Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483

843 209-5784, Fax (866)-213-4614

The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

AST #:   24698
JOB: 20-5718-R01
JOB NAME: LOT 1162 CARRIAGE CIRCLE
Wind Code: 37
Wind Speed: Vult= 120mph
Exposure Category: B
Mean Roof Height (feet): 23

27 Truss Design(s)

Trusses:
J01, J02, PB01, PB02, PB03, R01, R02, R02A, R03, R03A, R03B, R04, R05, R06, R07, R07A, R07B, R08, R09, R10, R11, VT01, VT02, VT03, VT04, VT05, VT06

12/9/2020
Mark Morris

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	J01	Monopitch Supported Gable	1	1	**# 24698**
					Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:27 2020 Page 1
ID:MsMZ7fuyNIJd5lEFbR85JwyPq?q-xFqPf9s6iywUKA?cnSm1vHbSY0lZFAZOGpj5hFyAG42

Scale = 1:17.0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	1	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	1	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-R							Weight: 23 lb	FT = 0%
BCDL	10.0											

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 4-10-8 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.
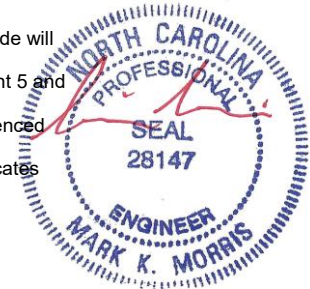
REACTIONS. (lb/size) 7=151/4-10-8 (min. 0-1-8), 5=76/4-10-8 (min. 0-1-8), 6=200/4-10-8 (min. 0-1-8)
Max Horz 7=63(LC 14)
Max Uplift7=-2(LC 10), 5=-13(LC 14), 6=-60(LC 14)
Max Grav 7=219(LC 21), 5=106(LC 21), 6=274(LC 21)

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

NOTES- (13-14)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 7, 13 lb uplift at joint 5 and 60 lb uplift at joint 6.
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.
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.
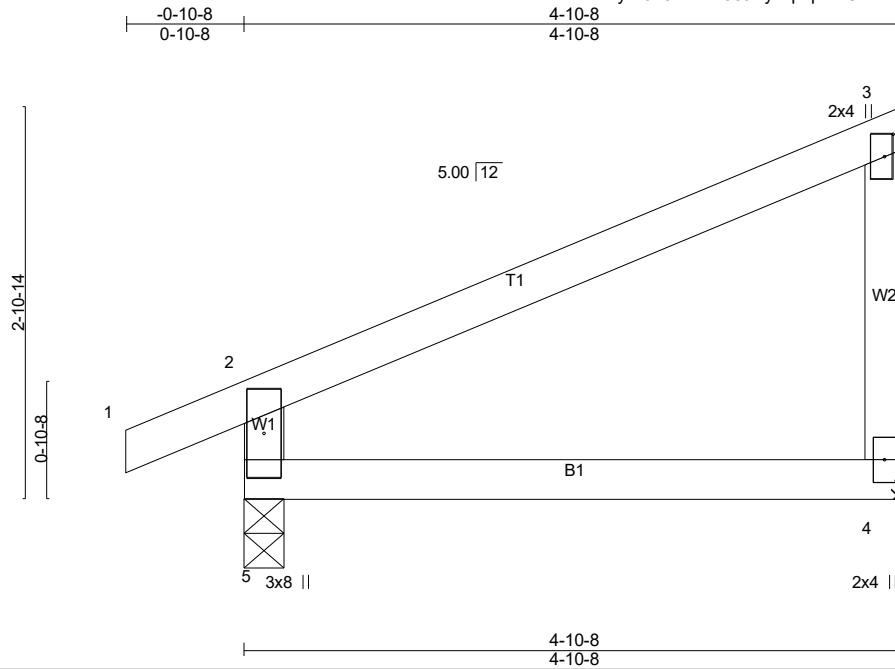
LOAD CASE(S) Standard

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	J02	Monopitch	4	1		
					Job Reference (optional)	# 24698

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:28 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-PROnsVskTG2LyKZpL9IGRU8Z9Q38_dWYVTTeDiyAG41

Scale = 1:17.0

Plate Offsets (X,Y)-- [3:0-2-0,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.02	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-R							Weight: 21 lb	FT = 0%
BCDL	10.0											

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 4-10-8 oc purlins, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS.   (lb/size) 4=177/Mechanical, 5=251/0-3-8 (min. 0-1-8)
Max Horz 5=63(LC 14)
Max Uplift4=-51(LC 10), 5=-48(LC 10)
Max Grav 4=243(LC 21), 5=356(LC 21)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-5=-324/53

NOTES-   (10-11)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(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 51 lb uplift at joint 4 and 48 lb uplift at joint 5.
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.
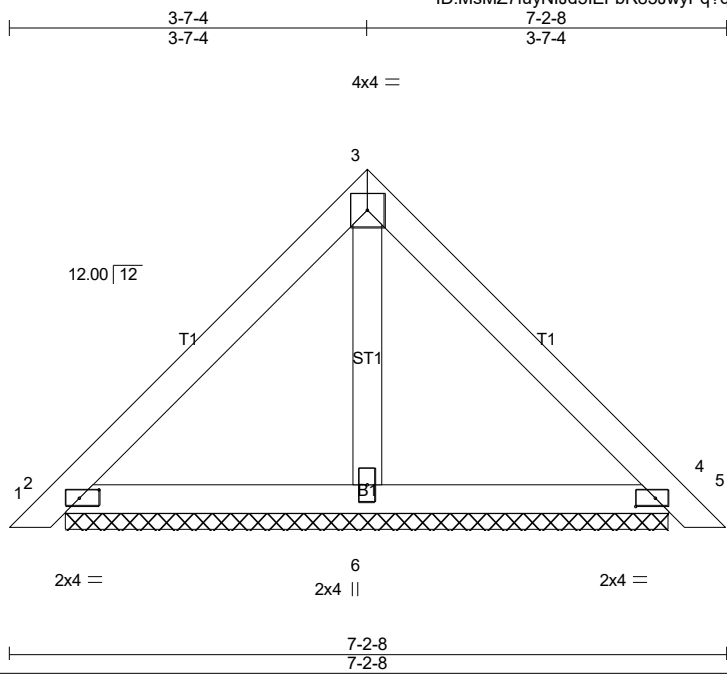
LOAD CASE(S) Standard

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	PB01	Piggyback	7	1	# 24698
					Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:29 2020 Page 1
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Scale = 1:23.2

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.00	5	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	0.01	5	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							Weight: 28 lb	FT = 0%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
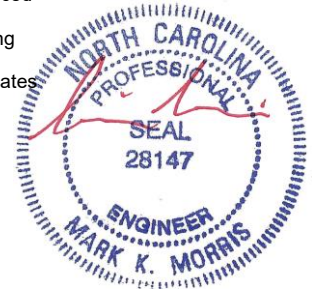
REACTIONS. (lb/size) 2=170/6-0-14 (min. 0-1-8), 4=170/6-0-14 (min. 0-1-8), 6=190/6-0-14 (min. 0-1-8)
Max Horz 2=-66(LC 10)
Max Uplift2=-30(LC 13), 4=-35(LC 13)

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

NOTES- (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=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) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2 and 35 lb uplift at joint 4.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
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.
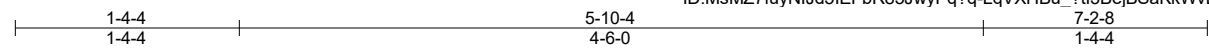
LOAD CASE(S) Standard

NORTH CAROLINA PROFESSIONAL SEAL 28147 ENGINEER MARK K. MORRIS

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	PB02	Piggyback	1	1	**# 24698**
					Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:30 2020 Page 1
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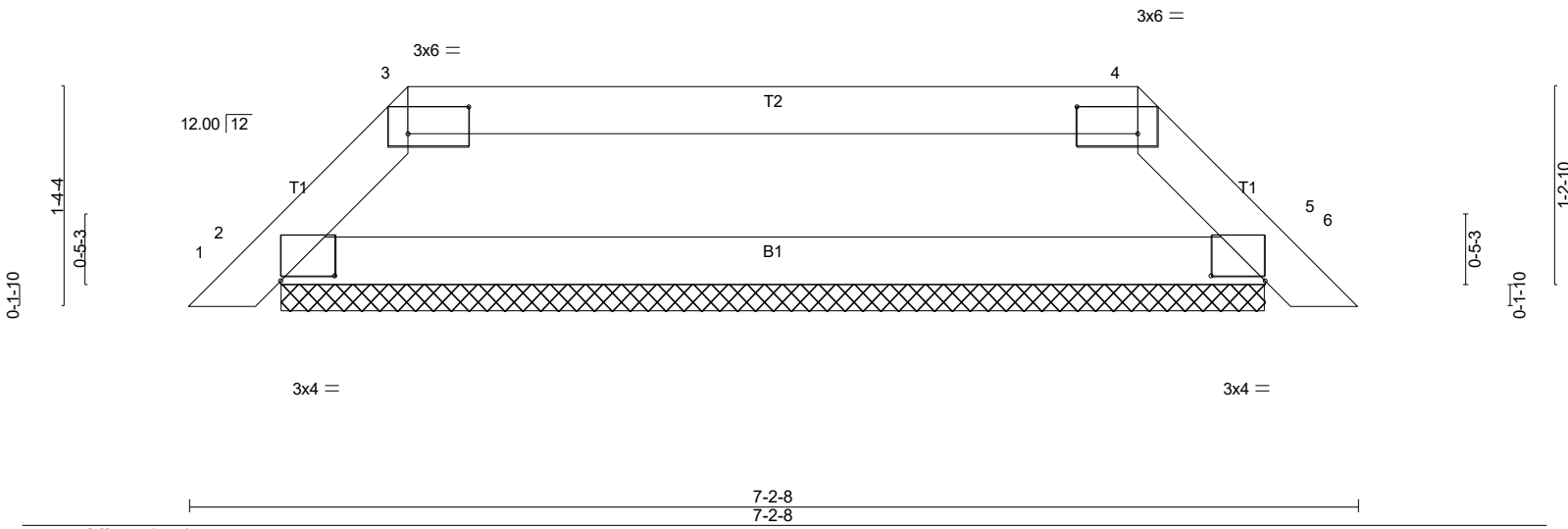
Scale = 1:13.9

Plate Offsets (X,Y)-- [2:0-4-0,0-0-6], [3:0-4-8,0-2-0], [4:0-4-8,0-2-0], [5:0-4-0,0-0-6]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	0.00	5	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	0.00	6	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-R							Weight: 21 lb	FT = 0%
BCDL	10.0											

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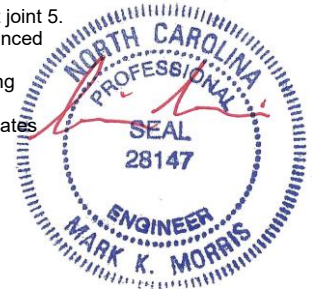TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3

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

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

REACTIONS. (lb/size)   2=265/6-0-14 (min. 0-1-8), 5=265/6-0-14 (min. 0-1-8)
Max Horz 2=-24(LC 10)
Max Uplift2=-20(LC 9), 5=-20(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-300/68, 4-5=-300/68

NOTES-   (12-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=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) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 2 and 20 lb uplift at joint 5.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) 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.
13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
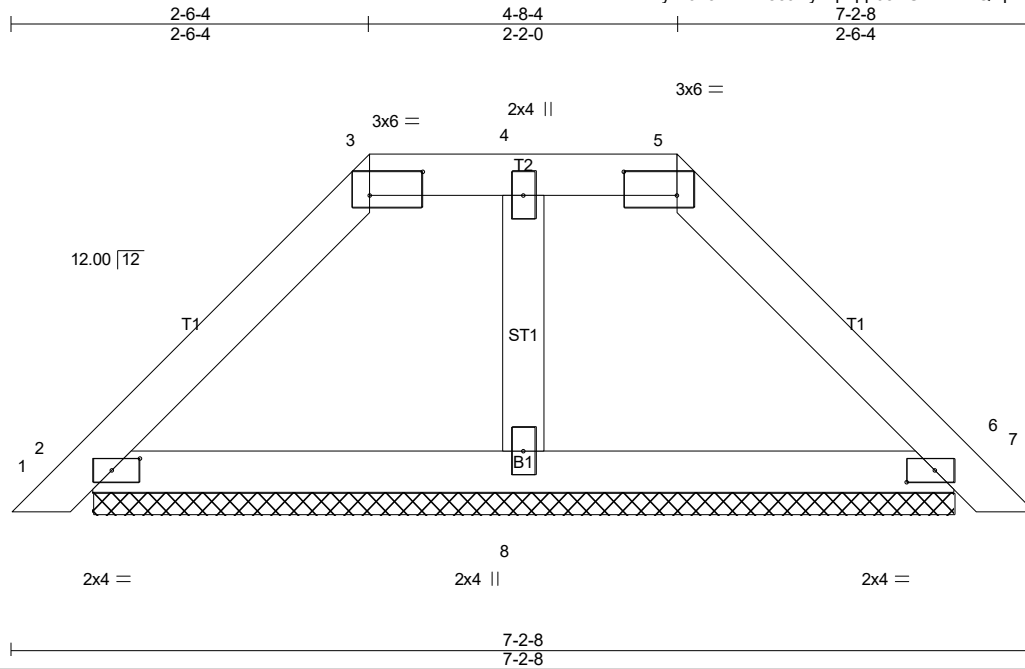
LOAD CASE(S) Standard

