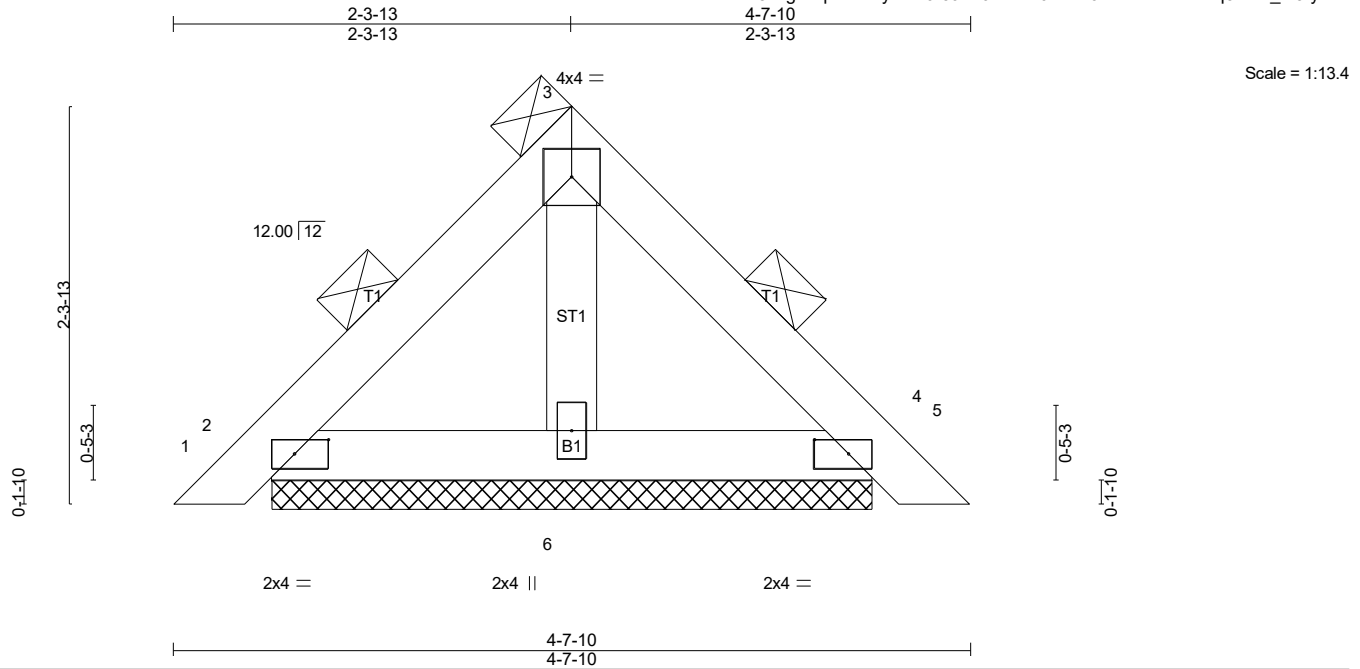


Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]		CSL		DEFL.				PLATES	GRIP
LOADING (psf)	SPACING-	3-0-0	TC	in	(loc)	l/defl	L/d	MT20	244/190
TCLL (roof) 20.0	Plate Grip DOL 1.15		0.05	Vert(LL) 0.00	4	n/r	180		
Snow (Pf) 20.0	Lumber DOL 1.15		0.04	Vert(CT) 0.00	4	n/r	80		
TCDL 10.0	Rep Stress Incr NO		0.01	Horz(CT) 0.00	4	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-P					Weight: 34 lb	FT = 0%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins
BOT CHORD 2x4 SP No.3	(Switched from sheeted: Spacing > 2-0-0).
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=162/3-6-0 (min. 0-1-8), 4=162/3-6-0 (min. 0-1-8), 6=161/3-6-0 (min. 0-1-8)
 Max Horz 2=73(LC 11)
 Max Uplift 2=-39(LC 13), 4=-47(LC 13)
 Max Grav 2=162(LC 1), 4=162(LC 1), 6=163(LC 5)

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

- NOTES-** (14-15)
- 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: 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=130mph (3-second gust) Vasd=103mph; TC DL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

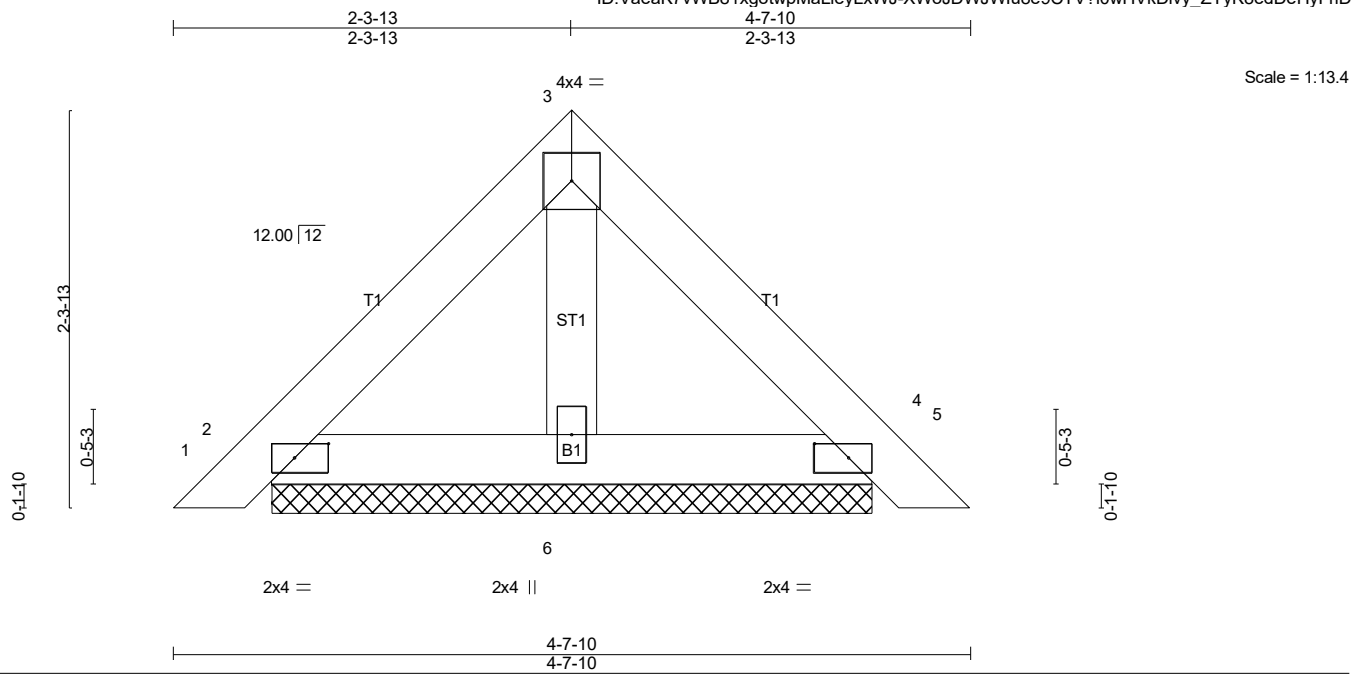


LOAD CASE(S) Standard 11/23/2020

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Job 20-5367-R01	Truss PB02	Truss Type Piggyback	Qty 8	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	# 24508
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:24 2020 Page 1
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Scale = 1:13.4

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	4	n/r	180	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	5	n/r	80	Weight: 17 lb FT = 0%		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a			
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P									
BCDL	10.0												

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 4-7-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

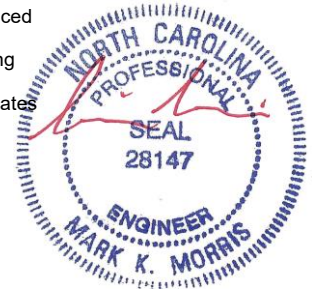
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=108/3-6-0 (min. 0-1-8), 4=108/3-6-0 (min. 0-1-8), 6=108/3-6-0 (min. 0-1-8)
 Max Horz 2=-48(LC 10)
 Max Uplift 2=-26(LC 13), 4=-31(LC 13)
 Max Grav 2=108(LC 1), 4=108(LC 1), 6=109(LC 5)

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

- NOTES-** (11-12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard



11/23/2020

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Job 20-5367-R01	Truss R01	Truss Type Roof Special Supported Gable	Qty 1	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	Job Reference (optional) # 24508
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:25 2020 Page 1
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 0-10-8 11-11-8 11-11-8 0-10-8

4x4 =

Scale = 1:67.2

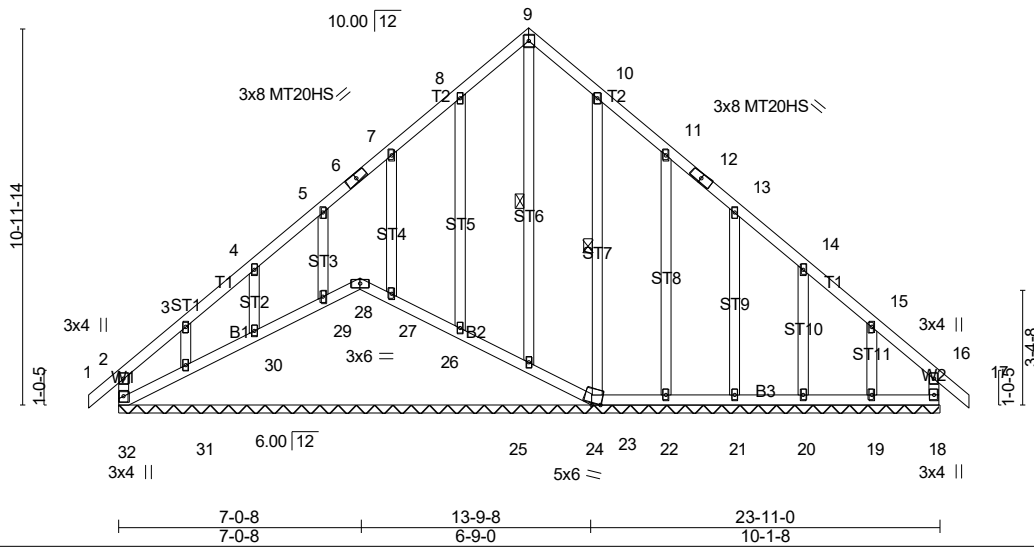


Plate Offsets (X,Y)-- [23:0-1-11,0-0-6], [24:0-0-6,0-1-11]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.20	Vert(LL) -0.00	17	n/r	180	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.11	Vert(CT) -0.00	17	n/r	80	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.14	Horz(CT) 0.01	18	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R						
BCDL 10.0	Code IRC2018/TPI2014							
							Weight: 170 lb	FT = 0%

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

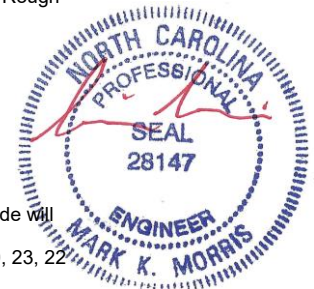
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 9-25, 10-23

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

REACTIONS. All bearings 23-11-0.
 (lb) - Max Horz 32=-274(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 26, 27, 29, 30, 23, 22, 21, 20 except 32=-211(LC 8), 18=-107(LC 9),
 28=-115(LC 11), 24=-134(LC 20), 31=-177(LC 12), 19=-163(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 18, 28, 24, 26, 27, 29, 30, 31, 20, 19 except 32=280(LC 21),
 25=320(LC 13), 23=314(LC 21), 22=262(LC 21), 21=271(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 8-9=-203/282, 9-10=-203/270
 WEBS 9-25=-298/160

- NOTES-** (16-17)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 MT20 plates unless otherwise indicated.
 - 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) 26, 27, 29, 30, 23, 22, 21, 20 except (jt=lb) 32=211, 18=107, 28=115, 24=134, 31=177, 19=163.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 28, 25, 26, 27, 29, 30, 31.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



11/23/2020

Continued on page 2. 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 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC
20-5367-R01	R01	Roof Special Supported Gable	1	1	Job Reference (optional) # 24508

8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:27 2020 Page 2
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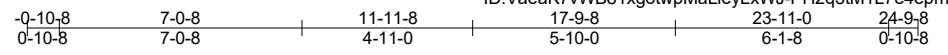
- 16) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- 17) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



11/23/2020

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.