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	PB03	Piggyback	1	1	**# 24698**
					Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:31 2020 Page 1
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Scale = 1:16.2

Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [3:0-4-8,0-2-0], [5:0-4-8,0-2-0], [6:0-2-6,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	7	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	0.00	7	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 26 lb	FT = 0%
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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
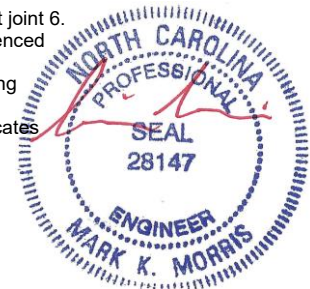
REACTIONS. (lb/size) 2=188/6-0-14 (min. 0-1-8), 6=188/6-0-14 (min. 0-1-8), 8=154/6-0-14 (min. 0-1-8)
Max Horz 2=-46(LC 10)
Max Uplift2=-35(LC 12), 6=-37(LC 13)
Max Grav 2=188(LC 1), 6=188(LC 1), 8=178(LC 5)

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

NOTES- (12-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=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) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 37 lb uplift at joint 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) 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.
13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard

12/9/2020

Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:34 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-Ebl27YxV36oVgF1yhQOghlOdZq8SOHsQtPwzQLyAG3x

-0-10-8 | 12-5-13 | 22-9-3 | 35-3-0 | 36-1-8
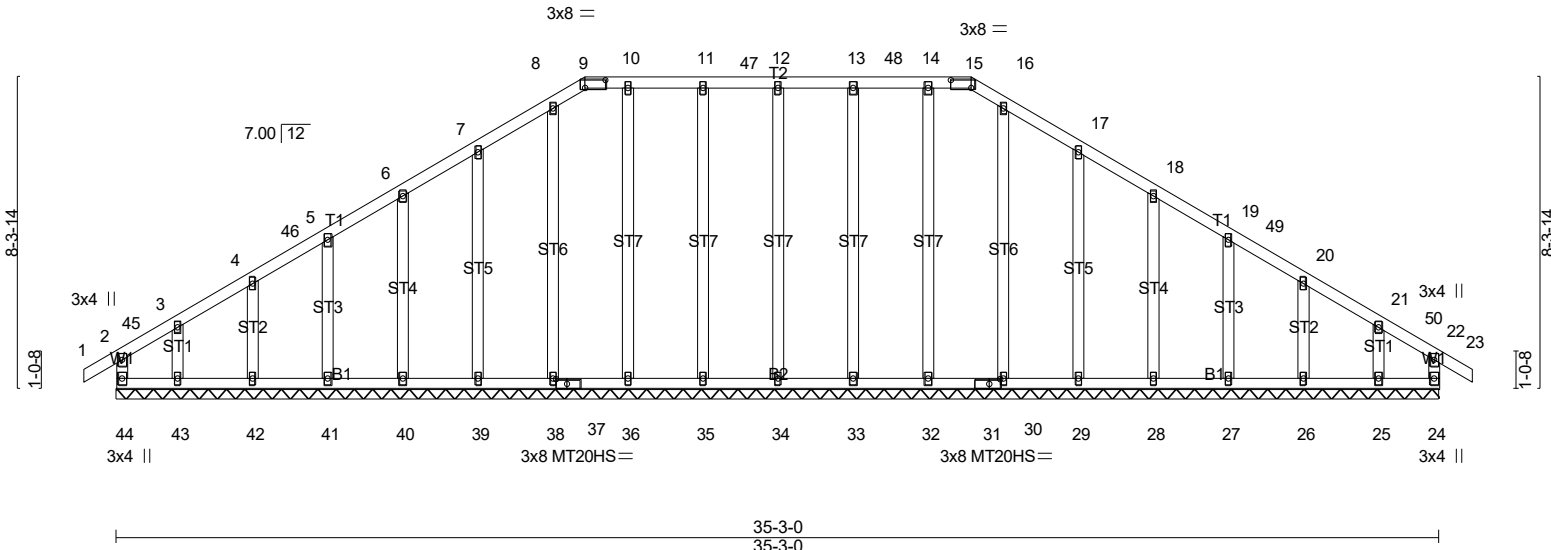0-10-8 | 12-5-13 | 10-3-7 | 12-5-13 | 0-10-8

Scale = 1:61.4

35-3-0
35-3-0

Plate Offsets (X,Y)-- [9:0-6-8,0-2-8], [15:0-6-8,0-2-8], [31:0-3-8,0-1-8], [37:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.00	23	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	23	n/r	80	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	24	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-R							Weight: 251 lb	FT = 0%
BCDL	10.0											

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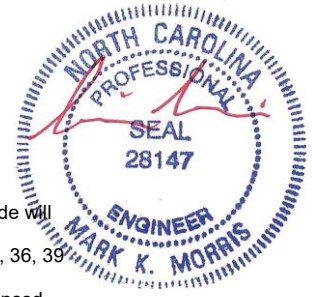OTHERS   2x4 SP No.3

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.

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

REACTIONS.   All bearings 35-3-0.
   (lb) - Max Horz 44=-176(LC 12)
           Max Uplift All uplift 100 lb or less at joint(s) 44, 24, 34, 35, 36, 39, 40, 41, 42, 33, 32, 29, 28, 27, 26, 25
                 except 43=-106(LC 14)
           Max Grav All reactions 250 lb or less at joint(s) 44, 24, 43, 25 except 34=296(LC 44), 35=299(LC 44), 36=298(LC
                 52), 38=297(LC 47), 39=322(LC 47), 40=324(LC 47), 41=275(LC 47), 42=259(LC 39), 33=299(LC 44), 32=296(LC
                 52), 30=288(LC 49), 29=324(LC 49), 28=324(LC 49), 27=274(LC 49), 26=259(LC 39)

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

NOTES- (17-18)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
   Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) All plates are 2x4 MT20 unless otherwise indicated.
10) Gable requires continuous bottom chord bearing.
11) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
12) Gable studs spaced at 2-0-0 oc.
13) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
14) * 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.
15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 44, 24, 34, 35, 36, 39
   , 40, 41, 42, 33, 32, 29, 28, 27, 26, 25 except (jt=lb) 43=106.
16) 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.

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R01	GABLE	1	1	
					Job Reference (optional) # 24698

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:34 2020 Page 2
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-Ebl27YxV36oVgF1yhQOghlOdZq8SOHsQtPwzQLyAG3x

17) 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.

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

LOAD CASE(S) Standard

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R02	Common	2	1	**# 24698**
					Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:36 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-A_tpYEzlaj3DvZBLprR8mATn3ed6s7rjKjP3UEyAG3v

Scale = 1:68.9

-0-10-8 6-0-13 11-10-3 17-7-8 23-4-13 29-2-3 35-3-0 36-1-8
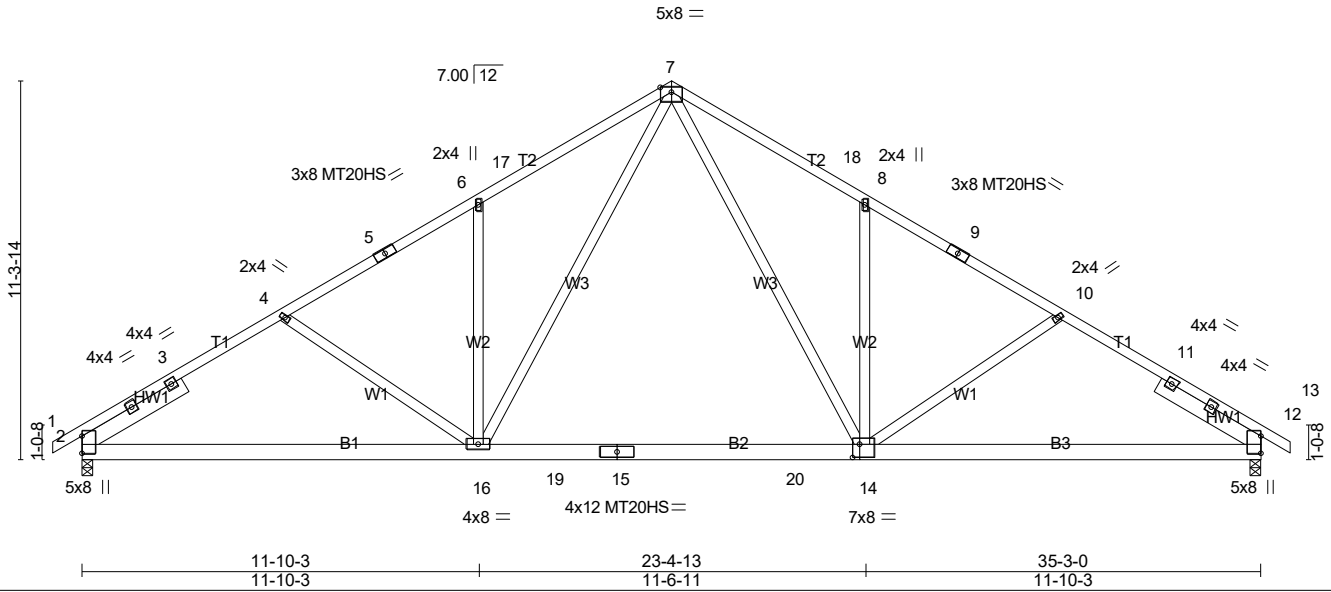0-10-8 6-0-13 5-9-5 5-9-5 5-9-5 5-9-5 6-0-13 0-10-8

7.00 ⌐12

11-10-3
11-10-3

23-4-13
11-6-11

35-3-0
11-10-3

Plate Offsets (X,Y)-- [14:0-2-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.41	14-16	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.56	14-16	>756	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.06	12	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 241 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS   2x4 SP No.3
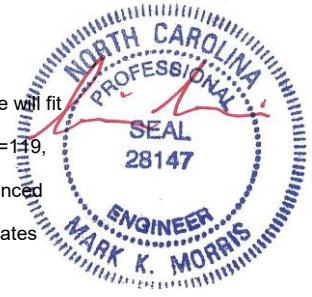SLIDER   Left 2x6 SP No.2 -„ 3-6-11, Right 2x6 SP No.2 -„ 3-6-11

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 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) 2=1463/0-3-8 (min. 0-1-12), 12=1463/0-3-8 (min. 0-1-12)
Max Horz 2=-213(LC 10)
Max Uplift2=-119(LC 14), 12=-119(LC 15)
Max Grav 2=1500(LC 24), 12=1500(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2207/164, 3-4=-2120/194, 4-5=-1956/144, 5-6=-1893/159, 6-17=-2030/262,
7-17=-1947/289, 7-18=-1947/289, 8-18=-2030/262, 8-9=-1893/160, 9-10=-1956/144,
10-11=-2120/194, 11-12=-2207/165
BOT CHORD 2-16=-220/1902, 16-19=-6/1273, 15-19=-6/1273, 15-20=-6/1273, 14-20=-6/1273,
12-14=-78/1744
WEBS 7-14=-191/1047, 8-14=-490/199, 7-16=-191/1047, 6-16=-490/199

NOTES- (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=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) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=119, 12=119.
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.
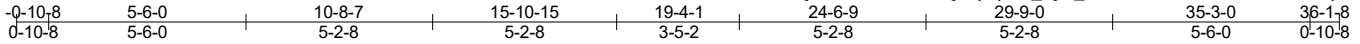
LOAD CASE(S) Standard

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R02A	Hip	1	1	# 24698
					Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:38 2020 Page 1
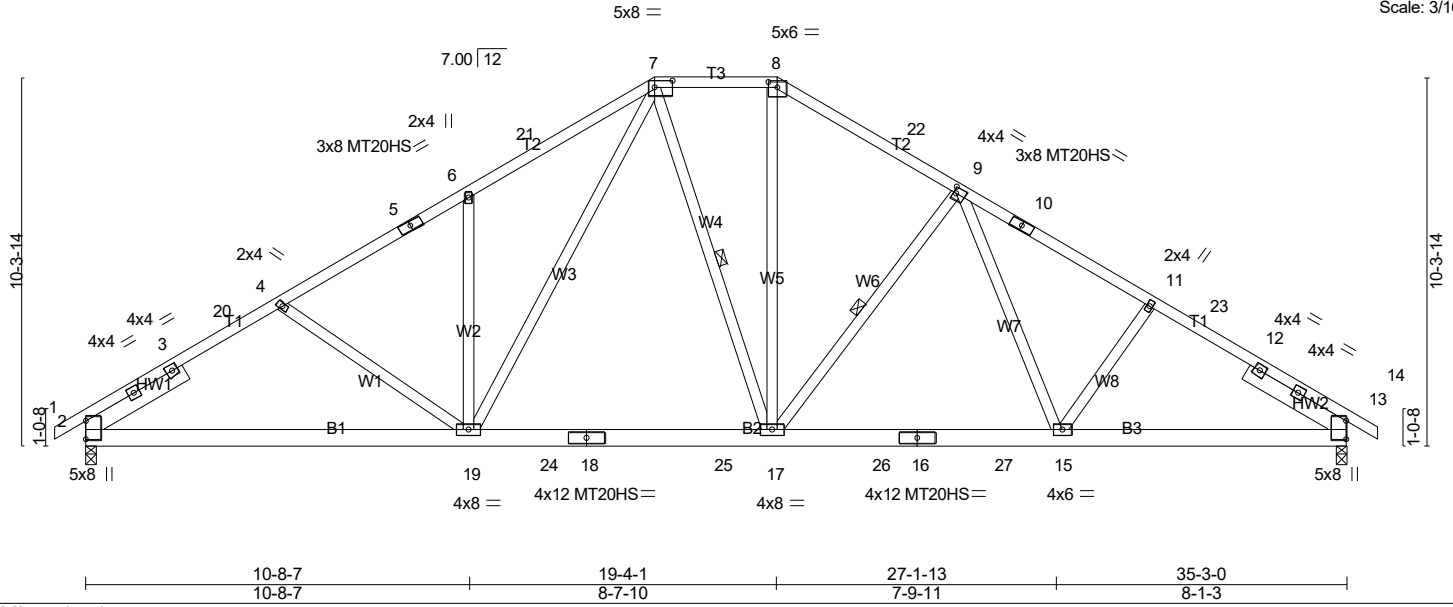ID:MsMZ7fuyNIJd5lEFbR85JwyPq?q-6M_Zyw_?6LJw9sKkwGTcrbYA?SL5K0q0o0uAZ7yAG3t

Scale: 3/16"=1'

Plate Offsets (X,Y)-- [7:0-6-0,0-2-4], [8:0-3-0,0-1-12], [9:0-1-0,0-2-0]

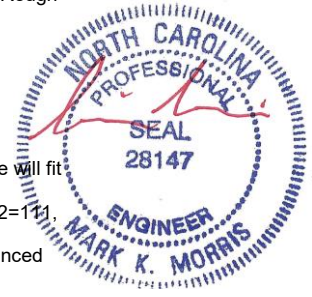| LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.21	17-19	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.29	17-19	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.08	13	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 254 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD   2x4 SP No.2 *Except*
　　　　　　 T1: 2x4 SP SS
BOT CHORD   2x6 SP No.2
WEBS   2x4 SP No.3
SLIDER   Left 2x6 SP No.2 -„ 3-2-11, Right 2x6 SP No.2 -„ 3-2-13

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 2-9-5 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   7-17, 9-17

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

REACTIONS. (lb/size) 2=1463/0-3-8 (min. 0-2-5), 13=1463/0-3-8 (min. 0-2-5)
　　　　　　 Max Horz 2=193(LC 11)
　　　　　　 Max Uplift2=-111(LC 14), 13=-111(LC 15)
　　　　　　 Max Grav 2=1939(LC 39), 13=1939(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2923/152, 3-20=-2829/168, 4-20=-2782/178, 4-5=-2604/135, 5-6=-2379/149,
　　　　　　 6-21=-2681/243, 7-21=-2521/266, 7-8=-1716/169, 8-22=-1975/161, 9-22=-2133/138,
　　　　　　 9-10=-2460/182, 10-11=-2687/168, 11-23=-2794/164, 12-23=-2841/152, 12-13=-2936/137
BOT CHORD   2-19=-200/2358, 19-24=-7/1712, 18-24=-7/1712, 17-25=-7/1712,
　　　　　　 17-26=-1/2148, 16-26=-1/2148, 16-27=-1/2148, 15-27=-1/2148, 13-15=-62/2354
WEBS   6-19=-655/180, 7-19=-178/1071, 7-17=-125/292, 8-17=-48/803, 9-17=-736/175,
　　　　　　 9-15=-33/334

NOTES- (12-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=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) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
　 non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
　 between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=111,
　 13=111.
11) 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.

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R02A	Hip	1	1	# 24698
					Job Reference (optional)	

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:38 2020 Page 2
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-6M_Zyw_?6LJw9sKkwGTcrbYA?SL5K0q0o0uAZ7yAG3t

12) 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.

13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
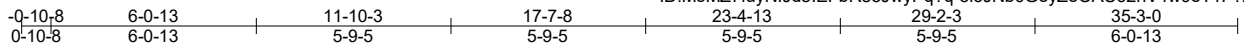
LOAD CASE(S) Standard

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE | 112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R03	COMMON	2	1	Job Reference (optional) # 24698

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:40 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-3l6JNb0GeyZeOAU62hV4w0eT1F?2owoJFKNHd?yAG3r
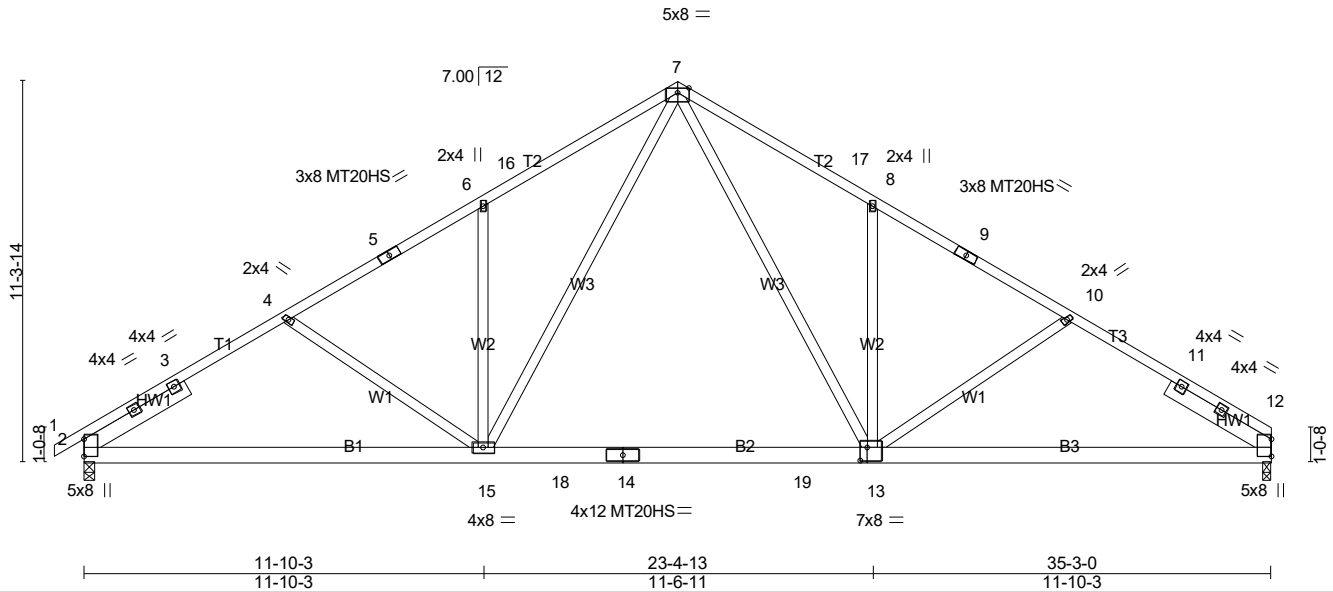
Scale = 1:68.4

Dimensions (top): -0-10-8 | 6-0-13 | 11-10-3 | 17-7-8 | 23-4-13 | 29-2-3 | 35-3-0
0-10-8 | 6-0-13 | 5-9-5 | 5-9-5 | 5-9-5 | 5-9-5 | 6-0-13

7.00 [12]

5x8 =

3x8 MT20HS   2x4 || 16 T2   T2 17 2x4 || 3x8 MT20HS
6 8

2x4   5   W3   W3   9   2x4
4   10

4x4   T1   T3   4x4
4x4   3   11 4x4
HW1   12
1 2   W2   W2   HW1
5x8 || B1   15 18 14 19   B2   13   B3   5x8 ||
4x8 =   4x12 MT20HS =   7x8 =

W1   W1
W2   W2
W3   W3
7-13 8-13 7-15 6-15

Bottom dimensions: 11-10-3 | 23-4-13 | 35-3-0
11-10-3 | 11-6-11 | 11-10-3

Plate Offsets (X,Y)-- [13:0-2-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.41 13-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.56 13-15	>756	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.06 12	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH						Weight: 239 lb	FT = 0%
BCDL	10.0										

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS   2x4 SP No.3
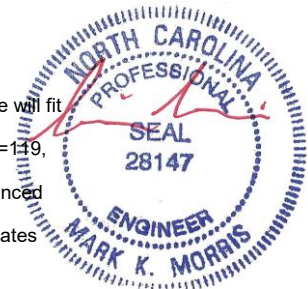SLIDER   Left 2x6 SP No.2 -„ 3-6-11, Right 2x6 SP No.2 -„ 3-6-11

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 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)   2=1463/0-3-8 (min. 0-1-12), 12=1409/0-3-8 (min. 0-1-11)
Max Horz 2=-214(LC 10)
Max Uplift2=-119(LC 14), 12=-105(LC 15)
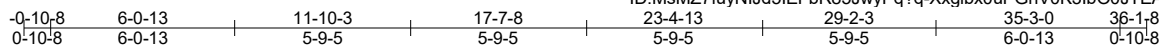Max Grav 2=1500(LC 24), 12=1451(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2208/164, 3-4=-2120/194, 4-5=-1957/144, 5-6=-1893/159, 6-16=-2031/263,
7-16=-1948/289, 7-17=-1949/289, 8-17=-2032/263, 8-9=-1895/160, 9-10=-1974/144,
10-11=-2124/195, 11-12=-2210/166
BOT CHORD   2-15=-218/1904, 15-18=-4/1275, 14-18=-4/1275, 14-19=-4/1275, 13-19=-4/1275,
12-13=-75/1748
WEBS   7-13=-191/1049, 8-13=-489/198, 7-15=-191/1047, 6-15=-490/199

NOTES-   (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=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) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
non-concurrent with other live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=119,
12=105.
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.

LOAD CASE(S) Standard

12/9/2020

North Carolina Professional Engineer Seal — Mark K. Morris, SEAL 28147

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R03A	Common	1	1	
					Job Reference (optional) **# 24698**

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:41 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-Xxgibx0uPGhV0K3IbO0JTEAdIfJKXNuSU_6q9RyAG3q

Scale = 1:75.9

Plate Offsets (X,Y)-- [14:0-4-8,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.58	17	>730	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.83	17	>512	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.06	12	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 257 lb FT = 0%	
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
    T1: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
    B1: 2x6 SP No.1, B3: 2x6 SP DSS, B4: 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -„ 3-6-11, Right 2x6 SP No.2 -„ 3-6-11

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
    6-0-0 oc bracing: 16-19

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

REACTIONS. (lb/size) 2=1571/0-3-8 (min. 0-2-1), 12=1571/0-3-8 (min. 0-2-1)
    Max Horz 2=-213(LC 10)
    Max Uplift2=-65(LC 14), 12=-65(LC 15)
    Max Grav 2=1744(LC 24), 12=1744(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2657/65, 3-4=-2568/95, 4-5=-2429/39, 5-6=-2365/55, 6-21=-2507/156,
    7-21=-2424/183, 7-22=-2418/183, 8-22=-2501/157, 8-9=-2360/55, 9-10=-2424/40,
    10-11=-2562/95, 11-12=-2651/65
BOT CHORD 2-20=-139/2266, 20-23=0/1552, 18-23=0/1552, 15-18=0/1552, 15-24=0/1552, 24-25=0/1552,
    14-25=0/1552, 12-14=0/2103
WEBS 7-16=-130/1311, 14-16=-158/1220, 8-14=-493/196, 19-20=-159/1231, 7-19=-130/1321,
    6-20=-493/196, 15-17=-365/0

NOTES- (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=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) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
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.