Scale = 1:66.3

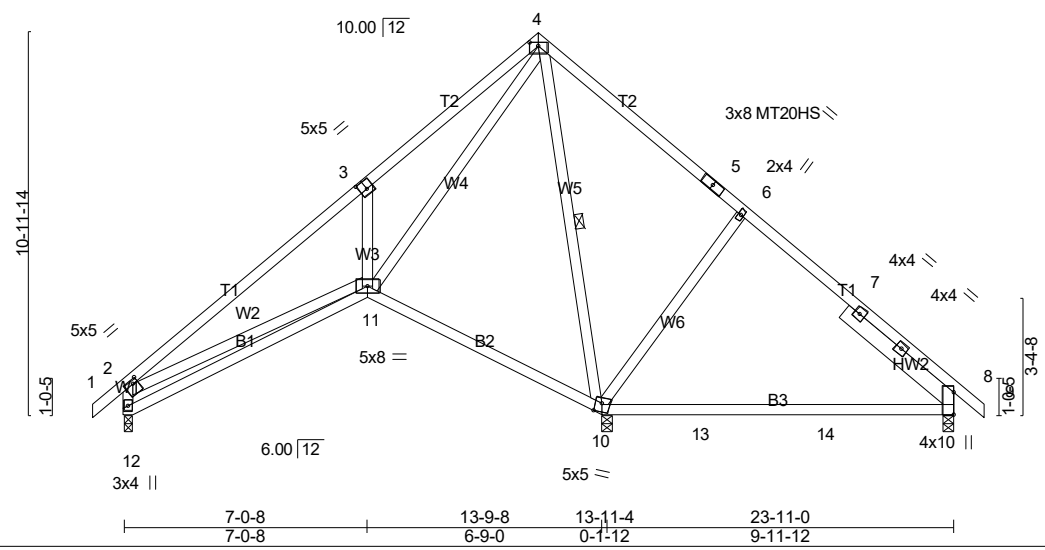


Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [3:0-2-8,0-3-0], [4:0-3-0,0-1-4], [10:0-2-4,0-3-0]					
LOADING (psf)	SPACING-	CSI.	DEFL.		PLATES
TCLL (roof) 20.0	2-0-0	TC 0.77	in (loc) l/defl L/d		GRIP
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.87	Vert(LL) -0.41 8-10 >298 240		MT20 244/190
TCDL 10.0	Lumber DOL 1.15	WB 0.47	Vert(CT) -0.65 8-10 >190 180		MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.05 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014				Weight: 153 lb FT = 0%

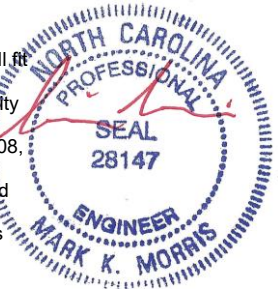
LUMBER-		BRACING-
TOP CHORD 2x4 SP No.2		TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* B3: 2x4 SP No.1		BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3		WEBS 1 Row at midpt 4-10
SLIDER Right 2x6 SP No.2 -, 4-1-11		

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

REACTIONS. (lb/size) 12=483/0-3-8 (min. 0-1-8), 8=305/0-3-8 (min. 0-1-8), 10=1227/0-3-8 (min. 0-1-8)
 Max Horz 12=-264(LC 10)
 Max Uplift 12=-108(LC 13), 8=-203(LC 8), 10=-207(LC 12)
 Max Grav 12=483(LC 1), 8=450(LC 33), 10=1227(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-637/59, 3-4=-651/287, 4-5=-55/351, 2-12=-560/215
 BOT CHORD 11-12=-338/560
 WEBS 3-11=-413/319, 4-11=-306/953, 4-10=-841/132, 6-10=-392/250, 2-11=-91/266

- NOTES-** (11-12)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) 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) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=408, 8=203, 10=207.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.



11/23/2020

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

Job 20-5367-R01	Truss R03	Truss Type ROOF SPECIAL	Qty 3	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	# 24508
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:29 2020 Page 1

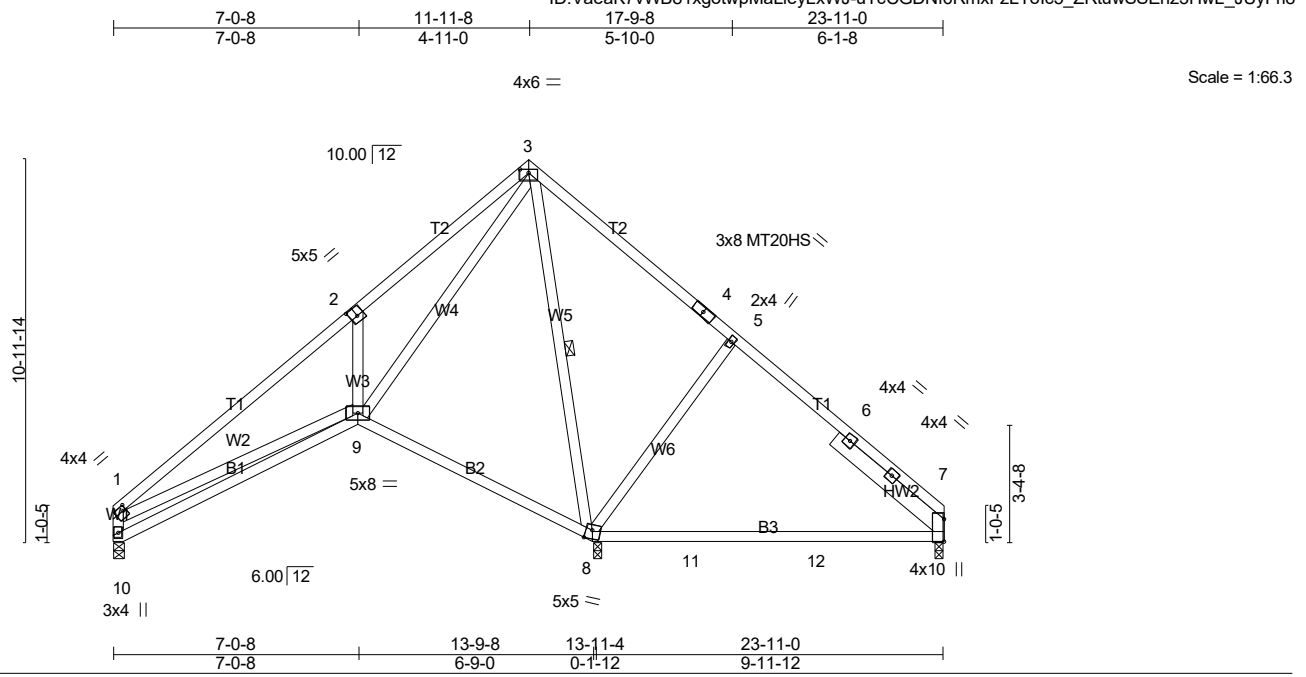


Plate Offsets (X,Y)-- [1:0-1-0,0-1-12], [2:0-2-8,0-3-0], [3:0-3-0,0-1-4], [8:0-2-4,0-3-0]																																																						
<table border="1"> <thead> <tr> <th>LOADING (psf)</th> <th>SPACING-</th> <th>CSI.</th> <th>DEFL.</th> <th>in (loc)</th> <th>l/defl</th> <th>L/d</th> <th>PLATES</th> <th>GRIP</th> </tr> </thead> <tbody> <tr> <td>TCLL (roof) 20.0</td> <td>2-0-0</td> <td>TC 0.80</td> <td>Vert(LL) -0.41</td> <td>7-8</td> <td>>298</td> <td>240</td> <td>MT20</td> <td>244/190</td> </tr> <tr> <td>Snow (Pf) 20.0</td> <td>Plate Grip DOL 1.15</td> <td>BC 0.87</td> <td>Vert(CT) -0.65</td> <td>7-8</td> <td>>189</td> <td>180</td> <td>MT20HS</td> <td>187/143</td> </tr> <tr> <td>TCDL 10.0</td> <td>Lumber DOL 1.15</td> <td>WB 0.48</td> <td>Horz(CT) 0.05</td> <td>7</td> <td>n/a</td> <td>n/a</td> <td></td> <td></td> </tr> <tr> <td>BCLL 0.0 *</td> <td>Rep Stress Incr YES</td> <td>Matrix-SH</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>BCDL 10.0</td> <td>Code IRC2018/TPI2014</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Weight: 150 lb FT = 0%</td> </tr> </tbody> </table>	LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	TCLL (roof) 20.0	2-0-0	TC 0.80	Vert(LL) -0.41	7-8	>298	240	MT20	244/190	Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.87	Vert(CT) -0.65	7-8	>189	180	MT20HS	187/143	TCDL 10.0	Lumber DOL 1.15	WB 0.48	Horz(CT) 0.05	7	n/a	n/a			BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH							BCDL 10.0	Code IRC2018/TPI2014							Weight: 150 lb FT = 0%
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP																																														
TCLL (roof) 20.0	2-0-0	TC 0.80	Vert(LL) -0.41	7-8	>298	240	MT20	244/190																																														
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BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH																																																				
BCDL 10.0	Code IRC2018/TPI2014							Weight: 150 lb FT = 0%																																														

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B3: 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Right 2x6 SP No.2 -, 4-1-11

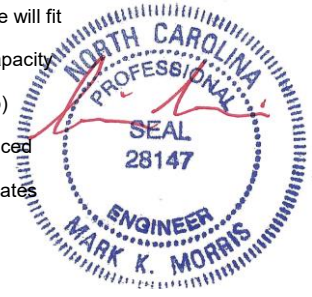
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-8

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

REACTIONS. (lb/size) 10=414/0-3-8 (min. 0-1-8), 7=244/0-3-8 (min. 0-1-8), 8=1244/0-3-8 (min. 0-1-8)
Max Horz 10=-257(LC 10)
Max Uplift 10=-100(LC 13), 7=-200(LC 8), 8=-221(LC 12)
Max Grav 10=431(LC 20), 7=404(LC 32), 8=1244(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-629/43, 2-3=-653/281, 3-4=-54/362, 1-10=-455/149
BOT CHORD 9-10=-297/471
WEBS 2-9=-437/336, 3-9=-307/964, 3-8=-852/142, 5-8=-395/252, 1-9=-38/281

- NOTES-** (10-11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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
 - All plates are MT20 plates unless otherwise indicated.
 - 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.
 - Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 7=200, 8=221.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.



LOAD CASE(S) Standard

11/23/2020

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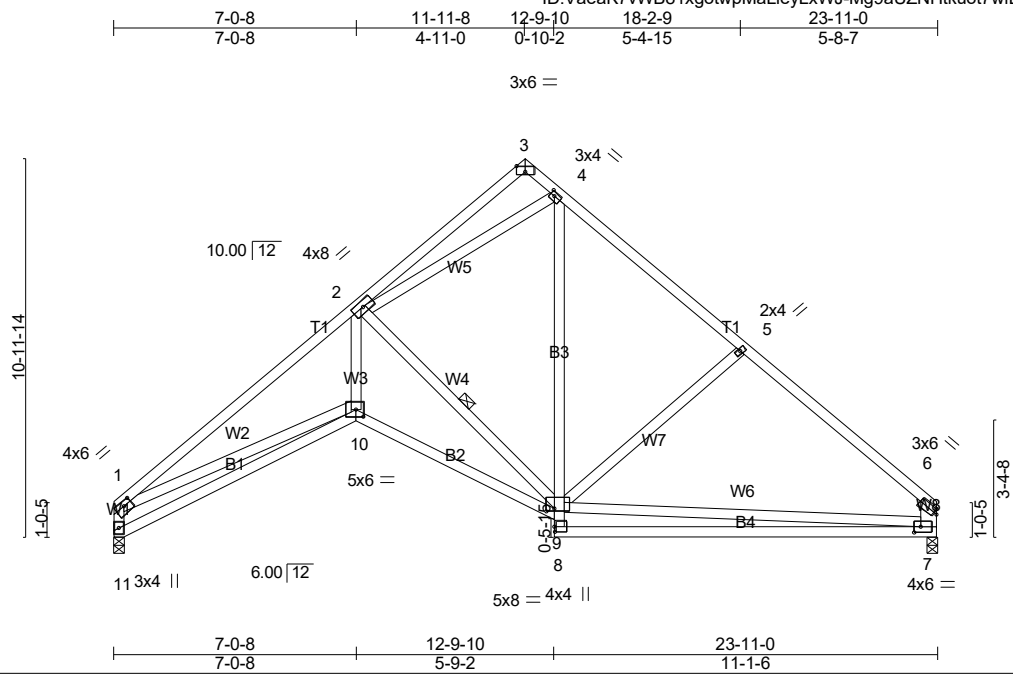


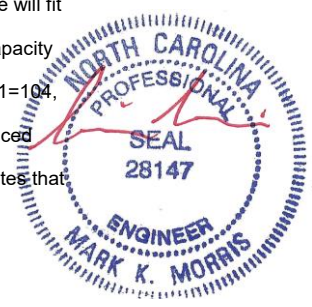
Plate Offsets (X,Y)-- [1:0-2-12,0-1-8], [3:0-3-0,Edge], [4:0-1-8,0-1-8], [7:0-2-4,0-2-0], [8:0-1-12,0-0-4], [9:0-2-12,0-1-0], [10:0-2-8,0-2-8]					
LOADING (psf)	SPACING-	CSI.	DEFL.		PLATES GRIP
TCLL (roof) 20.0	2-0-0	TC 0.75	in (loc) l/defl L/d		MT20 244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.95	Vert(LL) -0.40 7-8 >701 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.61	Vert(CT) -0.78 7-8 >363 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.17 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014				Weight: 164 lb FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* B3: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 7-8.
WEBS 2x4 SP No.3 *Except* W8: 2x6 SP No.2	WEBS 1 Row at midpt 2-9
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 11=942/0-3-8 (min. 0-1-8), 7=942/0-3-8 (min. 0-1-8)
 Max Horz 11=255(LC 9)
 Max Uplift 11=104(LC 12), 7=104(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2108/308, 4-5=-874/209, 5-6=-1106/188, 1-11=-992/249, 6-7=-840/161
 BOT CHORD 10-11=-310/519, 9-10=-303/1836, 4-9=-124/508, 7-8=0/334
 WEBS 2-10=-189/1586, 2-9=-1444/377, 2-4=-685/266, 1-10=-44/1357, 7-9=-121/497

- NOTES-** (9-10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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.
 - Bearing at joint(s) 11 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) 11=104, 7=104.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.



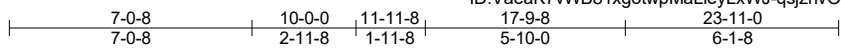
LOAD CASE(S) Standard

11/23/2020

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Job 20-5367-R01	Truss R05	Truss Type Roof Special	Qty 1	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	# 24508
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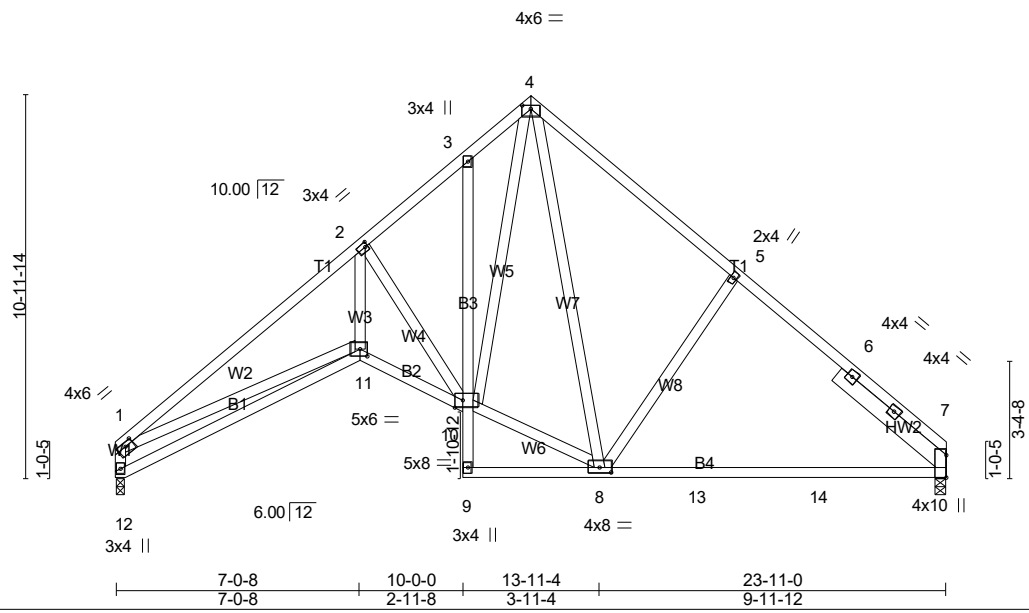


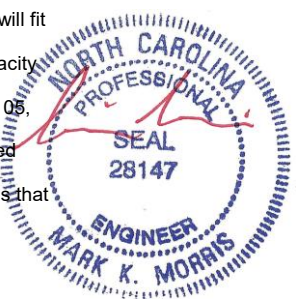
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.78	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.28 7-8 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.92	Vert(CT) -0.45 7-8 >635 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.15 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 176 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
B3: 2x4 SP No.3, B4: 2x4 SP No.1	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
WEBS 2x4 SP No.3	
SLIDER Right 2x6 SP No.2 -, 4-1-11	

REACTIONS. (lb/size) 7=951/0-3-8 (min. 0-1-8), 12=951/0-3-8 (min. 0-1-8)
 Max Horz 12=-255(LC 10)
 Max Uplift 7=-105(LC 13), 12=-105(LC 12)
 Max Grav 7=976(LC 20), 12=951(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2165/306, 2-3=-1093/247, 3-4=-986/272, 4-5=-922/226, 5-6=-981/178, 6-7=-1115/141, 1-12=-1037/249
 BOT CHORD 11-12=-298/524, 10-11=-287/1929, 8-13=-51/787, 13-14=-51/787, 7-14=-51/787
 WEBS 2-11=-189/1618, 2-10=-1574/406, 8-10=0/772, 4-10=-221/864, 4-8=-232/332, 5-8=-330/255, 1-11=-40/1366

- NOTES-** (9-10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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.
 - Bearing at joint(s) 12 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) 7=105, 12=105.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.



LOAD CASE(S) Standard

11/23/2020

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Job 20-5367-R01	Truss R06	Truss Type Common	Qty 1	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	# 24508
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:32 2020 Page 1

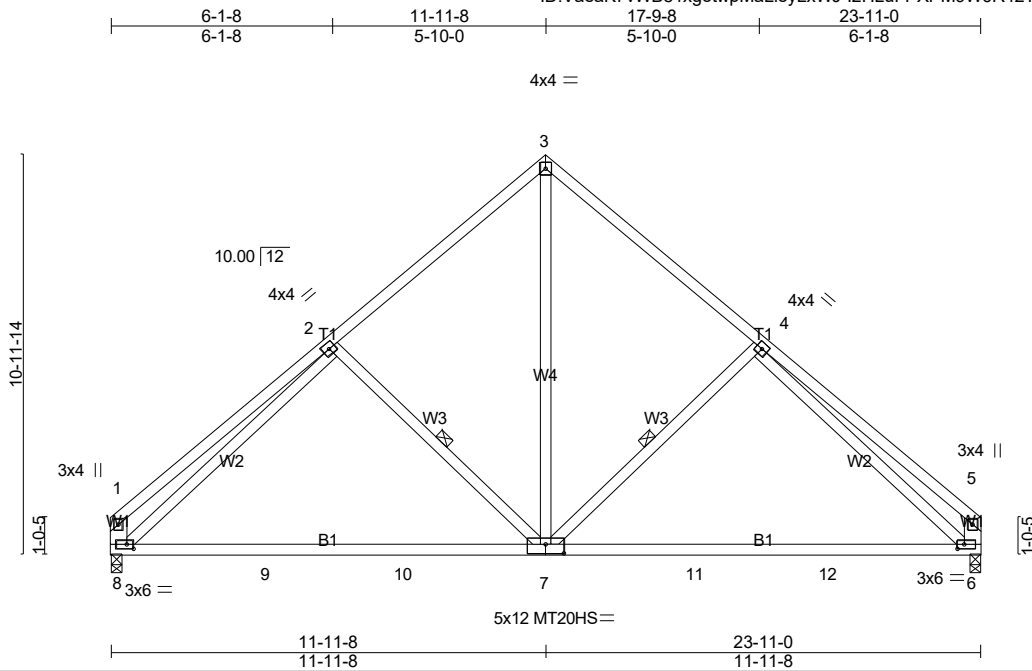


Plate Offsets (X,Y)-- [6:0-2-4,0-1-8], [7:0-6-0,0-3-0], [8:0-2-4,0-1-8]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.44 6-7 >639 240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.85	Vert(CT) -0.73 6-7 >388 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014				Weight: 148 lb FT = 0%

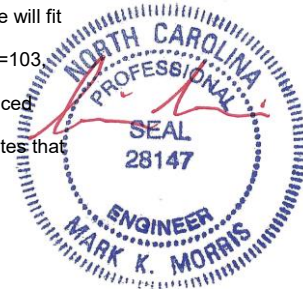
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 9-6-15 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 4-7, 2-7
W1: 2x6 SP No.2	

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

REACTIONS. (lb/size) 8=938/0-3-8 (min. 0-1-8), 6=938/0-3-8 (min. 0-1-8)
 Max Horz 8=-254(LC 8)
 Max Uplift 8=-103(LC 12), 6=-103(LC 13)
 Max Grav 8=1007(LC 19), 6=1007(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-591/122, 2-3=-927/207, 3-4=-927/207, 4-5=-590/122, 1-8=-477/129, 5-6=-477/129
 BOT CHORD 8-9=-166/911, 9-10=-166/911, 7-10=-166/911, 7-11=-58/789, 11-12=-58/789, 6-12=-58/789
 WEBS 3-7=-124/754, 4-7=-297/260, 2-7=-297/260, 2-8=-682/121, 4-6=-682/120

- NOTES-** (9-10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - All plates are MT20 plates unless otherwise indicated.
 - 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) except (jt=lb) 8=103, 6=103.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.



11/23/2020

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Job 20-5367-R01	Truss R07	Truss Type GABLE	Qty 1	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	Job Reference (optional) # 24508
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:33 2020 Page 1
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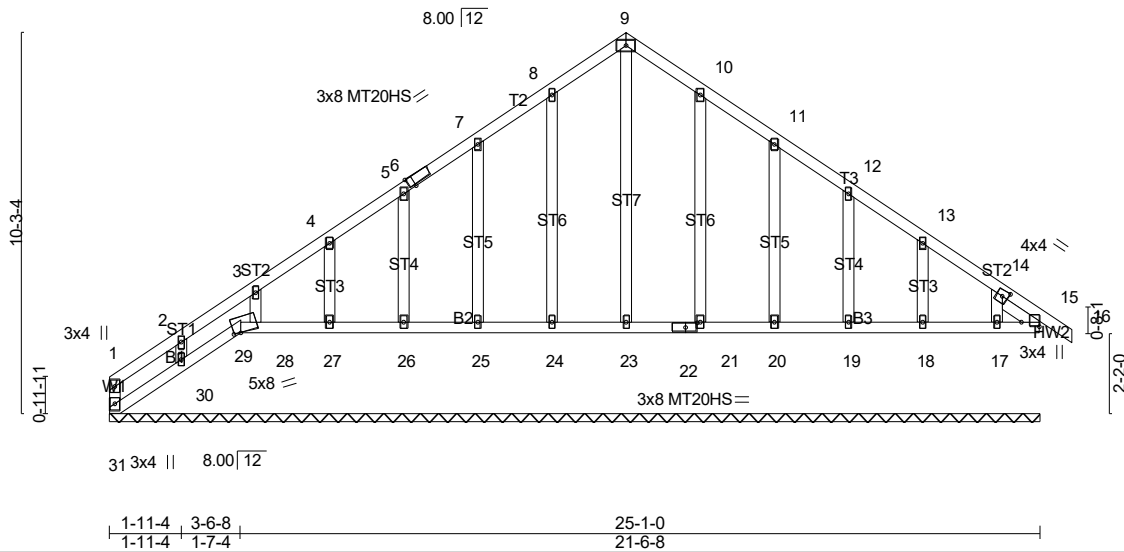


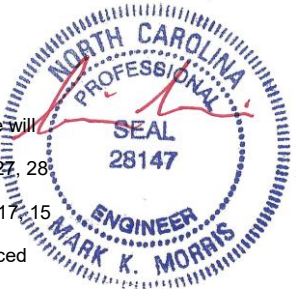
Plate Offsets (X,Y)-- [6:0-2-1,Edge], [14:0-1-14,0-2-0], [15:Edge,0-5-12], [22:0-3-12,0-1-8], [28:0-1-11,0-0-8], [29:0-0-8,0-1-11], [29:0-2-4,0-0-3]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.08	Vert(LL) -0.00 15 n/r 180	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.26	Vert(CT) -0.00 16 n/r 80		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 15 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 153 lb	FT = 0%

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	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
OTHERS 2x4 SP No.3	
SLIDER Right 2x4 SP No.3 -, 1-2-10	

REACTIONS. All bearings 25-1-0.
 (lb) - Max Horz 31=-221(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 29, 24, 25, 26, 27, 28, 21, 20, 19, 18, 17 except 31=-136(LC 8), 15=-110(LC 9), 30=-145(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 31, 29, 26, 27, 28, 19, 18, 17, 15, 30 except 23=312(LC 22), 24=262(LC 20), 25=264(LC 20), 21=265(LC 21), 20=262(LC 21)

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

- NOTES-** (15-16)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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 MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 24, 25, 26, 27, 28, 21, 20, 19, 18, 17 except (jt=lb) 31=136, 15=110, 30=145.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 29, 23, 24, 25, 26, 27, 28, 21, 20, 19, 18, 17, 15, 30.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



11/23/2020

Continued on page 2 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 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC
20-5367-R01	R07	GABLE	1	1	Job Reference (optional) # 24508

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

LOAD CASE(S) Standard



11/23/2020

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 20-5367-R01	Truss R08	Truss Type GABLE	Qty 1	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	# 24508
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:35 2020 Page 1



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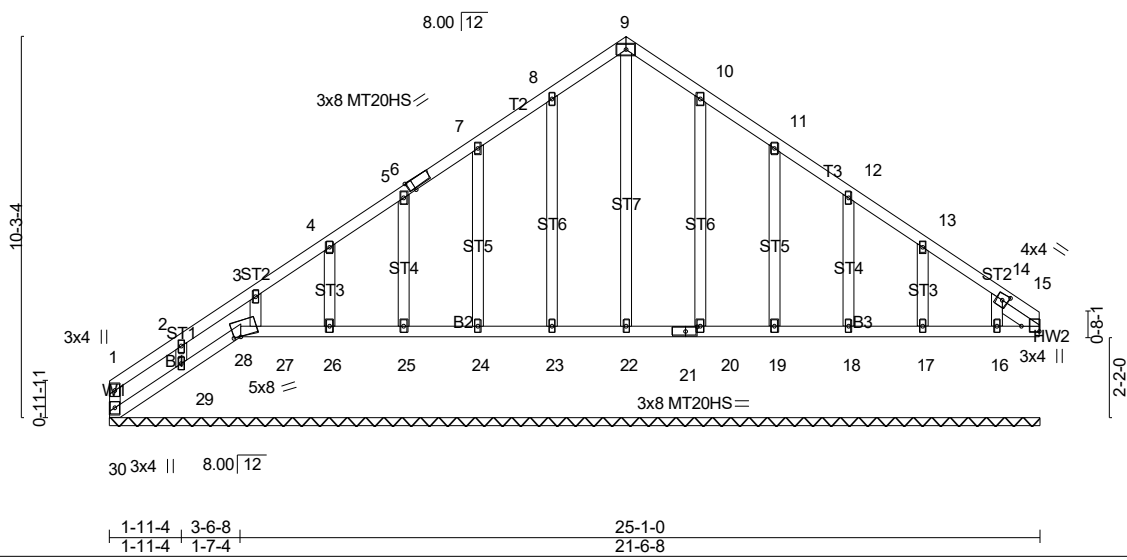