12/9/2020

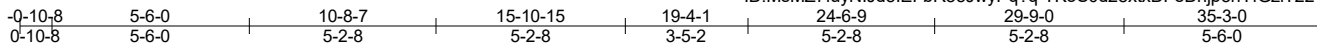| Job | Truss | Truss Type | Qty | Ply | LOT 1162 CARRIAGE CIRCLE | 112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N |
|-----|-------|-----------|-----|-----|---|
| 20-5718-R01 | R03A | Common | 1 | 1 | # 24698 |

Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:42 2020 Page 2
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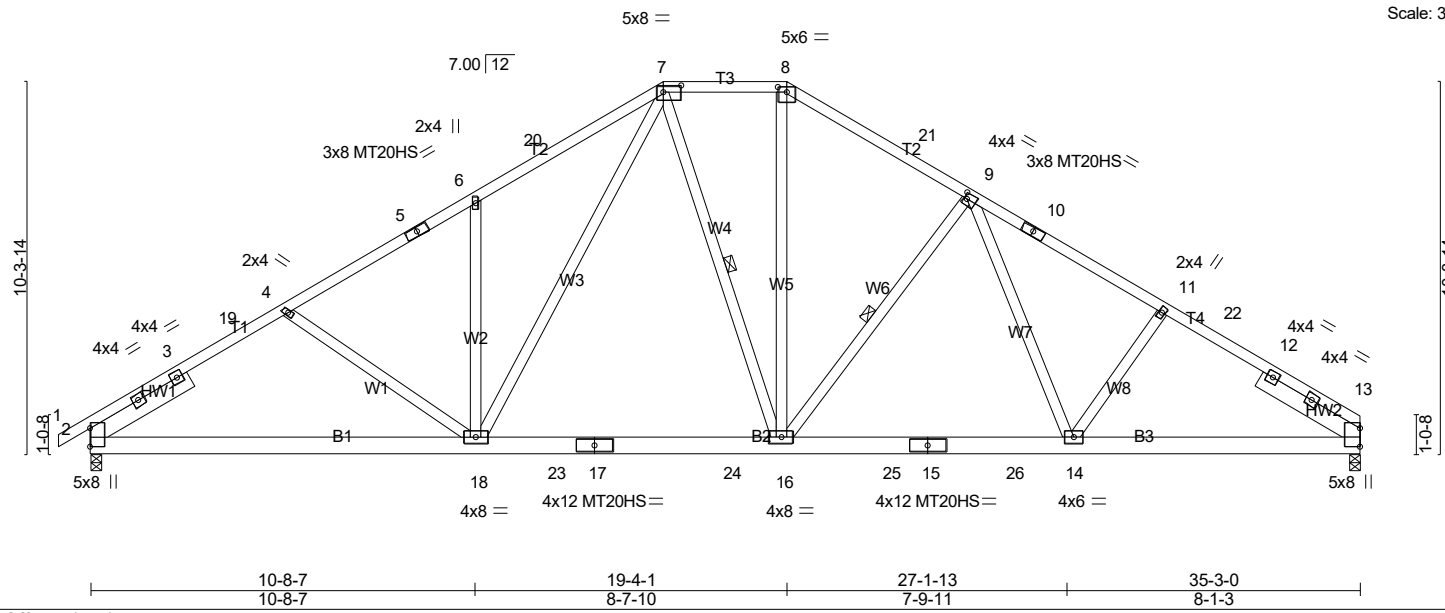
LOAD CASE(S) Standard

12/9/2020

 # 24698

Job Reference (optional)

Scale: 3/16"=1'

Plate Offsets (X,Y)-- [7:0-6-0,0-2-4], [8:0-3-0,0-1-12], [9:0-1-0,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.21	16-18	>999	240		MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.30	16-18	>999	180		MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.08	13	n/a	n/a			
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH								Weight: 253 lb	FT = 0%
BCDL	10.0												

LUMBER-
TOP CHORD   2x4 SP No.2 *Except*
            T1,T4: 2x4 SP No.1
BOT CHORD   2x6 SP No.2
WEBS   2x4 SP No.3
SLIDER   Left 2x6 SP No.2 -„ 3-2-11, Right 2x6 SP No.2 -„ 3-2-13
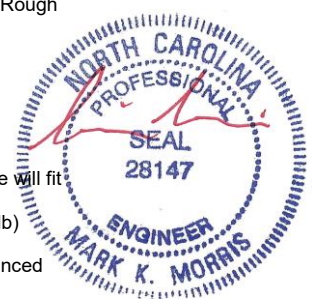
BRACING-
TOP CHORD   Structural wood sheathing directly applied.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   7-16, 9-16

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

REACTIONS.   (lb/size) 2=1463/0-3-8 (min. 0-2-5), 13=1409/0-3-8 (min. 0-2-4)
             Max Horz 2=-195(LC 10)
             Max Uplift2=-111(LC 14), 13=-97(LC 15)
             Max Grav 2=1940(LC 39), 13=1886(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2924/152, 3-19=-2831/168, 4-19=-2784/178, 4-5=-2605/135, 5-6=-2380/149,
            6-20=-2683/243, 7-20=-2522/267, 7-8=-1717/169, 8-21=-1977/161, 9-21=-2135/138,
            9-10=-2463/183, 10-11=-2690/169, 11-22=-2798/166, 12-22=-2845/153, 12-13=-2938/148
BOT CHORD   2-18=-198/2361, 18-23=-5/1714, 17-23=-5/1714, 16-24=-5/1714,
            16-25=0/2151, 15-25=0/2151, 15-26=0/2151, 14-26=0/2151, 13-14=-59/2360
WEBS   6-18=-657/180, 7-18=-179/1071, 7-16=-123/293, 8-16=-49/805, 9-16=-738/176,
            9-14=-34/335

NOTES-   (12-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=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) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb)
    2=111.
11) 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.

(Engineer seal: NORTH CAROLINA PROFESSIONAL SEAL 28147 ENGINEER MARK K. MORRIS)

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R03B	HIP	1	1	# 24698
					Job Reference (optional)	

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:44 2020 Page 2
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-xWMqDz3miB34tnotHXa05so8SsOHkjHvAyLUmmyAG3n

12) 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.

13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
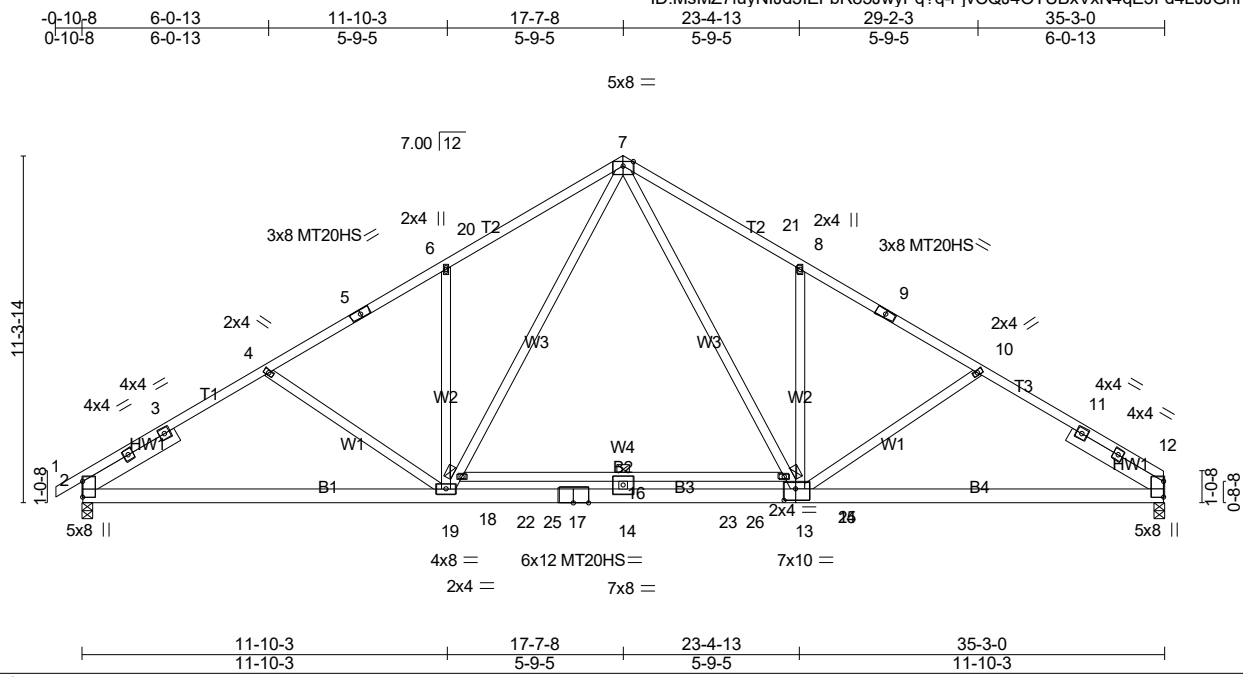
LOAD CASE(S) Standard

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R04	COMMON	5	1	
					Job Reference (optional) # 24698

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:45 2020 Page 1
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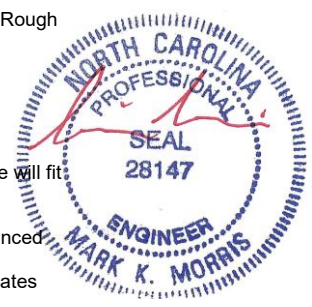
Scale = 1:75.1

7.00 ⌐12

Plate Offsets (X,Y)-- [13:0-4-8,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.58	16	>730	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.83	16	>512	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.06	12	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 255 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD   2x4 SP No.2 *Except*
                    T1,T3: 2x4 SP No.1
BOT CHORD   2x4 SP No.2 *Except*
                    B1: 2x6 SP No.1, B3: 2x6 SP DSS, B4: 2x6 SP No.2
WEBS   2x4 SP No.3
SLIDER   Left 2x6 SP No.2 -„ 3-6-11, Right 2x6 SP No.2 -„ 3-6-11

BRACING-
TOP CHORD   Structural wood sheathing directly applied.
BOT CHORD   Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
                    6-0-0 oc bracing: 15-18

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

REACTIONS.   (lb/size)   2=1572/0-3-8 (min. 0-2-1), 12=1518/0-3-8 (min. 0-2-0)
                    Max Horz 2=-214(LC 10)
                    Max Uplift2=-65(LC 14), 12=-51(LC 15)
                    Max Grav 2=1744(LC 24), 12=1695(LC 25)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2657/65, 3-4=-2568/95, 4-5=-2430/39, 5-6=-2366/55, 6-20=-2508/156,
                    7-20=-2424/183, 7-21=-2421/183, 8-21=-2504/157, 8-9=-2362/56, 9-10=-2426/40,
                    10-11=-2566/96, 11-12=-2655/66
BOT CHORD   2-19=-138/2267, 19-22=0/1554, 17-22=0/1554, 14-17=0/1554, 14-23=0/1554, 23-24=0/1554,
                    13-24=0/1554, 12-13=0/2107
WEBS   7-15=-130/1313, 13-15=-159/1222, 8-13=-492/196, 18-19=-159/1231, 7-18=-130/1321,
                    6-19=-493/196, 14-16=-365/0

NOTES-   (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=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) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
    non-concurrent with other live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
    between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
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.

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R04	COMMON	5	1	**# 24698**

Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:45 2020 Page 2
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-PjvCQJ4OTUBxVxN4qE5Fd4LJJGhFTBt2Pc42IDyAG3m

LOAD CASE(S) Standard

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R05	GABLE	1	1	# 24698

Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:48 2020 Page 1
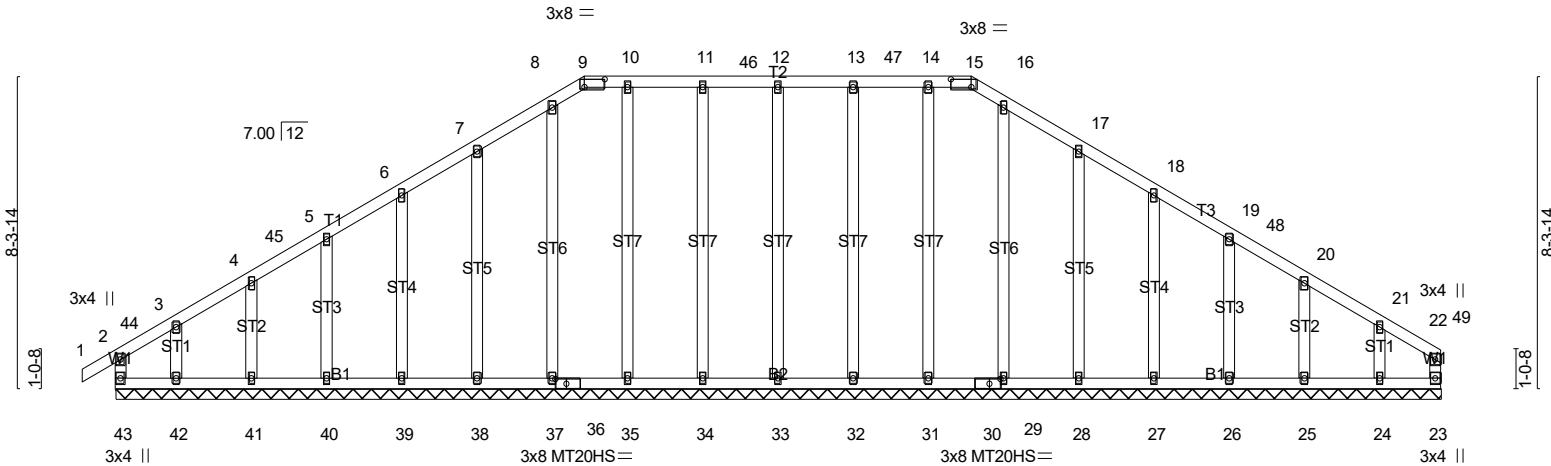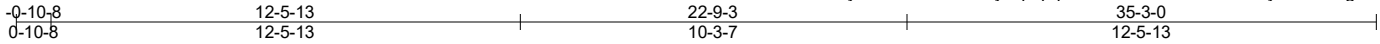ID:MsMZ7fuyNlJd5lEFbR85JwyPq?q-qHbL3L6HmPZWMP5fWMfyFiz00UvlgcKU5aJivXyAG3j