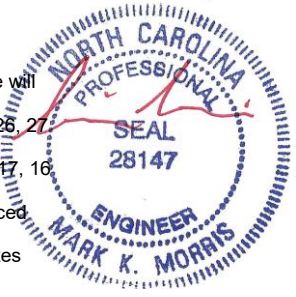
Plate Offsets (X,Y)-- [6:0-2-1,Edge], [14:0-1-14,0-2-0], [15:Edge,0-5-12], [21:0-3-12,0-1-8], [27:0-1-11,0-0-8], [28:0-2-4,0-0-3], [28:0-0-8,0-1-11]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.08	Vert(LL) n/a - n/a 999	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.25	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 15 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014				Weight: 152 lb FT = 0%

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	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
OTHERS 2x4 SP No.3	
SLIDER Right 2x4 SP No.3 -, 1-2-10	

REACTIONS. All bearings 25-1-0.
 (lb) - Max Horz 30=223(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 28, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16 except 30=-133(LC 8), 15=-110(LC 9), 29=-146(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 30, 15, 28, 25, 26, 27, 18, 17, 16, 29 except 22=312(LC 25), 23=262(LC 19), 24=264(LC 19), 20=265(LC 20), 19=262(LC 20)

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

- NOTES-** (14-15)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16 except (jt=lb) 30=133, 15=110, 29=146.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 15, 28, 22, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 29.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

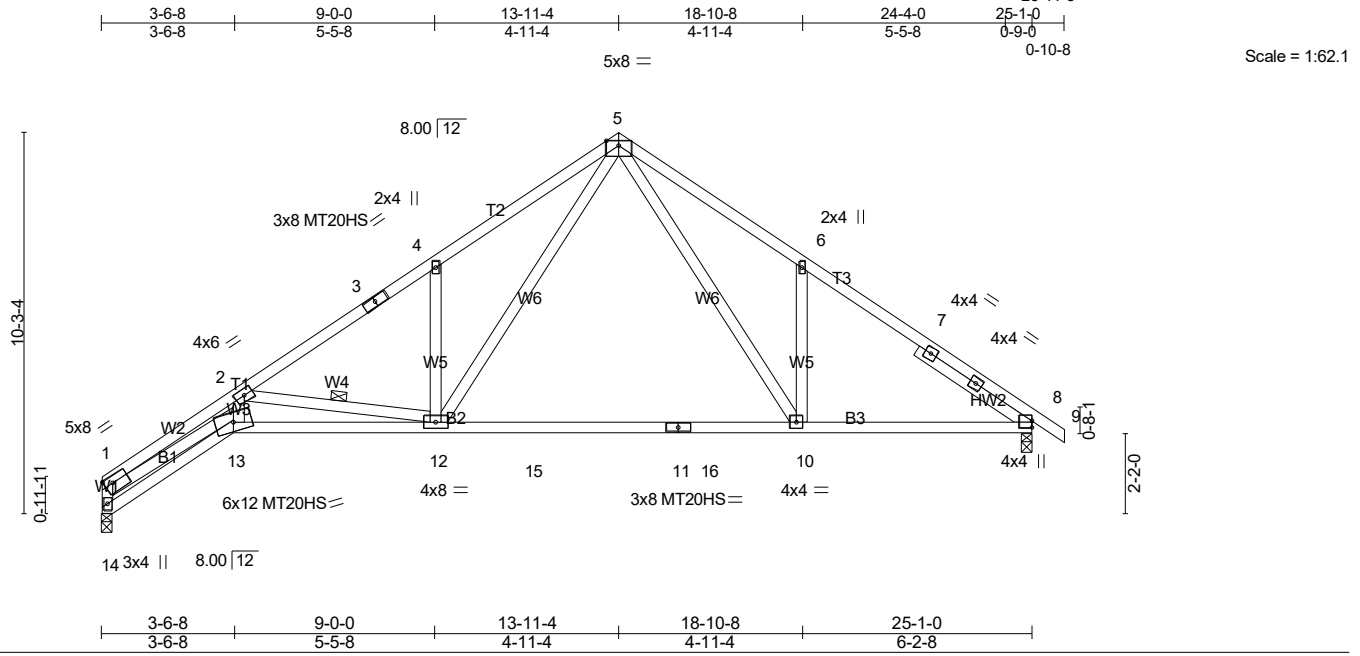


11/23/2020

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 20-5367-R01	Truss R09	Truss Type ROOF SPECIAL	Qty 3	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	Job Reference (optional) # 24508
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	2.0-0	TC	0.46	Vert(LL)	-0.45 10-12 >661 240	MT20	244/190		
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.72 10-12 >416 180	MT20HS	187/143		
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.27 8 n/a n/a				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 146 lb FT = 0%
BCDL	10.0										

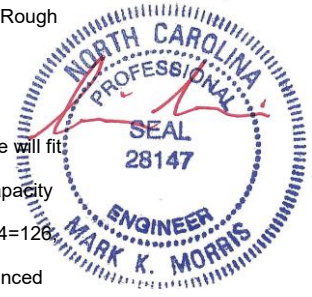
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-6-13 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 *Except* B2: 2x4 SP SS, B3: 2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-3-12 oc bracing: 12-13.
WEBS	2x4 SP No.3 *Except* W2: 2x4 SP No.2	WEBS	1 Row at midpt 2-12
SLIDER	Right 2x4 SP No.3 -, 3-7-14		

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

REACTIONS. (lb/size) 14=997/0-3-8 (min. 0-1-8), 8=1051/0-3-8 (min. 0-1-8)
 Max Horz 14=-221(LC 10)
 Max Uplift 14=-126(LC 12), 8=-128(LC 13)
 Max Grav 14=1011(LC 20), 8=1062(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-14=-1151/264, 1-2=-4473/932, 2-3=-1832/247, 3-4=-1714/263, 4-5=-1918/426,
 5-6=-1498/310, 6-7=-1459/176, 7-8=-1550/155
 BOT CHORD 13-14=-261/421, 12-13=-838/3557, 12-15=-62/910, 11-15=-62/910, 11-16=-62/910,
 10-16=-62/910, 8-10=-78/1199
 WEBS 1-13=-753/3724, 2-13=-377/1626, 2-12=-1983/615, 4-12=-395/244, 5-12=-318/1297,
 5-10=-216/748, 6-10=-320/259

- NOTES-** (11-12)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=126, 8=128.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Continued on Page 2 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 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC
20-5367-R01	R09	ROOF SPECIAL	3	1	Job Reference (optional) # 24508

8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:38 2020 Page 2
 ID:VaeaK7vWB81xgotwpaLleyLxWJ-7Cec9lUI?CvtqMXCphGCrSJvWYXgrhnOMq0y7TyFri?

- 11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard



11/23/2020

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 20-5367-R01	Truss R10	Truss Type ROOF SPECIAL	Qty 1	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	# 24508
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:38 2020 Page 1
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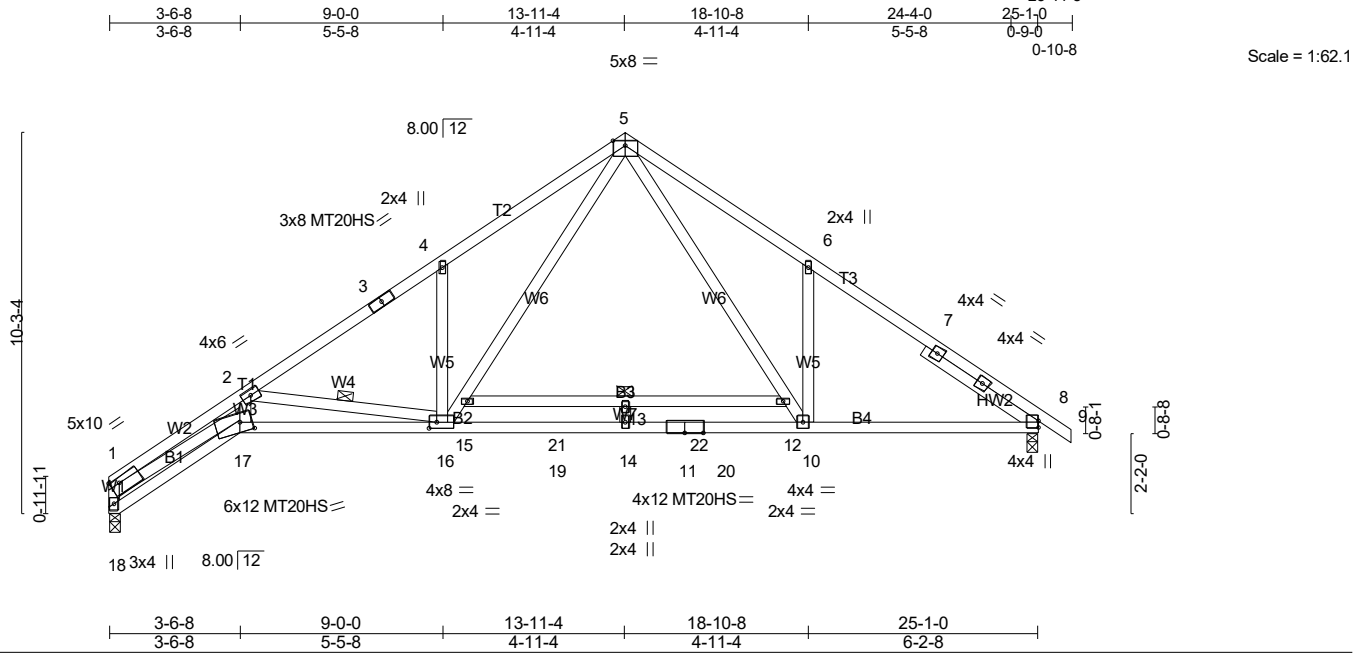


Plate Offsets (X,Y)-- [1:Edge,0-1-12], [16:0-2-8,0-2-0], [17:0-4-0,0-3-4]					
LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.57	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 1.00	Vert(LL) -0.53 13 >560 240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.92	Vert(CT) -0.90 13 >332 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.31 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 159 lb	FT = 0%

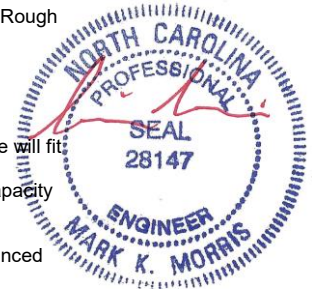
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-3-10 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* B2: 2x4 SP SS, B4: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 4-7-0 oc bracing: 12-15
WEBS 2x4 SP No.3 *Except* W2: 2x4 SP No.2	WEBS 1 Row at midpt 2-16
SLIDER Right 2x4 SP No.3 -, 3-7-14	

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

REACTIONS. (lb/size) 18=1076/0-3-8 (min. 0-1-8), 8=1149/0-3-8 (min. 0-1-8)
 Max Horz 18=205(LC 9)
 Max Uplift 18=-87(LC 12), 8=-79(LC 13)
 Max Grav 18=1149(LC 20), 8=1233(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-18=-1291/225, 1-2=-5072/763, 2-3=-2173/149, 3-4=-2055/165, 4-5=-2261/328,
 5-6=-1788/226, 6-7=-1760/89, 7-8=-1852/68
 BOT CHORD 17-18=-245/437, 16-17=-706/4023, 16-19=0/1059, 14-19=0/1059, 11-14=0/1059,
 11-20=0/1059, 10-20=0/1059, 8-10=-8/1442
 WEBS 1-17=-605/4239, 2-17=-326/1811, 2-16=-2166/565, 4-16=-398/243, 15-16=-292/1441,
 5-15=-247/1538, 5-12=-168/909, 10-12=-210/809, 6-10=-306/266

- NOTES-** (11-12)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 6.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



11/23/2020

Continued on Page 2 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 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC
20-5367-R01	R10	ROOF SPECIAL	1	1	Job Reference (optional) # 24508

8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:39 2020 Page 2
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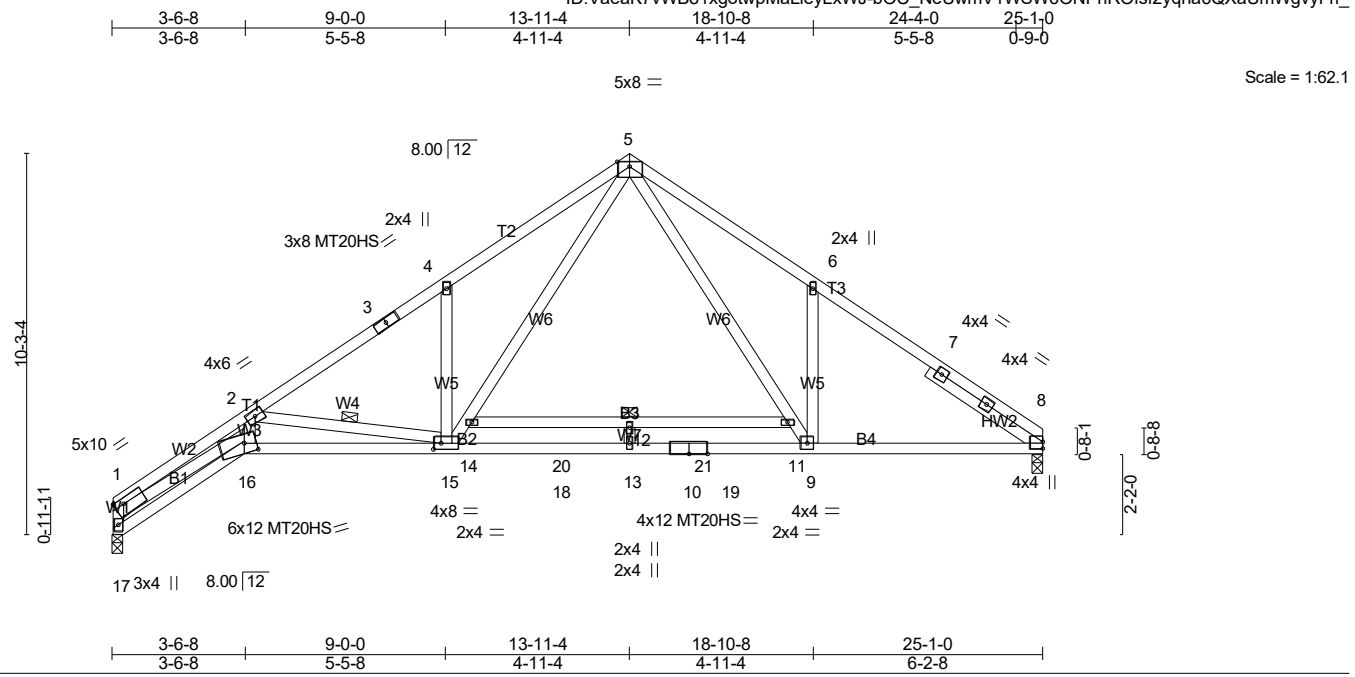
- 11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



11/23/2020

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.