Scale = 1:61.3

Plate Offsets (X,Y)-- [9:0-6-8,0-2-8], [15:0-6-8,0-2-8], [30:0-3-8,0-1-8], [36:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.00	1	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	1	n/r	80	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	23	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-R							Weight: 250 lb	FT = 0%
BCDL	10.0											

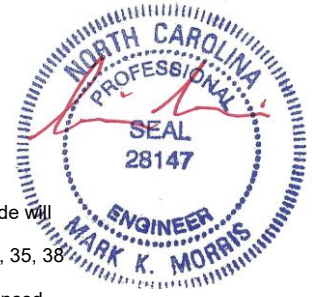| LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

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

REACTIONS.   All bearings 35-3-0.
   (lb) - Max Horz 43=172(LC 11)
        Max Uplift All uplift 100 lb or less at joint(s) 43, 23, 33, 34, 35, 38, 39, 40, 41, 32, 31, 28, 27, 26, 25, 24
              except 42=-107(LC 14)
        Max Grav   All reactions 250 lb or less at joint(s) 43, 23, 42, 24 except 33=296(LC 44), 34=299(LC 44), 35=297(LC
              52), 37=296(LC 47), 38=323(LC 47), 39=324(LC 47), 40=275(LC 47), 41=259(LC 39), 32=299(LC 44), 31=295(LC
              52), 29=286(LC 49), 28=325(LC 49), 27=324(LC 49), 26=275(LC 49), 25=254(LC 39)

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

NOTES- (17-18)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
   Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) All plates are 2x4 MT20 unless otherwise indicated.
10) Gable requires continuous bottom chord bearing.
11) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
12) Gable studs spaced at 2-0-0 oc.
13) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
14) * 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.
15) Provide mechanical connection (by others) to bearing plate capable of withstanding 100 lb uplift at joint(s) 43, 23, 33, 34, 35, 38
    , 39, 40, 41, 32, 31, 28, 27, 26, 25, 24 except (jt=lb) 42=107.
16) 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.

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R05	GABLE	1	1	# 24698

Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:50 2020 Page 2
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-mgj5U07XH1qDbiF1dnhQK72MVHbD8WqnYuop_QyAG3h

17) 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.

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

LOAD CASE(S) Standard

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R06	Common Girder	1	**2**	**# 24698**
					Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:51 2020 Page 1
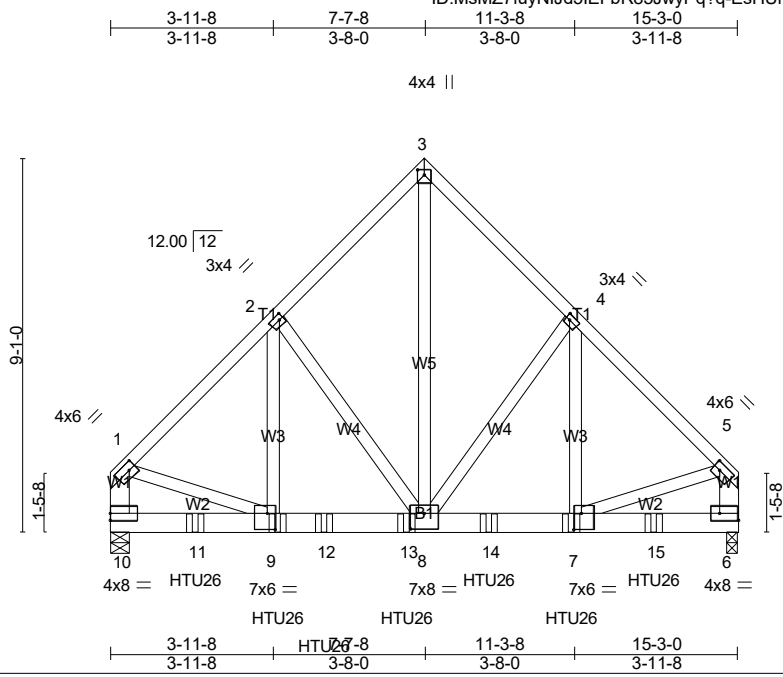ID:MsMZ7fuyNlJd5lEFbR85JwyPq?q-EsHUhM892Ky4DsqDBVCftLbUzhlJtrtwnYXMWsyAG3g

Plate Offsets (X,Y)-- [1:0-2-0,0-2-0], [2:0-1-4,0-1-8], [3:0-1-8,0-2-0], [4:0-1-4,0-1-8], [5:0-2-0,0-2-0], [6:Edge,0-2-0], [7:0-2-4,0-4-12], [8:0-4-0,0-4-8], [9:0-2-4,0-4-12]

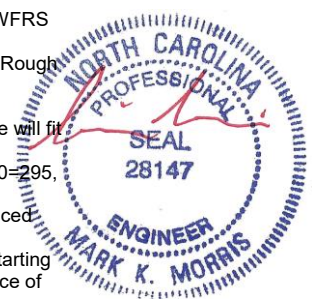| LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.06	8-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.11	8-9	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.02	6	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 255 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x6 SP No.2
WEBS   2x4 SP No.3 *Except*
            W5: 2x4 SP No.2, W1: 2x6 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-0-12 oc purlins, except
            end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 10=5942/0-5-8 (min. 0-3-10), 6=5877/0-3-8 (min. 0-3-7)
            Max Horz 10=-180(LC 8)
            Max Uplift10=-295(LC 11), 6=-357(LC 10)
            Max Grav 10=6189(LC 4), 6=5877(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-2=-5817/320, 2-3=-4158/333, 3-4=-4158/333, 4-5=-5314/366, 1-10=-5383/280,
            5-6=-4889/321
BOT CHORD   10-11=-187/535, 9-11=-187/535, 9-12=-243/4057, 12-13=-243/4057, 8-13=-243/4057,
            8-14=-200/3702, 7-14=-200/3702, 7-15=-51/518, 6-15=-51/518
WEBS   3-8=-389/5602, 4-8=-1435/243, 4-7=-160/1818, 2-8=-1943/188, 2-9=-87/2583,
            1-9=-159/3812, 5-7=-185/3379

NOTES- (12-13)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply
   connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=295,
   6=357.
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) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting
    at 2-0-12 from the left end to 13-2-4 to connect truss(es) R04 (1 ply 2x6 SP), R03 (1 ply 2x6 SP), R03B (1 ply 2x6 SP) to back face of
    bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE | 112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R06	Common Girder	1	**2**	*# 24698*
					Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:52 2020 Page 2
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-i3qsui9npe4xq0PQlCjuQY7fj55Ycl740CHw2JyAG3f

12) 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.

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

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
          Vert: 1-3=-60, 3-5=-60, 6-10=-20
   Concentrated Loads (lb)
          Vert: 7=-1389(B) 9=-1498(B) 11=-1498(B) 12=-1498(B) 13=-1498(B) 14=-1389(B) 15=-1866(B)

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE | 112 SPRUCE HOLLOW CIRCLE SPRING LAKE
20-5718-R01	R07	Common	5	1	# 24698
					Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina   8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Dec 14 11:32:05 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-HL4?a5bIYNx2T_thdV2gZj81amqVqmitNOqO0?y94Fu
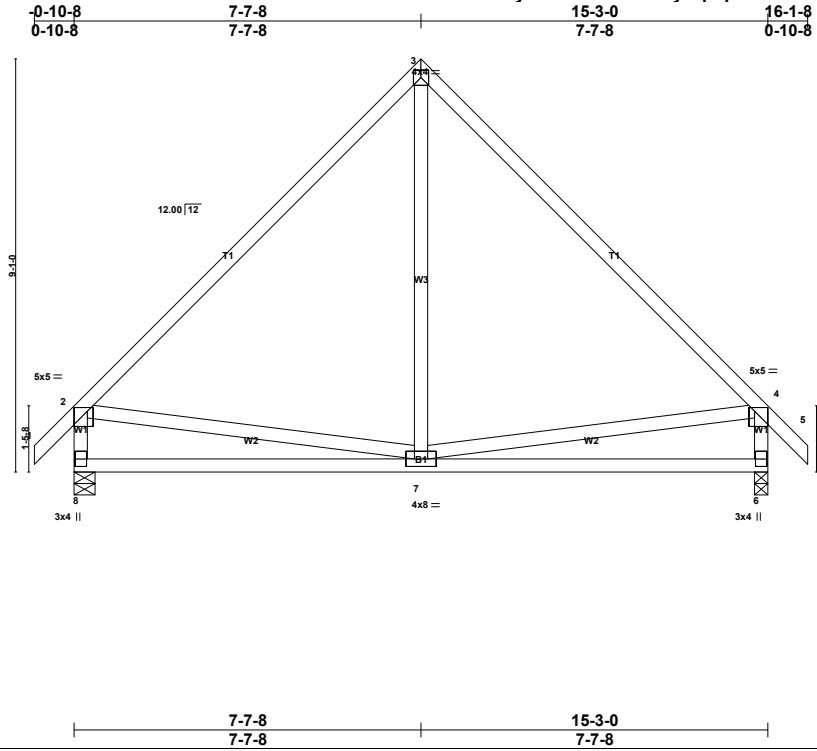
-0-10-8	7-7-8		15-3-0	16-1-8
0-10-8	7-7-8		7-7-8	0-10-8

Scale = 1:50.6

	7-7-8	15-3-0
	7-7-8	7-7-8

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

LOADING(psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.06	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.13	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 96 lb	FT = 0%

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

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 5-9-2 oc purlins,
except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

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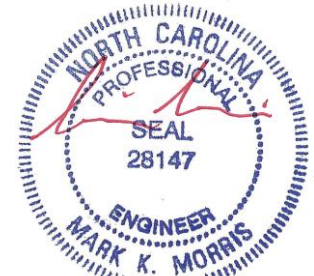with Stabilizer Installation guide.

REACTIONS. (lb/size)
8   =   660/0-5-8
6   =   660/0-3-8
Max Horz
8   =   -202(LC 10)
Max Uplift
8   =   -40(LC 13)
6   =   -40(LC 12)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when
shown.
TOP CHORD
2-3=-572/105, 3-4=-572/105, 2-8=-593/71,
4-6=-593/71
BOT CHORD
7-8=-261/419, 6-7=-179/270
WEBS
3-7=0/311, 2-7=-142/303, 4-7=-146/304

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this
design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust)
Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B;
Enclosed; MWFRS (envelope) gable end zone and C-C
Exterior(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) 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) 8,
6.
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

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R07A	Hip	1	1	**# 24698**
					Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:53 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-AFOE62AQayCoSA_cIwE7ymgpVVbTLw9DFs1TblyAG3e
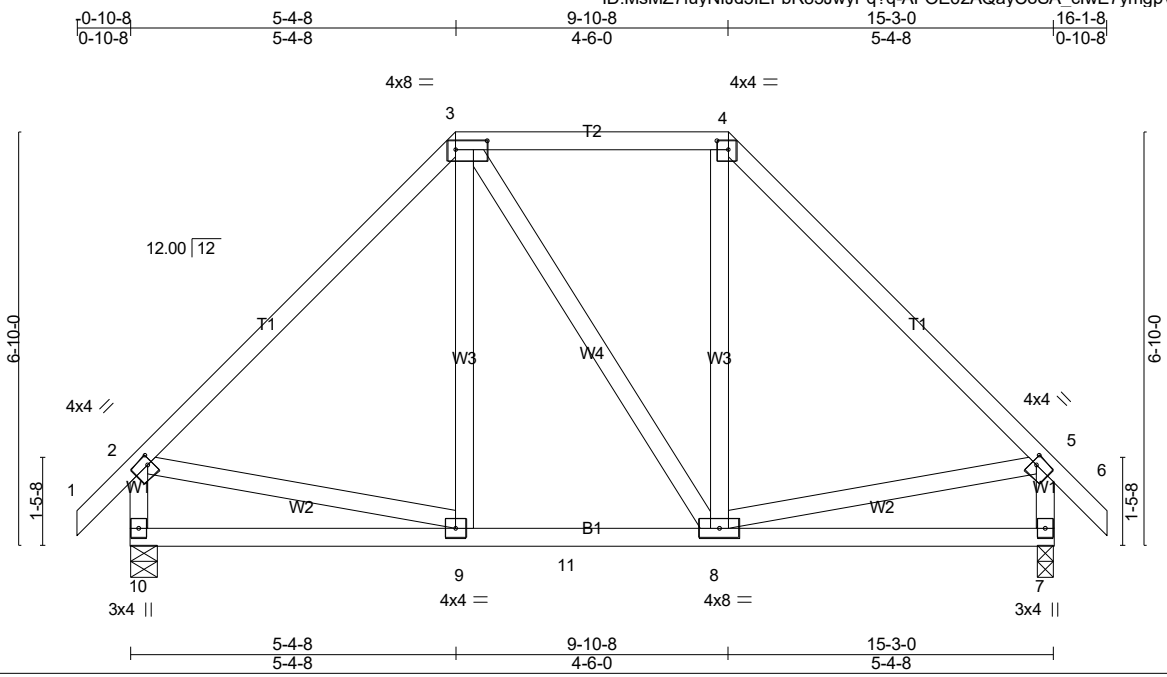
Scale = 1:38.0

Plate Offsets (X,Y)-- [2:0-1-0,0-1-12], [3:0-6-4,0-1-12], [4:0-2-4,0-1-12], [5:0-1-0,0-1-12]

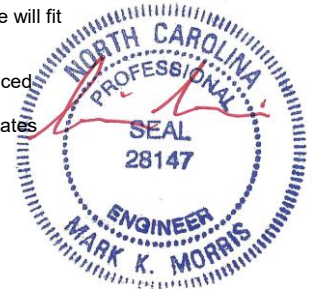| LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.02	9-10	>999	240	MT20	244/190
Snow (Pf) 20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	9-10	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	7	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 105 lb	FT = 0%
BCDL 10.0											

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 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) 10=660/0-5-8 (min. 0-1-8), 7=660/0-3-8 (min. 0-1-8)
Max Horz 10=-158(LC 10)
Max Uplift10=-37(LC 12), 7=-37(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-581/59, 3-4=-326/92, 4-5=-581/58, 2-10=-607/61, 5-7=-607/60
BOT CHORD   9-11=-54/365, 8-11=-54/365
WEBS   2-9=-51/300, 5-8=-53/288

NOTES- (10-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C 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) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7.
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

12/9/2020

Job	Truss	Truss Type		Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE
20-5718-R01	R07B	Hip		1	1	# 24698
						Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.330 s Mar 10 2020 MiTek Industries, Inc. Mon Dec 14 11:32:11 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-6VSGr8gW8DhCBvLr_m94p_O3WBs8EUhIlKHjEfy94Fo

-0-10-8	6-6-8	8-8-8	15-3-0	16-1-8
0-10-8	6-6-8	2-2-0	6-6-8	0-10-8
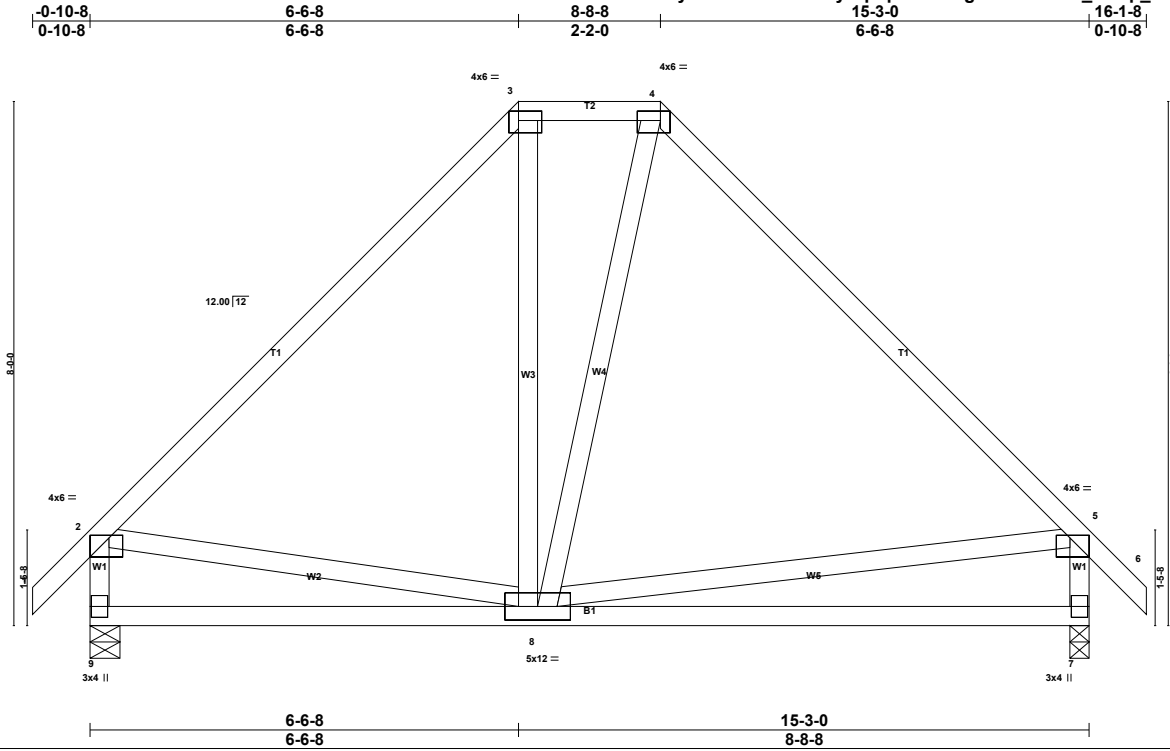
Scale = 1:35.2

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-4-4,0-1-12], [4:0-4-4,0-1-12], [5:0-3-8,Edge]

LOADING(psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.11	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.21	7-8	>840	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 105 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 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)
9   =   660/0-5-8
7   =   660/0-3-8
Max Horz
9   =   -181(LC 10)
Max Uplift
9   =   -39(LC 12)
7   =   -39(LC 13)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-584/77, 3-4=-309/104, 4-5=-568/84,
2-9=-605/64, 5-7=-584/75
BOT CHORD
8-9=-205/315

NOTES-   (10-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C 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) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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

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

NORTH CAROLINA
PROFESSIONAL
SEAL
28147
ENGINEER
MARK K. MORRIS

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R08	Hip Supported Gable	1	1	
					Job Reference (optional) **# 24698**

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:56 2020 Page 1
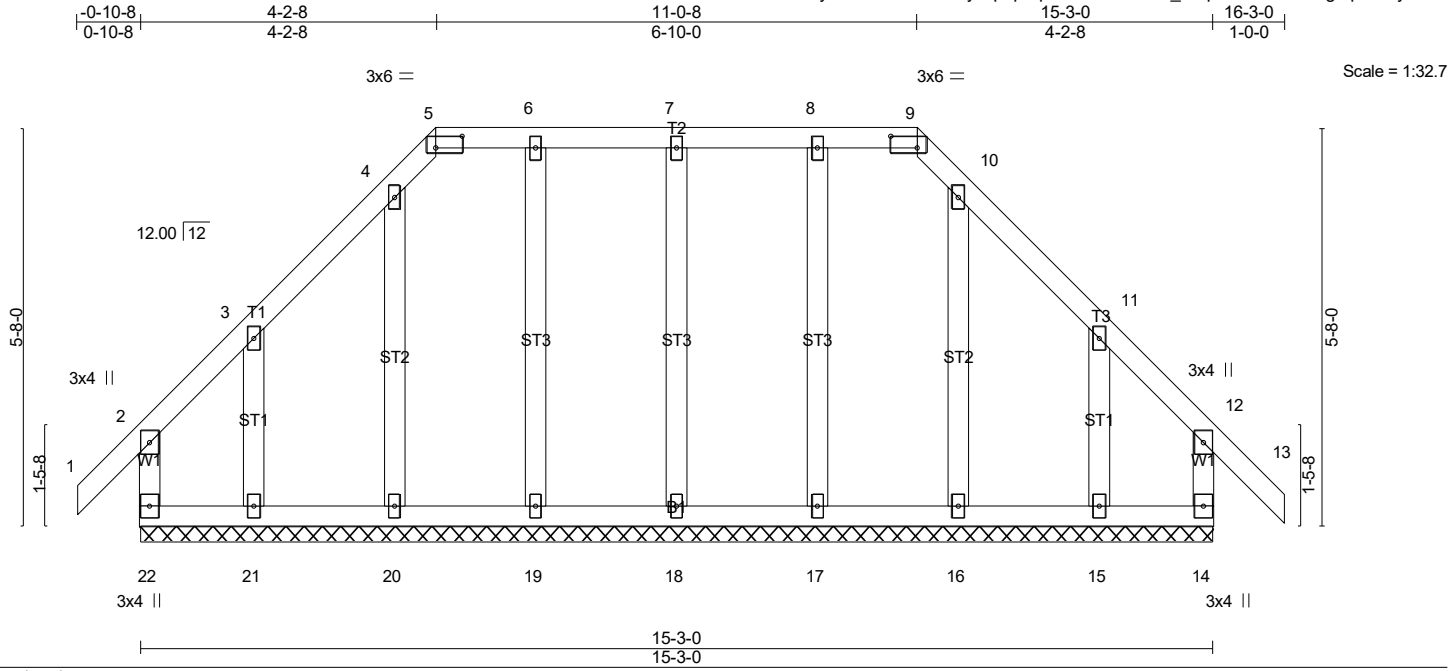ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-bq4Mk4ClttaNJdiB_2oqaOlOZieZYHNgxqF7B4yAG3b

Plate Offsets (X,Y)-- [5:0-4-8,0-2-0], [9:0-4-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.00	13	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	13	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.00	14	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-R								
BCDL	10.0										Weight: 102 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 6-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

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

REACTIONS.   All bearings 15-3-0.
(lb) - Max Horz 22=-138(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 22, 14, 18, 19, 17 except 21=-136(LC 12), 15=-133(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 22, 14, 18, 19, 20, 21, 17, 16, 15
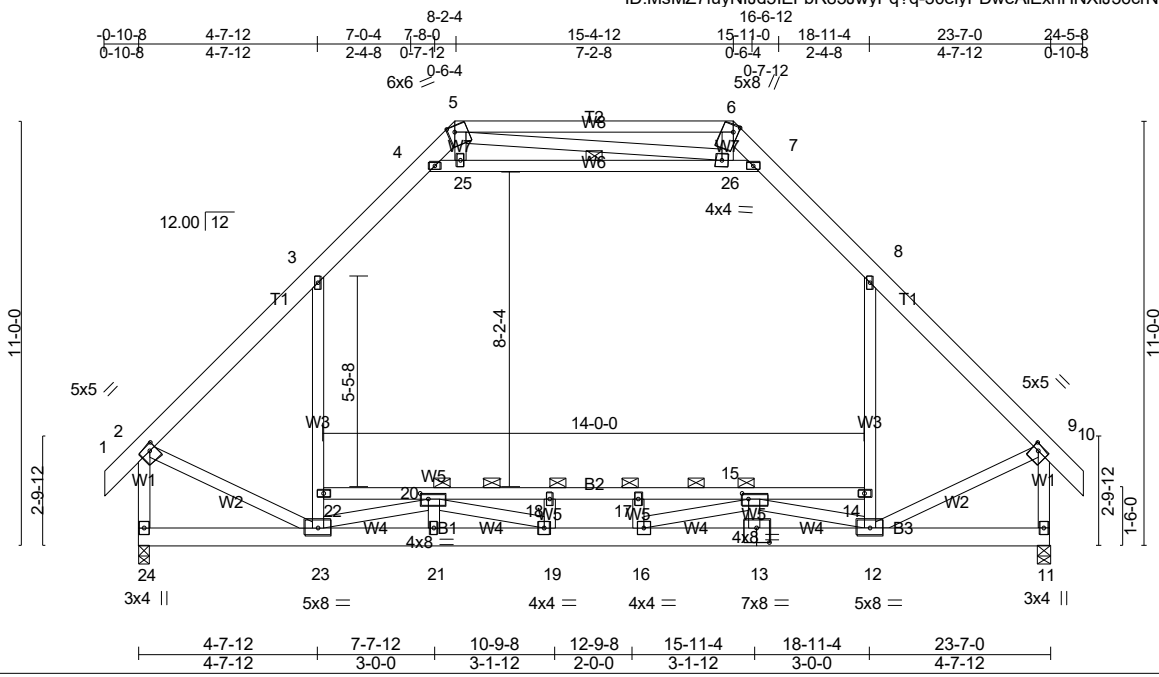
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES- (15-16)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=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) 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) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 14, 18, 19, 17 except (jt=lb) 21=136, 15=133.
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) 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

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R09	Attic	9	1	
					Job Reference (optional) # 24698

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:16:57 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-30elyPDweAiExnHNXIJ36crNT6plHaOp9U?hkWyAG3a

Scale = 1:59.6

Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [5:0-2-0,0-1-12], [6:0-2-0,0-1-8], [9:0-2-0,0-1-12], [13:0-4-0,0-4-8], [15:0-2-0,0-1-12], [20:0-2-8,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.23	17-18	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.36	17-18	>777	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	11	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH		Attic	-0.13	14-22	1280	360	Weight: 234 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
   T2: 2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except*
   B2: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
   W3,W6: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except
   end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
   2-9-0 oc bracing: 18-20, 15-17
   3-0-0 oc bracing: 17-18
   6-0-0 oc bracing: 20-22, 14-15
WEBS 1 Row at midpt 4-7
JOINTS 1 Brace at Jt(s): 17, 18, 20, 15