LOADING (psf)		SPACING		CSI		DEFL.		PLATES		GRIP			
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.57	Vert(LL)	-0.53	in (loc)	12	l/defl	>560	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.90		12	>332	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.31		8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH									
BCDL	10.0												Weight: 158 lb FT = 0%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 B2: 2x4 SP SS, B4: 2x4 SP No.1
 WEBS 2x4 SP No.3 *Except*
 W2: 2x4 SP No.2
 SLIDER Right 2x4 SP No.3 -, 3-7-14

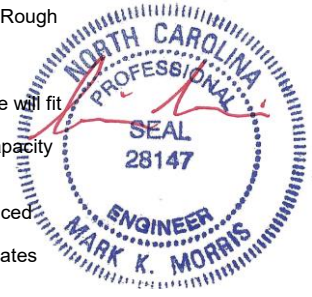
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-3-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 4-11-0 oc bracing: 11-14
 WEBS 1 Row at midpt 2-15

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

REACTIONS. (lb/size) 17=1077/0-3-8 (min. 0-1-8), 8=1096/0-3-8 (min. 0-1-8)
 Max Horz 17=207(LC 9)
 Max Uplift 17=-86(LC 12), 8=-61(LC 13)
 Max Grav 17=1150(LC 19), 8=1183(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-17=-1290/228, 1-2=-5068/773, 2-3=-2173/150, 3-4=-2055/167, 4-5=-2262/329,
 5-6=-1794/230, 6-7=-1763/90, 7-8=-1854/69
 BOT CHORD 16-17=-248/434, 15-16=-717/4017, 15-18=0/1057, 13-18=0/1057, 10-13=0/1057,
 10-19=0/1057, 9-19=0/1057, 8-9=-12/1442
 WEBS 1-16=-613/4236, 2-16=-331/1808, 2-15=-2163/570, 4-15=-399/243, 14-15=-294/1440,
 5-14=-248/1537, 5-11=-170/914, 9-11=-212/815, 6-9=-310/267

- NOTES-** (10-11)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 8.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
 - 11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.



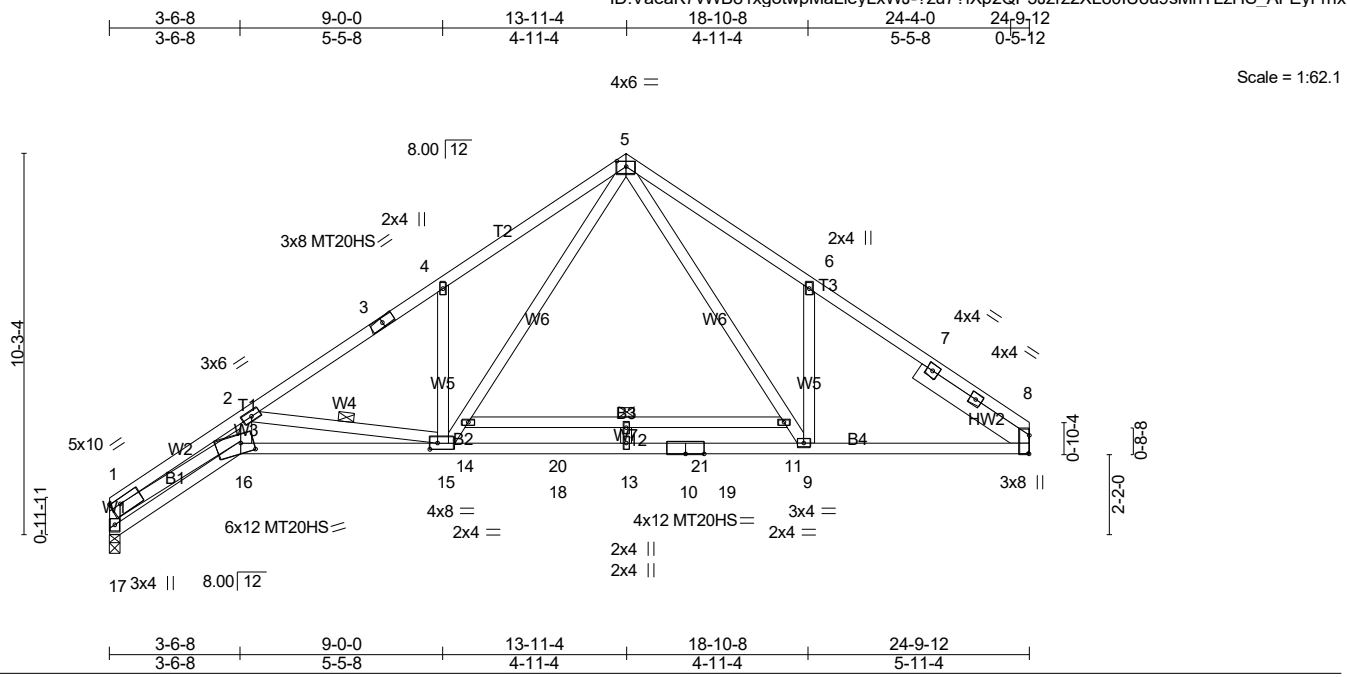
11/23/2020

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 20-5367-R01	Truss R13	Truss Type Roof Special	Qty 2	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	# 24508
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:42 2020 Page 1

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Scale = 1:62.1

Plate Offsets (X,Y)-- [1:Edge,0-1-12], [5:0-3-0,0-1-12], [8:0-6-0,Edge], [15:0-2-8,0-2-0], [16:0-4-0,0-3-4]					
LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 1.00	Vert(LL) -0.53 12 >556 240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.91	Vert(CT) -0.90 12 >330 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.30 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 160 lb	FT = 0%

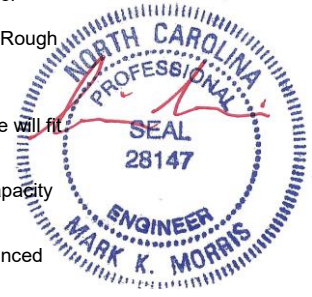
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* B2: 2x4 SP SS, B4: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-10-9 oc bracing: 15-16. 4-7-0 oc bracing: 11-14
WEBS 2x4 SP No.3 *Except* W2: 2x4 SP No.2	WEBS 1 Row at midpt 2-15
SLIDER Right 2x6 SP No.2 -, 3-7-2	

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

REACTIONS. (lb/size) 17=1065/0-3-8 (min. 0-1-8), 8=1086/Mechanical
 Max Horz 17=223(LC 9)
 Max Uplift 17=-86(LC 12), 8=-58(LC 13)
 Max Grav 17=1137(LC 19), 8=1174(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-17=-1281/224, 1-2=-5018/766, 2-3=-2144/149, 3-4=-2026/165, 4-5=-2231/327,
 5-6=-1711/224, 6-7=-1711/87, 7-8=-1785/66
 BOT CHORD 16-17=-257/440, 15-16=-711/3979, 15-18=0/1038, 13-18=0/1038, 10-13=0/1038,
 10-19=0/1038, 9-19=0/1038, 8-9=-9/1379
 WEBS 1-16=-612/4186, 2-16=-328/1793, 2-15=-2149/567, 4-15=-396/243, 14-15=-292/1433,
 5-14=-247/1532, 5-11=-164/836, 9-11=-205/734, 6-9=-266/264

- NOTES-** (11-12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - All plates are MT20 plates unless otherwise indicated.
 - 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) 17 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) 17, 8.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



11/23/2020

Continued on page 2
 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 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC
20-5367-R01	R13	Roof Special	2	1	Job Reference (optional) # 24508

8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:42 2020 Page 2
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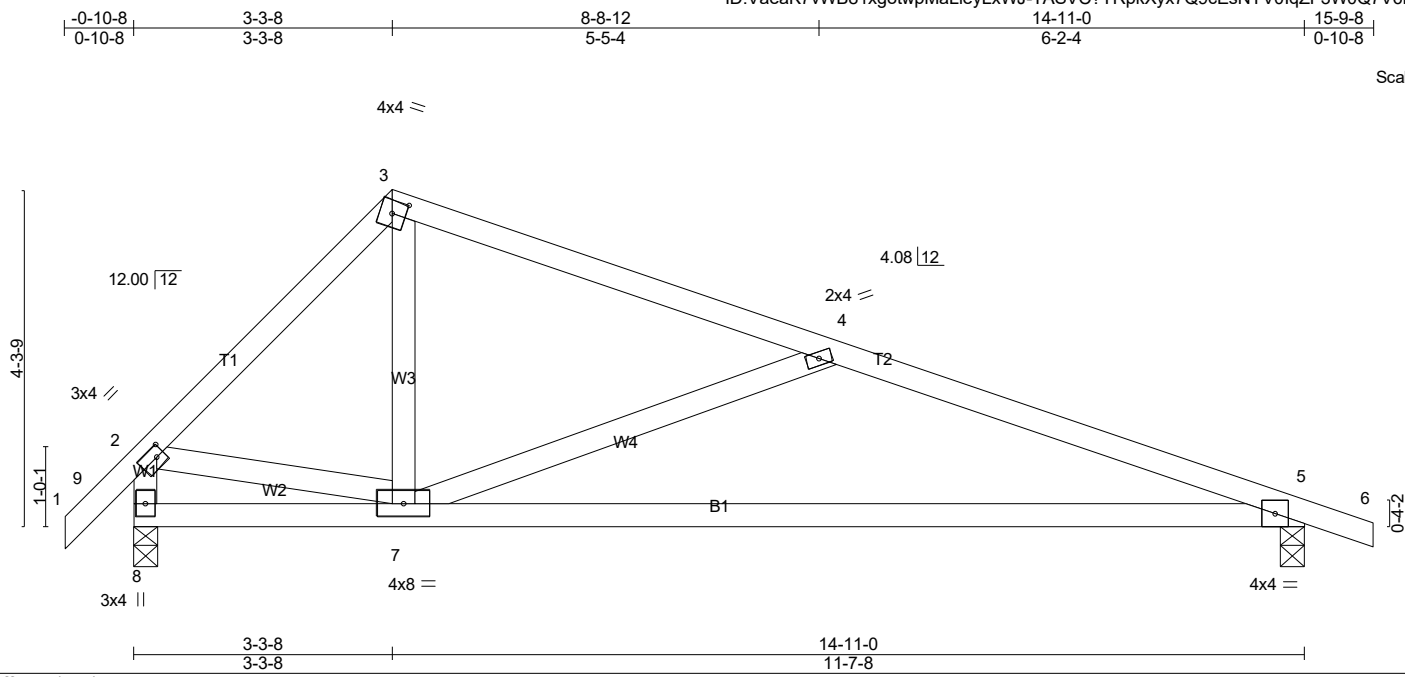
- 11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



11/23/2020

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Scale = 1:29.4

Plate Offsets (X,Y)-- [2:0-1-4,0-1-8], [3:0-2-1,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.64	Vert(LL) -0.32	5-7	>554	240	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.78	Vert(CT) -0.66	5-7	>266	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.48	Horz(CT) 0.02	5	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 70 lb	FT = 0%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3

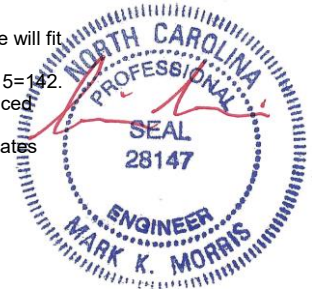
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-5-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS. (lb/size) 8=646/0-3-8 (min. 0-1-8), 5=646/0-3-8 (min. 0-1-8)
 Max Horz 8=-130(LC 12)
 Max Uplift 8=-85(LC 15), 5=-142(LC 11)
 Max Grav 8=677(LC 21), 5=696(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-689/90, 3-4=-598/71, 4-5=-1264/251, 2-8=-714/69
 BOT CHORD 5-7=-180/1165
 WEBS 3-7=0/441, 4-7=-727/257, 2-7=0/526

- NOTES-** (10-11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 5=142.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.



11/23/2020

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.