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

REACTIONS. (lb/size) 24=1207/0-3-8 (min. 0-1-12), 11=1207/0-3-8 (min. 0-1-12)
   Max Horz 24=-250(LC 10)
   Max Grav 24=1510(LC 3), 11=1510(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1287/0, 3-4=-858/68, 4-5=-387/197, 5-6=-216/602, 6-7=-369/281, 7-8=-859/69,
   8-9=-1286/0, 2-24=-1476/0, 9-11=-1474/0
BOT CHORD 23-24=-232/271, 21-23=0/2378, 19-21=0/2378, 16-19=0/3127, 13-16=0/2349, 12-13=0/2349,
   18-20=-2444/0, 17-18=-2444/0, 15-17=-2444/0
WEBS 22-23=-30/458, 3-22=-1/584, 12-14=-32/456, 8-14=-4/582, 4-25=-1228/170,
   25-26=-1210/175, 7-26=-1308/183, 2-23=-10/875, 9-12=-11/880, 20-23=-1785/0,
   19-20=-79/864, 15-16=-85/872, 12-15=-1784/0

NOTES- (13-14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=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) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-25, 25-26, 7-26
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 20-22, 18-20, 17-18, 15-17,
   14-15

12/9/2020

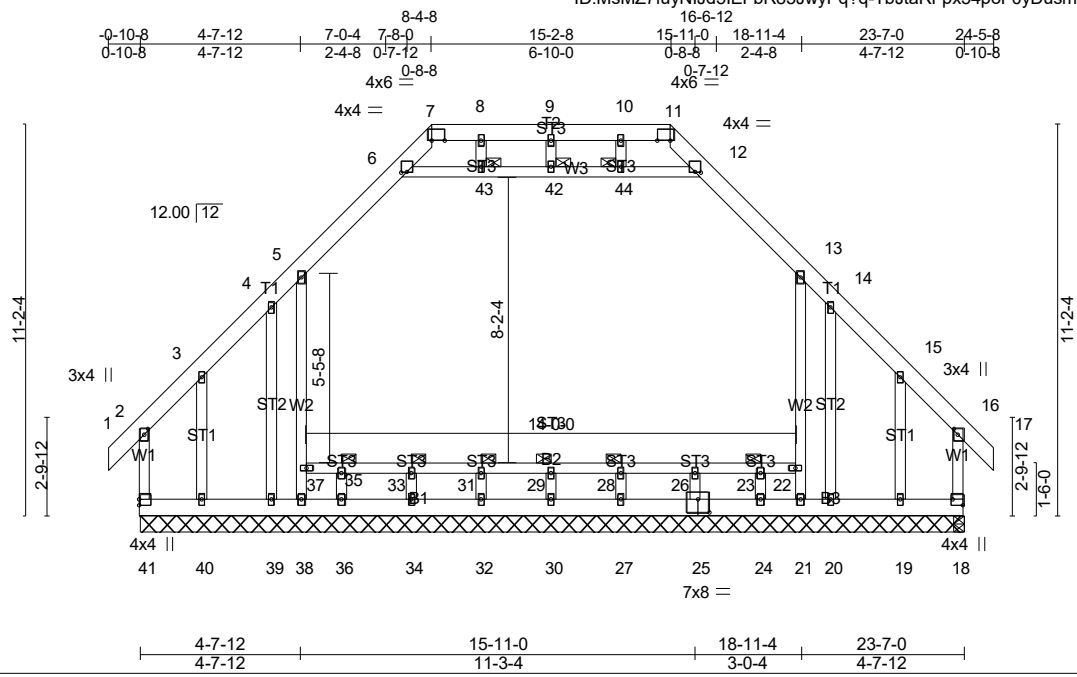| Job | Truss | Truss Type | Qty | Ply | LOT 1162 CARRIAGE CIRCLE | 112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N |
|---|---|---|---|---|---|
| 20-5718-R01 | R09 | Attic | 9 | 1 | # 24698 |

NOTES- (13-14)

11) 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.

12) Attic room checked for L/360 deflection.

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

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R10	GABLE	1	1	
					Job Reference (optional) **# 24698**

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:17:00 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-TbJtaRFpx54poF0yDusmkETyxJ_qU0MFsSDLKryAG3X

Scale = 1:66.0

Plate Offsets (X,Y)-- [2:0-2-0,0-1-4], [6:0-2-0,0-0-4], [7:0-4-8,0-0-0], [11:0-4-8,0-0-0], [12:0-2-0,0-0-4], [16:0-2-0,0-1-4], [18:Edge,0-3-8], [25:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.00	13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.01	13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	-0.00	18	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 232 lb	FT = 0%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
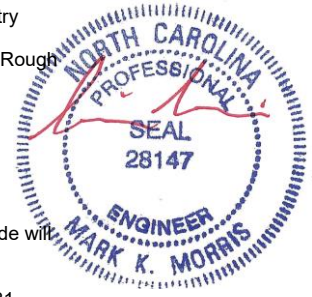   B2: 2x4 SP No.3
WEBS 2x4 SP No.2 *Except*
    W1: 2x4 SP No.3
OTHERS 2x4 SP No.3

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.
JOINTS 1 Brace at Jt(s): 42, 29, 43, 31, 35, 44, 28, 23, 33

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

REACTIONS. All bearings 23-7-0.
  (lb) - Max Horz 41=-251(LC 10)
    Max Uplift All uplift 100 lb or less at joint(s) 38, 21 except 41=-227(LC 8), 18=-222(LC 9), 39=-119(LC 13),
      40=-262(LC 12), 20=-119(LC 12), 19=-260(LC 13)
    Max Grav All reactions 250 lb or less at joint(s) 30, 32, 36, 39, 40, 24, 20, 19, 25, 34 except 41=526(LC 26),
      38=733(LC 31), 21=736(LC 32), 18=516(LC 21), 18=469(LC 1), 27=253(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-335/176, 5-6=-439/122, 6-7=-725/85, 7-8=-750/58, 8-9=-750/58, 9-10=-750/58,
    10-11=-750/58, 11-12=-725/87, 12-13=-439/122, 15-16=-328/172, 2-41=-367/145,
    16-18=-360/141
WEBS 37-38=-743/75, 5-37=-740/79, 21-22=-744/67, 13-22=-740/75, 6-43=0/630, 42-43=0/630,
    42-44=0/630, 12-44=0/630

NOTES- (16-17)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 2x4 MT20 unless otherwise indicated.
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) Ceiling dead load (5.0 psf) on member(s). 5-6, 12-13, 6-43, 42-43, 42-44, 12-44
12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 35-37, 33-35, 31-33, 29-31, 28-29, 26-28, 23-26, 22-23

NORTH CAROLINA PROFESSIONAL SEAL 28147 ENGINEER MARK K. MORRIS

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE | 112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R10	GABLE	1	1	# 24698

Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:17:00 2020 Page 2
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-TbJtaRFpx54poF0yDusmkETyxJ_qU0MFsSDLKryAG3X

NOTES-   (16-17)

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 38, 21 except (jt=lb) 41=227, 18=222, 39=119, 40=262, 20=119, 19=260.

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) Attic room checked for L/360 deflection.

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

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	R11	Monopitch Supported Gable	1	1	
					Job Reference (optional) # 24698

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:17:01 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-xotFnnGRiPCgPPb8mbN?HS?FqjL0DXkP45zutHyAG3W
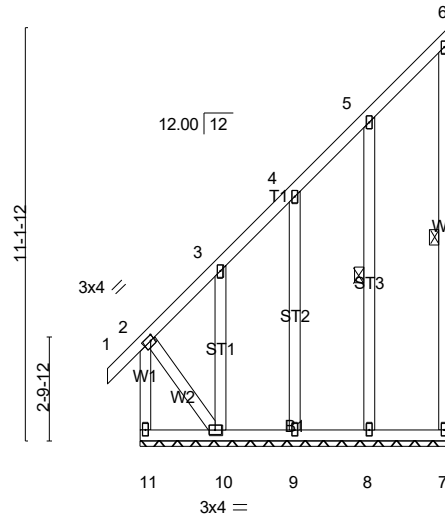
-0-10-8   8-4-0
0-10-8   8-4-0

Scale = 1:62.0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	0.00	1	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.00	1	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.00	7	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							Weight: 84 lb	FT = 0%
BCDL	10.0											

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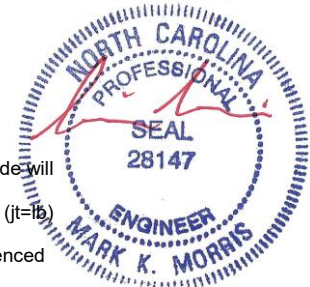OTHERS   2x4 SP No.3

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, 5-8

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=245(LC 12)
          Max Uplift All uplift 100 lb or less at joint(s) 7, 9, 8 except 11=-159(LC 10), 10=-406(LC 12)
          Max Grav All reactions 250 lb or less at joint(s) 7 except 11=514(LC 12), 9=262(LC 24), 10=335(LC 20), 8=295(LC
                   20)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-11=-506/391, 2-3=-307/254
BOT CHORD   10-11=-258/200
WEBS   2-10=-327/422

NOTES-   (13-14)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(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, 9, 8 except (jt=lb)
    11=159, 10=406.
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.

12/9/2020

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:17:01 2020 Page 2
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-xotFnnGRiPCgPPb8mbN?HS?FqjL0DXkP45zutHyAG3W

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.
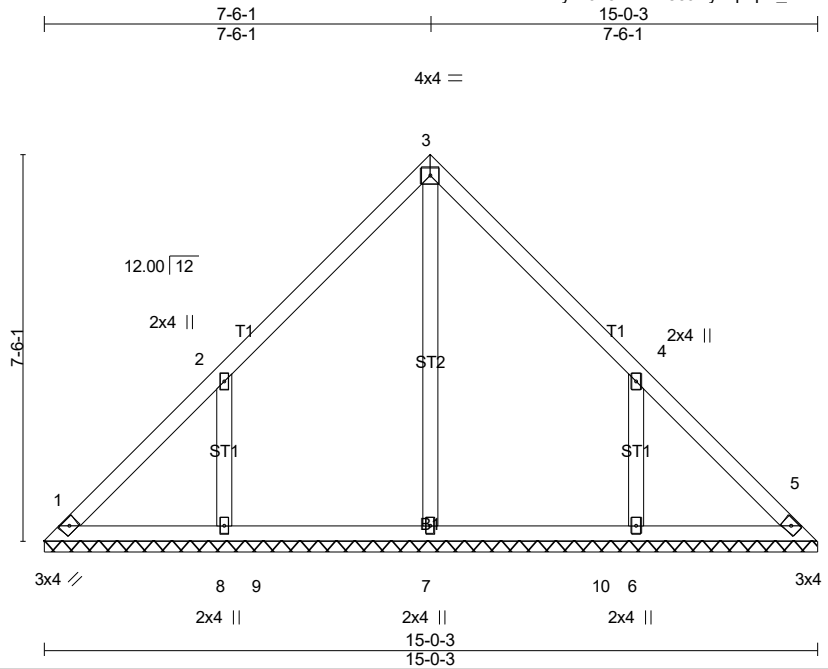
LOAD CASE(S) Standard

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	VT01	Valley	1	1	# 24698

Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:17:02 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-P_Re?7H3TjKX1YALKlvEpfYPe7cWyznYJliRPkyAG3V

7-6-1 | 15-0-3
7-6-1 | 7-6-1

4x4 ═

Scale = 1:44.8

12.00 ⌐12

7-6-1

2x4 ‖ T1

3

2

ST2

T1 2x4 ‖

4

ST1

ST1

1

5

3x4 ╱╱

8 9

7

10 6

3x4 ╲╲

2x4 ‖

2x4 ‖

2x4 ‖

15-0-3
15-0-3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 72 lb	FT = 0%
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 6-0-0 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS.   All bearings 15-0-3.
    (lb) - Max Horz 1=-140(LC 8)
            Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-179(LC 12), 6=-179(LC 13)
            Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=420(LC 22), 8=422(LC 23), 6=422(LC 20)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   2-8=-274/209, 4-6=-274/209

NOTES-   (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(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
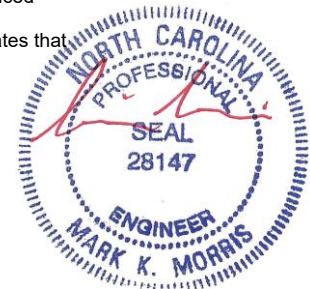   between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb)
   8=179, 6=179.
8) This truss is designed in accordance with the 2018 International Residential 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.
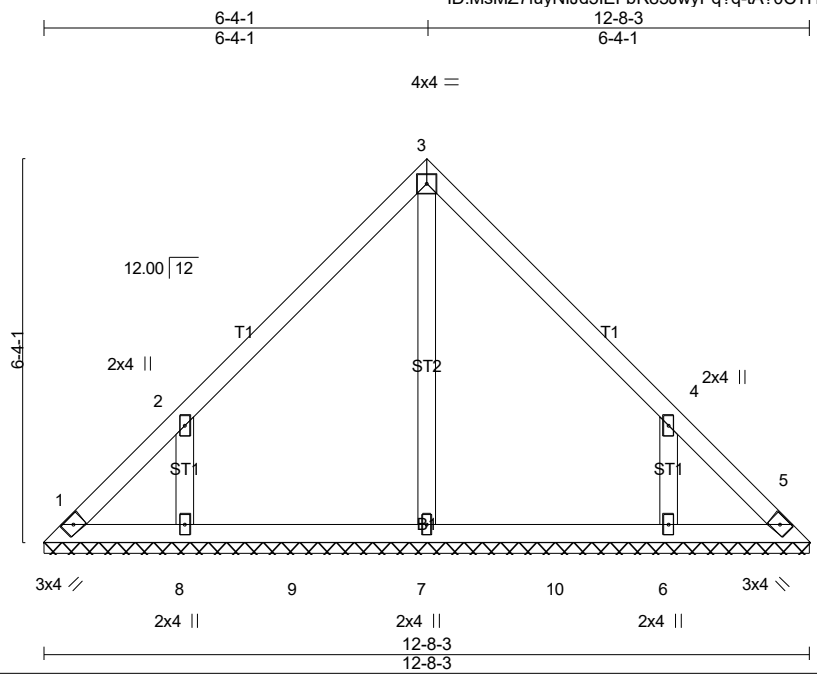
LOAD CASE(S) Standard

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	VT02	Valley	1	1	**# 24698**
					Job Reference (optional)	

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:17:03 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-tA?0CTHhE0SNfilXu0QTMt5aUXzChRfhYPS?xAyAG3U

Scale = 1:38.1

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 58 lb	FT = 0%
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 6-0-0 oc purlins.
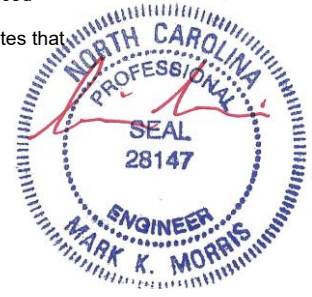BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. All bearings 12-8-3.
(lb) - Max Horz 1=-117(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-160(LC 12), 6=-160(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=378(LC 19), 8=344(LC 19), 6=344(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-254/196, 4-6=-254/196

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb)
   8=160, 6=160.
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.
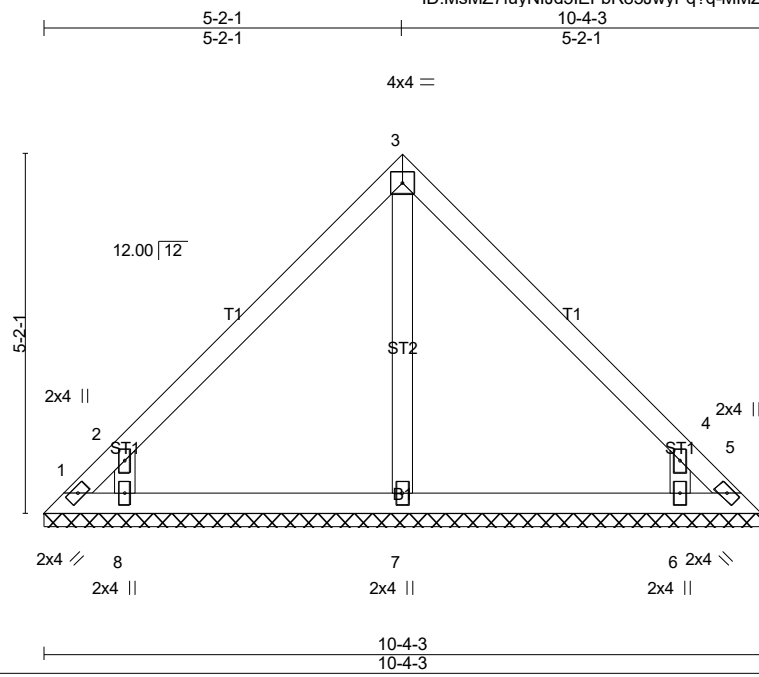
LOAD CASE(S) Standard

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE | 112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	VT03	Valley	1	1	*# 24698*

Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:17:04 2020 Page 1
ID:MsMZ7fuyNlJd5lEFbR85JwyPq?q-MMZOQplJ_KaEGsKjSjxiv4dkxwLKQuIrn3BYTcyAG3T

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 44 lb	FT = 0%
BCDL	10.0											

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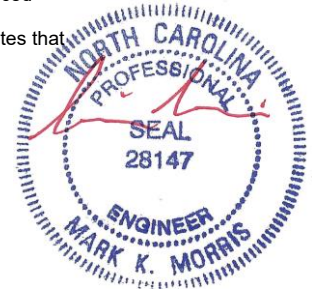BOT CHORD 2x4 SP No.3
OTHERS   2x4 SP No.3

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

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

REACTIONS.   All bearings 10-4-3.
  (lb) - Max Horz 1=94(LC 11)
          Max Uplift All uplift 100 lb or less at joint(s) except 1=-120(LC 10), 5=-103(LC 11), 8=-185(LC 12), 6=-185(LC 13)
          Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=360(LC 19), 6=360(LC 24)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS   2-8=-310/243, 4-6=-310/243

NOTES-   (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(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 120 lb uplift at joint 1, 103 lb uplift at joint 5, 185 lb uplift at joint 8 and 185 lb uplift at joint 6.
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.
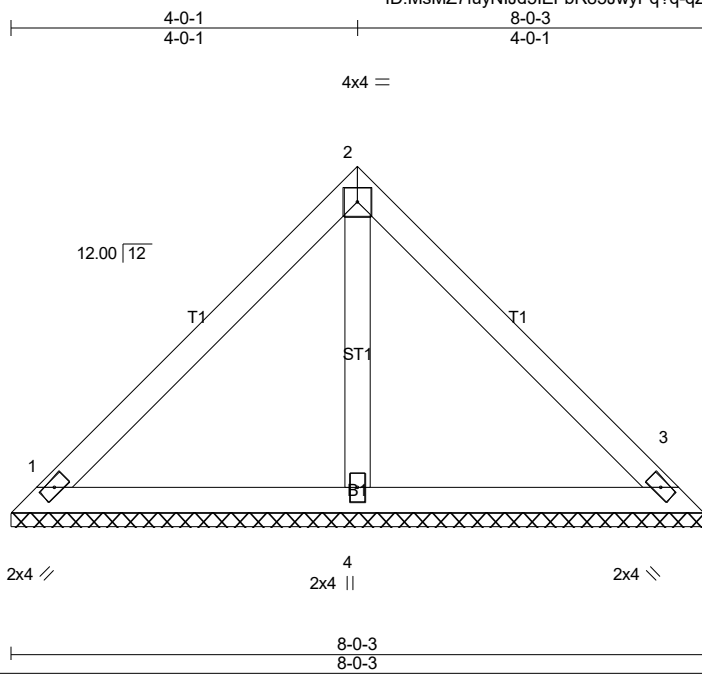
LOAD CASE(S) Standard

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE | 112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	VT04	Valley	1	1	**# 24698**
					Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:17:05 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-qZ7md9Jxlei5u0uw?RSxRIAuhKh89M0_?jx602yAG3S

	4-0-1		8-0-3	
	4-0-1		4-0-1	

4x4 =

Scale = 1:26.7

12.00 [12]

4-0-1

T1   T1

ST1

B1

1   2   3

4

2x4 //   2x4 || 2x4 \\

8-0-3

8-0-3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							Weight: 32 lb	FT = 0%
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 6-0-0 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
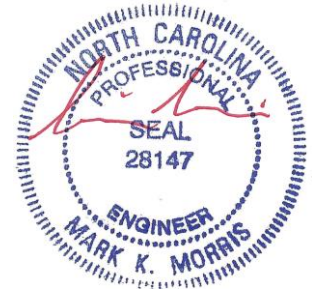
REACTIONS. (lb/size) 1=176/8-0-3 (min. 0-1-8), 3=176/8-0-3 (min. 0-1-8), 4=233/8-0-3 (min. 0-1-8)
Max Horz 1=-71(LC 8)
Max Uplift1=-33(LC 13), 3=-33(LC 13)

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=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(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 33 lb uplift at joint 1 and 33 lb uplift at joint 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.
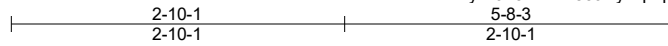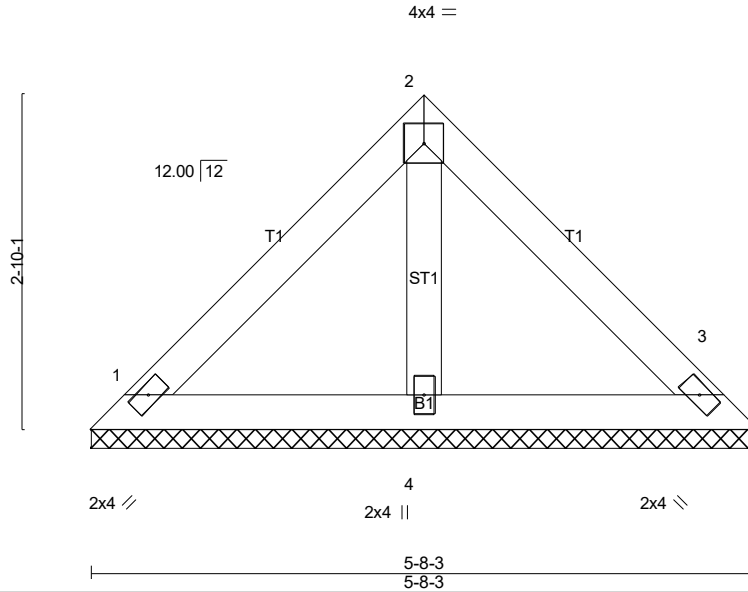
LOAD CASE(S) Standard

12/9/2020

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:17:06 2020 Page 1
ID:MsMZ7fuyNlJd5IEFbR85JwyPq?q-Ilh8rUKaWxryWAT6Z8zA_Vi6lk3Hupb8ENgfYVyAG3R

2-10-1

5-8-3

2-10-1

2-10-1

Scale = 1:19.6

4x4 =

12.00 | 12

2-10-1

T1   T1

ST1

3

1

B1

4

2x4 //

2x4 ||

2x4 \\

5-8-3

5-8-3

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P								
BCDL	10.0										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 5-8-3 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=120/5-8-3 (min. 0-1-8), 3=120/5-8-3 (min. 0-1-8), 4=158/5-8-3 (min. 0-1-8)
Max Horz 1=-49(LC 8)
Max Uplift1=-22(LC 13), 3=-22(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=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(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 22 lb uplift at joint 1 and 22 lb uplift at joint 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.
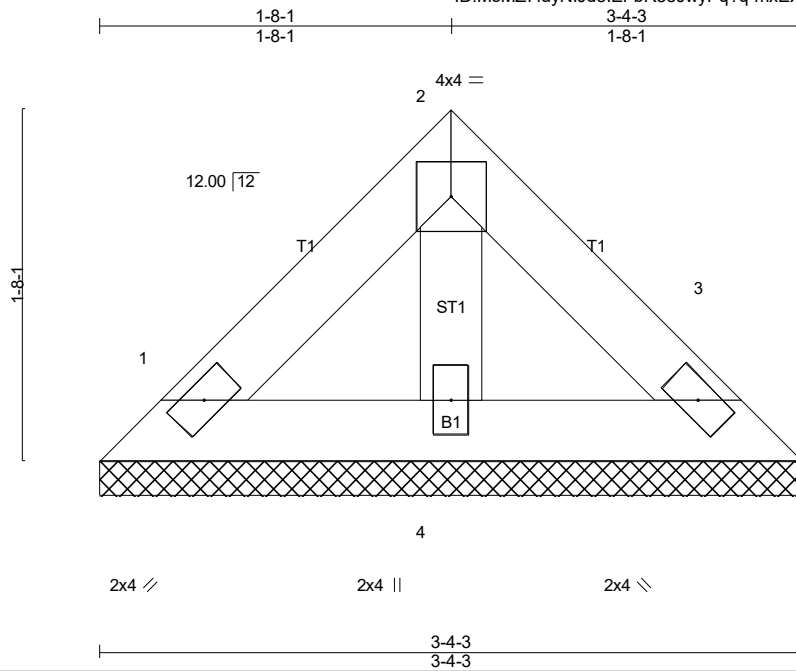
LOAD CASE(S) Standard

12/9/2020

Job	Truss	Truss Type	Qty	Ply	LOT 1162 CARRIAGE CIRCLE	112 SPRUCE HOLLOW CIRCLE SPRING LAKE, N
20-5718-R01	VT06	Valley	1	1	**# 24698**
					Job Reference (optional)	

8.330 s Mar 10 2020 MiTek Industries, Inc. Thu Dec 10 21:17:07 2020 Page 1
ID:MsMZ7fuyNIJd5IEFbR85JwyPq?q-mxEX2qLCHFzp8K2I7sUPWjFIq8PidG0HT1QC4xyAG3Q

Scale = 1:11.0

1-8-1 | 3-4-3
1-8-1 | 1-8-1

4x4 =

12.00 [12

3-4-3
3-4-3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P								
BCDL	10.0										Weight: 12 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 3-4-3 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=64/3-4-3 (min. 0-1-8), 3=64/3-4-3 (min. 0-1-8), 4=84/3-4-3 (min. 0-1-8)
Max Horz 1=-26(LC 8)
Max Uplift1=-12(LC 13), 3=-12(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=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(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 12 lb uplift at joint 1 and 12 lb uplift at joint 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

12/9/2020