Scale = 1:28.5

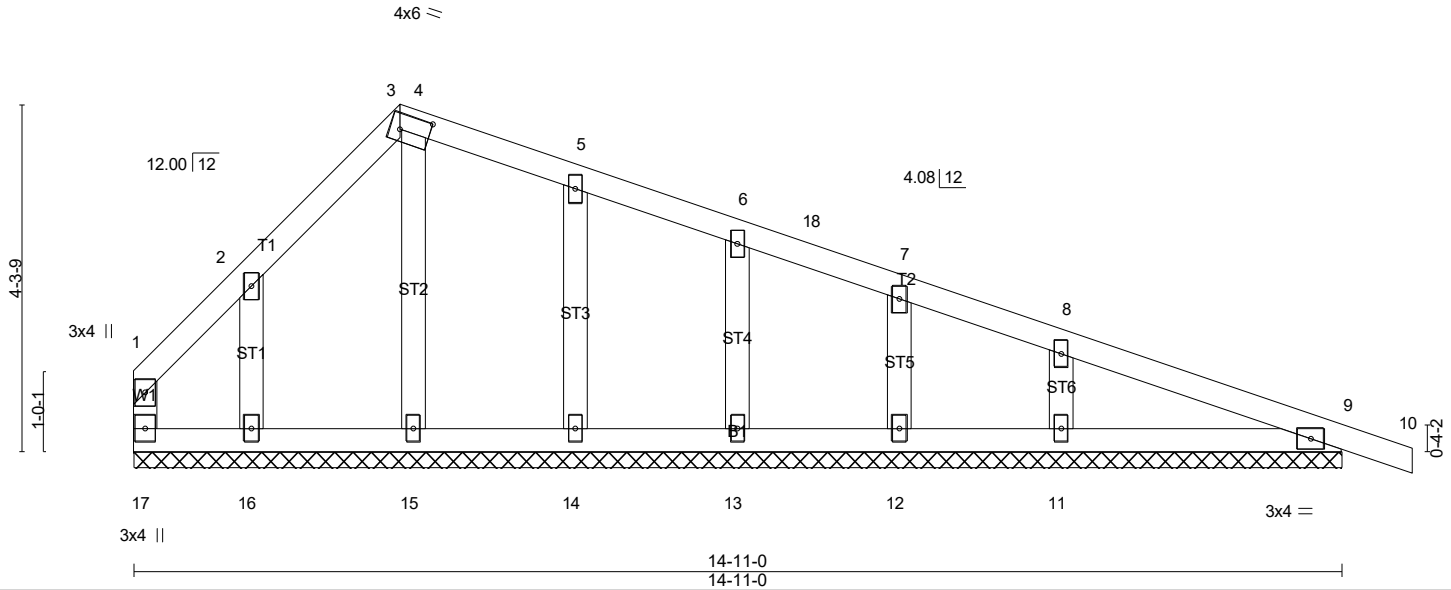


Plate Offsets (X,Y)-- [3:0-0-10,0-1-12], [3:0-4-6,0-2-4], [4:0-1-14,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.11	Vert(LL) 0.00	10	n/r	180	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT) 0.01	10	n/r	80		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Horz(CT) 0.00	9	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 70 lb	FT = 0%

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 10-0-0 oc bracing.

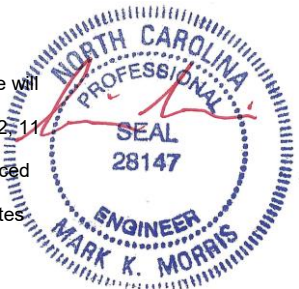
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 14-11-0.
 (lb) - Max Horz 17=-123(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 17, 9, 13, 14, 12, 11 except 16=-110(LC 14)
 Max Grav All reactions 250 lb or less at joint(s) 17, 9, 13, 14, 15, 16, 12 except 11=269(LC 35)

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

NOTES- (14-15)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 9, 13, 14, 12, 11 except (jt=lb) 16=110.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.



11/23/2020

LOAD CASE(S) Standard

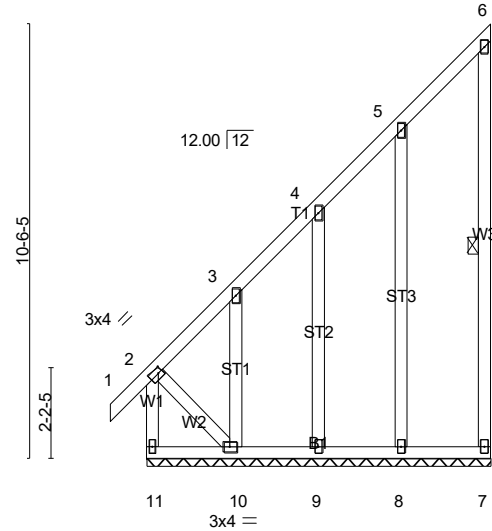
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer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

Job 20-5367-R01	Truss R24	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC
Job Reference (optional)					# 24508

8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:45 2020 Page 1
 ID:VaeaK7vWB81xgotwpMaLleyLxWJ-QYZFdhZhLLngARZYkfurew5m4M5z_DQzPDqsZyFrhu

-0-10-8 8-4-0
 0-10-8 8-4-0

Scale = 1:55.8



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	2-0-0		TC	0.15	in	(loc)	l/defl	L/d	MT20	244/190
Snow (Pf)	20.0	Plate Grip DOL	1.15	BC	0.11	Vert(LL)	0.00	1	n/r		
TCDL	10.0	Lumber DOL	1.15	WB	0.20	Vert(CT)	0.00	1	n/r		
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-P		Horz(CT)	-0.00	7	n/a		
BCDL	10.0	Code IRC2018/TPI2014								Weight: 79 lb	FT = 0%

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

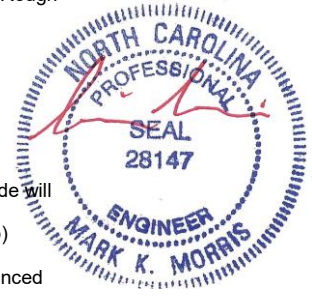
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-7

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

REACTIONS. All bearings 8-4-0.
 (lb) - Max Horz 11=295(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 7 except 11=145(LC 10), 9=105(LC 12), 10=396(LC 12), 8=114(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 7 except 11=510(LC 12), 9=268(LC 20), 10=323(LC 20), 8=302(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-11=-502/385, 2-3=-360/296, 3-4=-263/201
 BOT CHORD 10-11=-307/225
 WEBS 2-10=-315/431

- NOTES-** (13-14)
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 11=145, 9=105, 10=396, 8=114.
 - 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Continued on page 2
 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 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC
20-5367-R01	R24	Monopitch Supported Gable	1	1	Job Reference (optional) # 24508

8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:46 2020 Page 2
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- 13) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard

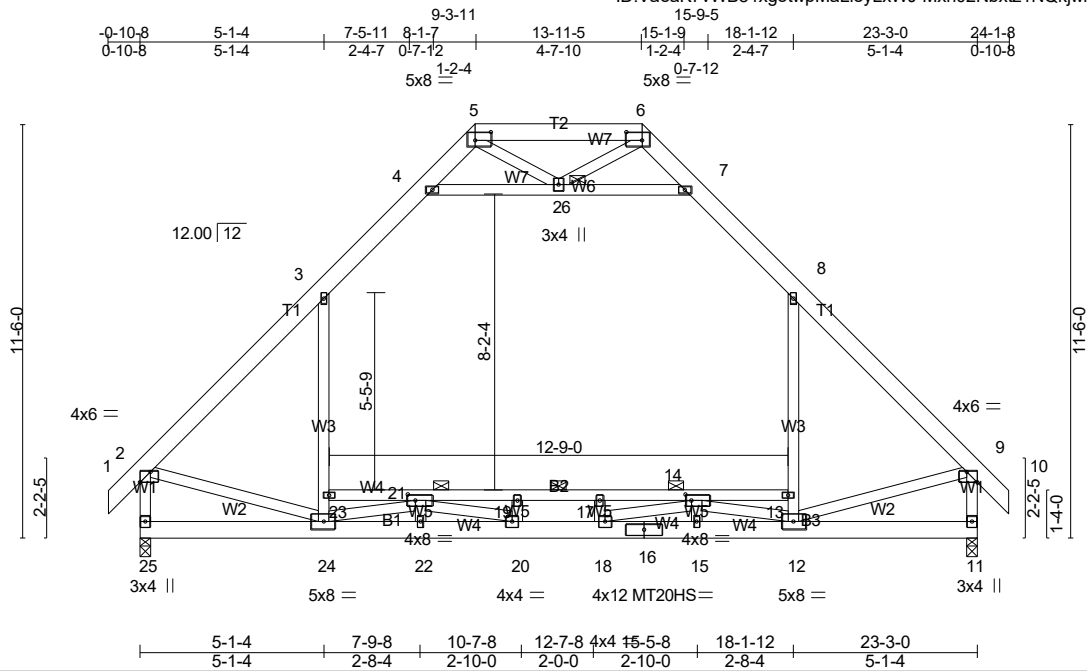


11/23/2020

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 20-5367-R01	Truss R25	Truss Type Attic	Qty 8	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	# 24508
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ID:VaeaK7vWB81xgotwpMaLleyLxWJ-Mxh02Nbxzt1NQkjwr4xJlBvaAbQsri2iQjixxSyFrhs
8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:47 2020 Page 1



Scale: 3/16"=1'

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [5:0-5-4,0-2-12], [6:0-5-4,0-2-12], [9:0-3-8,Edge], [14:0-2-0,0-2-0], [21:0-2-8,0-2-0]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.98	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.88	Vert(LL) -0.23 17-19 >999 240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.44	Vert(CT) -0.38 17-19 >732 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.03 11 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014		Attic -0.12 13-23 1296 360		Weight: 228 lb FT = 0%

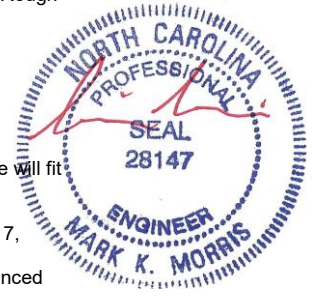
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x6 SP No.2 *Except* B2: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 3-7-0 oc bracing: 13-23
WEBS 2x4 SP No.3 *Except* W3,W6: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 26

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

REACTIONS. (lb/size) 25=1175/0-3-8 (min. 0-1-11), 11=1175/0-3-8 (min. 0-1-11)
Max Horz 25=294(LC 11)
Max Grav 25=1442(LC 3), 11=1442(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1357/36, 3-4=-851/123, 4-5=-172/266, 5-6=-35/419, 6-7=-172/266, 7-8=-851/123,
8-9=-1358/37, 2-25=-1391/18, 9-11=-1391/19
BOT CHORD 24-25=-292/367, 22-24=-39/2418, 20-22=-39/2418, 18-20=0/3052, 16-18=0/2281,
15-16=0/2281, 12-15=0/2281, 19-21=-2349/0, 17-19=-2349/0, 14-17=-2349/0
WEBS 23-24=0/505, 3-23=0/623, 12-13=0/505, 8-13=0/623, 4-26=-1246/223, 7-26=-1249/225,
2-24=-41/834, 9-12=-45/838, 21-24=-1671/0, 20-21=-142/901, 14-18=-160/916,
12-14=-1671/0

- NOTES-** (14-15)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-26, 7-26
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 21-23, 19-21, 17-19, 14-17, 13-14
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Attic room checked for L/360 deflection.



11/23/2020

Continued on Page 2 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 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC
20-5367-R01	R25	Attic	8	1	Job Reference (optional) # 24508

8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:47 2020 Page 2

ID:VaeaK7vWB81xgotwpMaLleyLxWJ-Mxh02Nbxtz1NQkjr4xJlBvaAbQsr2iQjixxSyFrhs

- 14) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard



11/23/2020

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 20-5367-R01	Truss R26	Truss Type ATTIC	Qty 1	Ply 2	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC # 24508
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:49 2020 Page 1

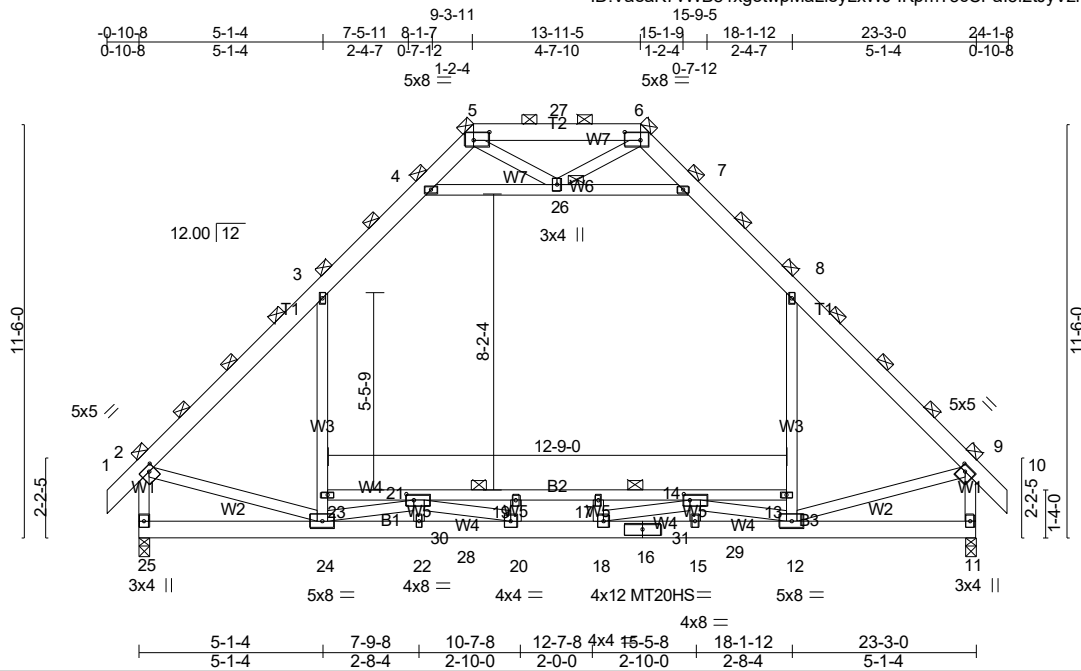


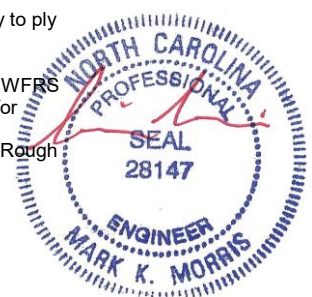
Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [5:0-5-4,0-2-12], [6:0-5-4,0-2-12], [9:0-2-0,0-1-12], [14:0-2-0,0-2-0], [21:0-2-8,0-2-0]					
LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	3-0-0	TC 0.75	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.77	Vert(LL) -0.16 17-19 >999 240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.38	Vert(CT) -0.33 17-19 >840 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.03 11 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014		Attic -0.09 13-23 1746 360		Weight: 455 lb FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* T2: 2x6 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD 2x6 SP No.2 *Except* B2: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 5-9-0 oc bracing: 13-23
WEBS 2x4 SP No.3 *Except* W3,W6: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 5, 6, 2, 9, 26

REACTIONS. (lb/size) 25=2157/0-3-8 (min. 0-1-8), 11=2157/0-3-8 (min. 0-1-8)
Max Horz 25=441(LC 11)
Max Grav 25=2557(LC 3), 11=2556(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2448/0, 3-4=-1544/0, 4-5=-327/329, 5-27=-38/639, 6-27=-323/333,
7-8=-1544/0, 8-9=-2450/0, 2-25=-2496/0, 9-11=-2496/0
BOT CHORD 24-25=-417/562, 22-24=0/4533, 22-28=0/4533, 20-28=0/4533, 18-20=0/5663, 16-18=0/4336,
16-29=0/4336, 15-29=0/4336, 12-15=0/4336, 21-30=-4335/0, 19-30=-4335/0, 17-19=-4335/0,
17-31=-4335/0, 14-31=-4335/0
WEBS 23-24=0/963, 3-23=0/1146, 12-13=0/964, 8-13=0/1147, 4-26=-2156/56, 7-26=-2165/54,
2-24=0/1530, 9-12=0/1536, 17-18=-352/0, 19-20=-352/0, 21-22=-8/465, 14-15=-31/486,
21-24=-3213/0, 20-21=-25/1518, 14-18=-50/1542, 12-14=-3212/0

- NOTES-** (19-20)
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row 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=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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.



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Continued on Page 2 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 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC
20-5367-R01	R26	ATTIC	1	2	Job Reference (optional) # 24508

8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:50 2020 Page 2
 ID:VaeaK7vWB81xgotwpaMaLleyLxWJ-mWN8gOdqAuQyHCSVWU0L_pUPNdtfDh96hwbXmyFrhp

NOTES- (19-20)

- 12) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-26, 7-26
- 13) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 21-23, 19-21, 17-19, 14-17, 13-14
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 210 lb down at 11-7-0 on top chord, and 289 lb down at 8-3-4, and 289 lb down at 14-11-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 18) Attic room checked for L/360 deflection.
- 19) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- 20) 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.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-90, 2-3=-90, 3-4=-105, 4-5=-90, 5-6=-90, 6-7=-90, 7-8=-105, 8-9=-90, 9-10=-90, 11-25=-30, 13-23=-30, 4-7=-15
 Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-90, 2-3=-90, 3-4=-105, 4-5=-90, 5-6=-90, 6-7=-90, 7-8=-105, 8-9=-90, 9-10=-90, 11-25=-30, 13-23=-30, 4-7=-15
 Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-75, 2-3=-75, 3-4=-90, 4-5=-75, 5-6=-75, 6-7=-75, 7-8=-90, 8-9=-75, 9-10=-75, 11-25=-30, 13-23=-120, 4-7=-15
 Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 4) Dead + 0.75 Snow (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-75, 2-3=-75, 3-4=-90, 4-5=-75, 5-6=-75, 6-7=-75, 7-8=-90, 8-9=-75, 9-10=-75, 11-25=-30, 13-23=-120, 4-7=-15
 Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-30, 2-3=-30, 3-4=-45, 4-5=-30, 5-6=-30, 6-7=-30, 7-8=-45, 8-9=-30, 9-10=-30, 11-25=-60, 13-23=-30, 4-7=-15
 Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-15, 2-3=-7, 3-4=-16, 4-5=-7, 5-6=-7, 6-7=-7, 7-8=-16, 8-9=-7, 9-10=-15, 11-25=-15, 13-23=-15, 4-7=-9
 Horz: 2-5=-8, 6-9=8, 2-25=-45, 9-11=45
 Drag: 2-25=0, 9-11=0
 Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-17, 2-3=-51, 3-4=-66, 4-5=-51, 5-6=-51, 6-7=-51, 7-8=-66, 8-9=-51, 9-10=-17, 11-25=-30, 13-23=-30, 4-7=-15
 Horz: 1-2=-13, 2-5=21, 6-9=-21, 9-10=13, 2-25=41, 9-11=41
 Drag: 2-25=0, 9-11=0
 Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-1, 2-3=-19, 3-4=-28, 4-5=-19, 5-6=39, 6-7=16, 7-8=7, 8-9=16, 9-10=8, 11-25=-15, 13-23=-15, 4-7=-9
 Horz: 1-2=-14, 2-5=4, 6-9=31, 9-10=23, 2-25=22, 9-11=28
 Drag: 2-25=0, 9-11=-0
 Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=8, 2-3=16, 3-4=7, 4-5=16, 5-6=39, 6-7=-19, 7-8=-28, 8-9=-19, 9-10=-1, 11-25=-15, 13-23=-15, 4-7=-9
 Horz: 1-2=-23, 2-5=-31, 6-9=-4, 9-10=14, 2-25=-28, 9-11=-22
 Drag: 2-25=0, 9-11=0
 Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-42, 2-3=-49, 3-4=-64, 4-5=-49, 5-6=8, 6-7=-15, 7-8=-30, 8-9=-15, 9-10=-7, 11-25=-30, 13-23=-30, 4-7=-15
 Horz: 1-2=12, 2-5=19, 6-9=15, 9-10=23, 2-25=37, 9-11=13
 Drag: 2-25=0, 9-11=-0
 Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60



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Continued on Page 3
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20-5367-R01	R26	ATTIC	1	2	Job Reference (optional) # 24508

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 ID:VaeaK7VWB81xgotwpaMaLleyLxWJ-mWN8gOdqAuQyHCSVWU0L_pUPNdtfDh96hwbXmyFhrp

LOAD CASE(S) Standard

- Uniform Loads (plf)
 Vert: 1-2=-7, 2-3=-15, 3-4=-30, 4-5=-15, 5-6=8, 6-7=-49, 7-8=-64, 8-9=-49, 9-10=-42, 11-25=-30, 13-23=-30, 4-7=-15
 Horz: 1-2=-23, 2-5=-15, 6-9=-19, 9-10=-12, 2-25=-13, 9-11=-37
 Drag: 2-25=0, 9-11=0
- Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
 Vert: 1-2=31, 2-3=39, 3-4=30, 4-5=39, 5-6=16, 6-7=16, 7-8=7, 8-9=16, 9-10=8, 11-25=-15, 13-23=-15, 4-7=-9
 Horz: 1-2=-46, 2-5=-54, 6-9=31, 9-10=23, 2-25=18, 9-11=26
 Drag: 2-25=0, 9-11=0
- Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
 Vert: 1-2=8, 2-3=16, 3-4=7, 4-5=16, 5-6=16, 6-7=39, 7-8=30, 8-9=39, 9-10=31, 11-25=-15, 13-23=-15, 4-7=-9
 Horz: 1-2=-23, 2-5=-31, 6-9=54, 9-10=46, 2-25=-26, 9-11=-18
 Drag: 2-25=0, 9-11=0
- Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
 Vert: 1-2=31, 2-3=39, 3-4=30, 4-5=39, 5-6=16, 6-7=16, 7-8=7, 8-9=16, 9-10=8, 11-25=-15, 13-23=-15, 4-7=-9
 Horz: 1-2=-46, 2-5=-54, 6-9=31, 9-10=23, 2-25=18, 9-11=26
 Drag: 2-25=0, 9-11=0
- Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
 Vert: 1-2=8, 2-3=16, 3-4=7, 4-5=16, 5-6=16, 6-7=39, 7-8=30, 8-9=39, 9-10=31, 11-25=-15, 13-23=-15, 4-7=-9
 Horz: 1-2=-23, 2-5=-31, 6-9=54, 9-10=46, 2-25=-26, 9-11=-18
 Drag: 2-25=0, 9-11=0
- Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
 Vert: 1-2=16, 2-3=8, 3-4=-7, 4-5=8, 5-6=-15, 6-7=-15, 7-8=-30, 8-9=-15, 9-10=-7, 11-25=-30, 13-23=-30, 4-7=-15
 Horz: 1-2=-46, 2-5=-38, 6-9=15, 9-10=23, 2-25=34, 9-11=11
 Drag: 2-25=0, 9-11=0
- Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
 Vert: 1-2=-7, 2-3=-15, 3-4=-30, 4-5=-15, 5-6=-15, 6-7=8, 7-8=-7, 8-9=8, 9-10=16, 11-25=-30, 13-23=-30, 4-7=-15
 Horz: 1-2=-23, 2-5=-15, 6-9=38, 9-10=46, 2-25=-11, 9-11=-34
 Drag: 2-25=0, 9-11=0
- Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 Vert: 1-2=-150, 2-5=-30, 5-6=-30, 6-9=-30, 9-10=-150, 11-25=-30, 13-23=-30
- Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 19) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
 Vert: 1-2=-30, 2-3=-30, 3-4=-45, 4-5=-30, 5-6=-30, 6-7=-30, 7-8=-45, 8-9=-30, 9-10=-30, 11-25=-30, 13-23=-150, 4-7=-15
- Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 20) Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
 Vert: 1-2=-30, 2-3=-30, 3-4=-45, 4-5=-30, 5-6=-30, 6-7=-30, 7-8=-45, 8-9=-30, 9-10=-30, 11-25=-30, 13-23=-150, 4-7=-15
- Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 21) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
 Vert: 1-2=-84, 2-3=-90, 3-4=-105, 4-5=-90, 5-6=-46, 6-7=-64, 7-8=-79, 8-9=-64, 9-10=-58, 11-25=-30, 13-23=-120, 4-7=-15
 Horz: 1-2=9, 2-5=15, 6-9=11, 9-10=17, 2-25=28, 9-11=10
 Drag: 2-25=0, 9-11=0
- Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)
- 22) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
 Vert: 1-2=-58, 2-3=-64, 3-4=-79, 4-5=-64, 5-6=-46, 6-7=-90, 7-8=-105, 8-9=-90, 9-10=-84, 11-25=-30, 13-23=-120, 4-7=-15
 Horz: 1-2=-17, 2-5=-11, 6-9=-15, 9-10=-9, 2-25=-10, 9-11=-28
 Drag: 2-25=0, 9-11=0
- Concentrated Loads (lb)
 Vert: 27=-210(F) 28=-289(F) 29=-289(F)



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Continued on Page 4
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 ID:VaeaK7VWB81xgotwpMaLleyLxWJ-mWN8gOdqAuQyHCSVWU0L_pUPNdtfDh96hwbXmyFrhp

LOAD CASE(S) Standard

23) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-41, 2-3=-46, 3-4=-61, 4-5=-46, 5-6=-64, 6-7=-64, 7-8=-79, 8-9=-64, 9-10=-58, 11-25=-30, 13-23=-120, 4-7=-15
 Horz: 1-2=-34, 2-5=-29, 6-9=11, 9-10=17, 2-25=25, 9-11=8
 Drag: 2-25=0, 9-11=0

Concentrated Loads (lb)

Vert: 27=-210(F) 28=-289(F) 29=-289(F)

24) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-58, 2-3=-64, 3-4=-79, 4-5=-64, 5-6=-64, 6-7=-46, 7-8=-61, 8-9=-46, 9-10=-41, 11-25=-30, 13-23=-120, 4-7=-15
 Horz: 1-2=-17, 2-5=-11, 6-9=29, 9-10=34, 2-25=-8, 9-11=-25
 Drag: 2-25=0, 9-11=0

Concentrated Loads (lb)

Vert: 27=-210(F) 28=-289(F) 29=-289(F)

25) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-84, 2-3=-90, 3-4=-105, 4-5=-90, 5-6=-46, 6-7=-64, 7-8=-79, 8-9=-64, 9-10=-58, 11-25=-30, 13-23=-120, 4-7=-15
 Horz: 1-2=9, 2-5=15, 6-9=11, 9-10=17, 2-25=28, 9-11=10
 Drag: 2-25=0, 9-11=0

Concentrated Loads (lb)

Vert: 27=-210(F) 28=-289(F) 29=-289(F)

26) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-58, 2-3=-64, 3-4=-79, 4-5=-64, 5-6=-46, 6-7=-90, 7-8=-105, 8-9=-90, 9-10=-84, 11-25=-30, 13-23=-120, 4-7=-15
 Horz: 1-2=-17, 2-5=-11, 6-9=-15, 9-10=-9, 2-25=-10, 9-11=-28
 Drag: 2-25=0, 9-11=0

Concentrated Loads (lb)

Vert: 27=-210(F) 28=-289(F) 29=-289(F)

27) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-41, 2-3=-46, 3-4=-61, 4-5=-46, 5-6=-64, 6-7=-64, 7-8=-79, 8-9=-64, 9-10=-58, 11-25=-30, 13-23=-120, 4-7=-15
 Horz: 1-2=-34, 2-5=-29, 6-9=11, 9-10=17, 2-25=25, 9-11=8
 Drag: 2-25=0, 9-11=0

Concentrated Loads (lb)

Vert: 27=-210(F) 28=-289(F) 29=-289(F)

28) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-58, 2-3=-64, 3-4=-79, 4-5=-64, 5-6=-64, 6-7=-46, 7-8=-61, 8-9=-46, 9-10=-41, 11-25=-30, 13-23=-120, 4-7=-15
 Horz: 1-2=-17, 2-5=-11, 6-9=29, 9-10=34, 2-25=-8, 9-11=-25
 Drag: 2-25=0, 9-11=0

Concentrated Loads (lb)

Vert: 27=-210(F) 28=-289(F) 29=-289(F)

29) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=9, 2-3=-39, 3-4=-48, 4-5=-39, 5-6=-39, 6-7=-39, 7-8=48, 8-9=-39, 9-10=9, 11-25=-15, 13-23=-15, 4-7=-9
 Horz: 1-2=-24, 2-5=24, 6-9=-24, 9-10=24, 2-25=24, 9-11=-24
 Drag: 2-25=0, 9-11=0

Concentrated Loads (lb)

Vert: 27=-210(F) 28=-289(F) 29=-289(F)

30) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=9, 2-5=9, 5-6=9, 6-9=9, 9-10=9, 11-25=-15, 13-23=-15
 Horz: 1-2=-24, 2-5=-24, 6-9=24, 9-10=24, 2-25=-24, 9-11=24
 Drag: 2-25=0, 9-11=0

Concentrated Loads (lb)

Vert: 27=-210(F) 28=-289(F) 29=-289(F)

31) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-90, 2-3=-90, 3-4=-105, 4-5=-90, 5-6=-90, 6-7=-30, 7-8=-45, 8-9=-30, 9-10=-30, 11-25=-30, 13-23=-30, 4-7=-15
 Concentrated Loads (lb)

Vert: 27=-210(F) 28=-289(F) 29=-289(F)

32) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-30, 2-3=-30, 3-4=-45, 4-5=-30, 5-6=-90, 6-7=-90, 7-8=-105, 8-9=-90, 9-10=-90, 11-25=-30, 13-23=-30, 4-7=-15
 Concentrated Loads (lb)

Vert: 27=-210(F) 28=-289(F) 29=-289(F)

33) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-75, 2-3=-75, 3-4=-90, 4-5=-75, 5-6=-75, 6-7=-30, 7-8=-45, 8-9=-30, 9-10=-30, 11-25=-30, 13-23=-120, 4-7=-15
 Concentrated Loads (lb)

Vert: 27=-210(F) 28=-289(F) 29=-289(F)

34) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-30, 2-3=-30, 3-4=-45, 4-5=-30, 5-6=-75, 6-7=-75, 7-8=-90, 8-9=-75, 9-10=-75, 11-25=-30, 13-23=-120, 4-7=-15
 Concentrated Loads (lb)

Vert: 27=-210(F) 28=-289(F) 29=-289(F)

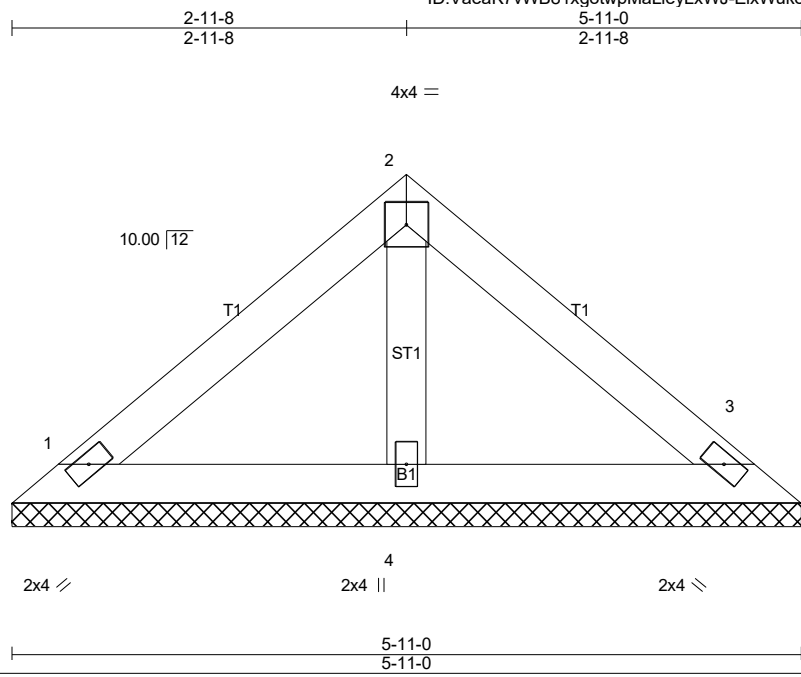


11/23/2020

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Job 20-5367-R01	Truss VT01	Truss Type Valley	Qty 1	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	Job Reference (optional) # 24508
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8.330 s Mar 10 2020 MiTek Industries, Inc. Tue Nov 24 22:22:51 2020 Page 1
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Scale = 1:17.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	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 IRC2018/TPI2014			Weight: 22 lb	FT = 0%

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 5-11-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

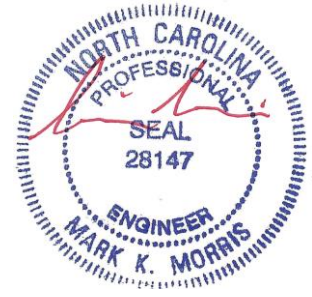
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=117/5-11-0 (min. 0-1-8), 3=117/5-11-0 (min. 0-1-8), 4=175/5-11-0 (min. 0-1-8)
 Max Horz 1=-49(LC 10)
 Max Uplift1=-26(LC 13), 3=-32(LC 13)

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

- NOTES-** (9-10)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard

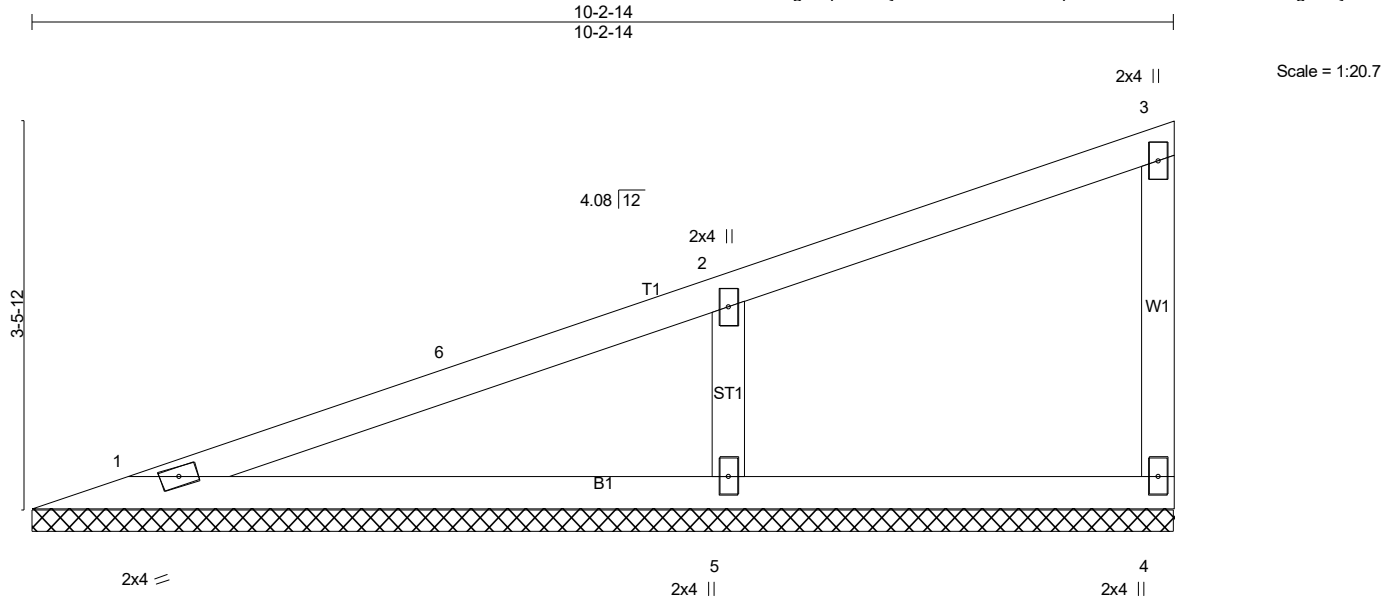


11/23/2020

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Job 20-5367-R01	Truss VT03	Truss Type Valley	Qty 1	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	Job Reference (optional) # 24508
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.37	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 37 lb	FT = 0%

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

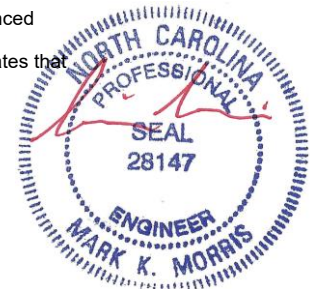
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation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

REACTIONS. (lb/size) 1=174/10-2-14 (min. 0-1-8), 4=97/10-2-14 (min. 0-1-8), 5=466/10-2-14 (min. 0-1-8)
Max Horz 1=112(LC 10)
Max Uplift 1=-5(LC 10), 4=-25(LC 10), 5=-116(LC 10)
Max Grav 1=180(LC 20), 4=140(LC 20), 5=588(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-453/158

- NOTES-** (9-10)
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=116.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard

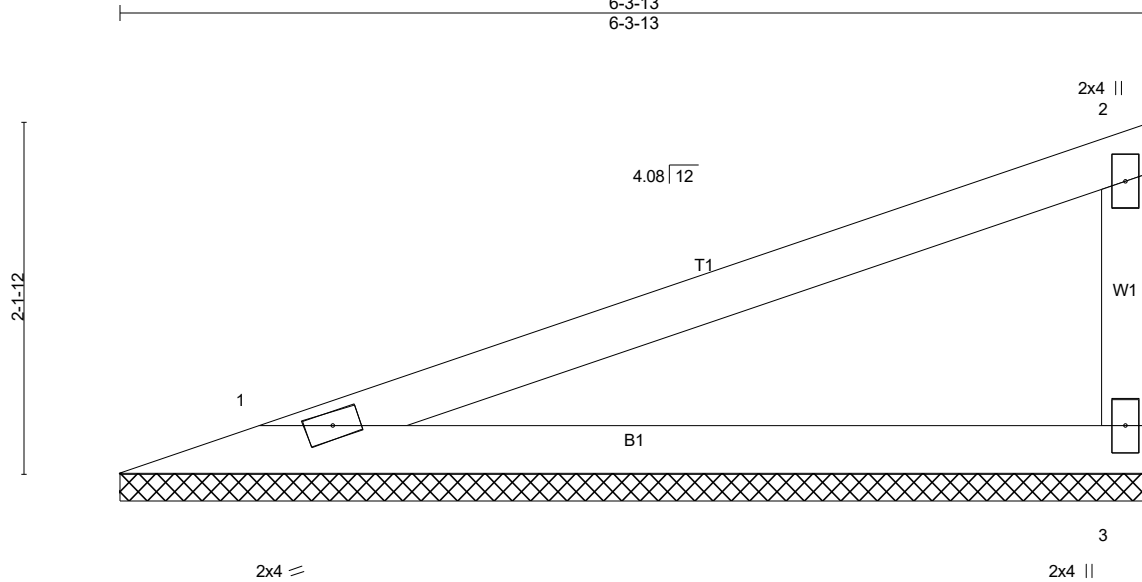


11/23/2020

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Job 20-5367-R01	Truss VT04	Truss Type Valley	Qty 1	Ply 1	LOT 1167 CARRIAGE CIRCLE 92 SPRUCE HOLLOW CIRCLE SPRING LAKE, NC	Job Reference (optional) # 24508
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Scale = 1:14.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.81	in (loc) l/defl L/d	MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.60	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 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 20 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-3-13 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.

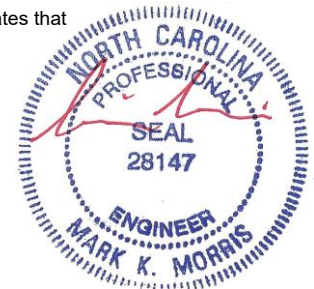
REACTIONS. (lb/size) 1=212/6-3-13 (min. 0-1-8), 3=212/6-3-13 (min. 0-1-8)
Max Horz 1=64(LC 10)
Max Uplift 1=-31(LC 10), 3=-53(LC 10)
Max Grav 1=284(LC 20), 3=284(LC 20)

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

NOTES- (9-10)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
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LOAD CASE(S) Standard



11/23/2020

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