

Job 22-2666-R01	Truss PB01	Truss Type Piggyback	Qty 2	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:30:55 2022 Page 1
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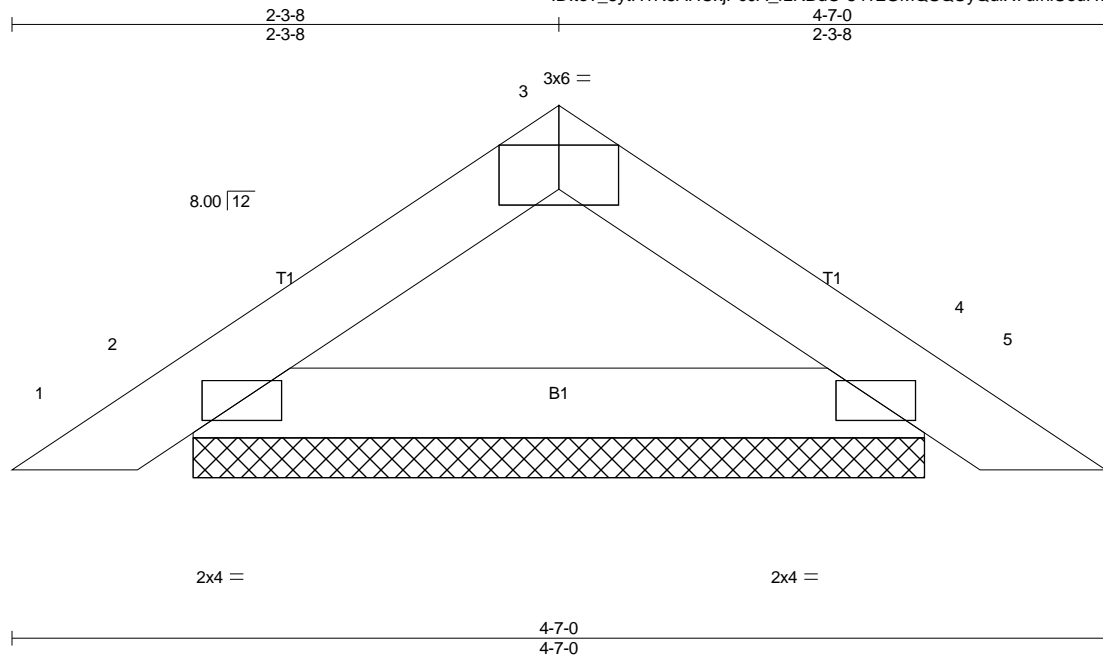


Plate Offsets (X,Y)-- [3:0-3-0,Edge]		4-7-0		4-7-0		4-7-0		4-7-0	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	0.00	4	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	0.00	4	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 13 lb	FT = 0%

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

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 4-7-0 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	=	152/3-0-12 (min. 0-1-8)
4	=	152/3-0-12 (min. 0-1-8)
Max Horz		
2	=	31(LC 11)
Max Uplift		
2	=	-27(LC 12)
4	=	-27(LC 13)

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

NOTES- (11-12)

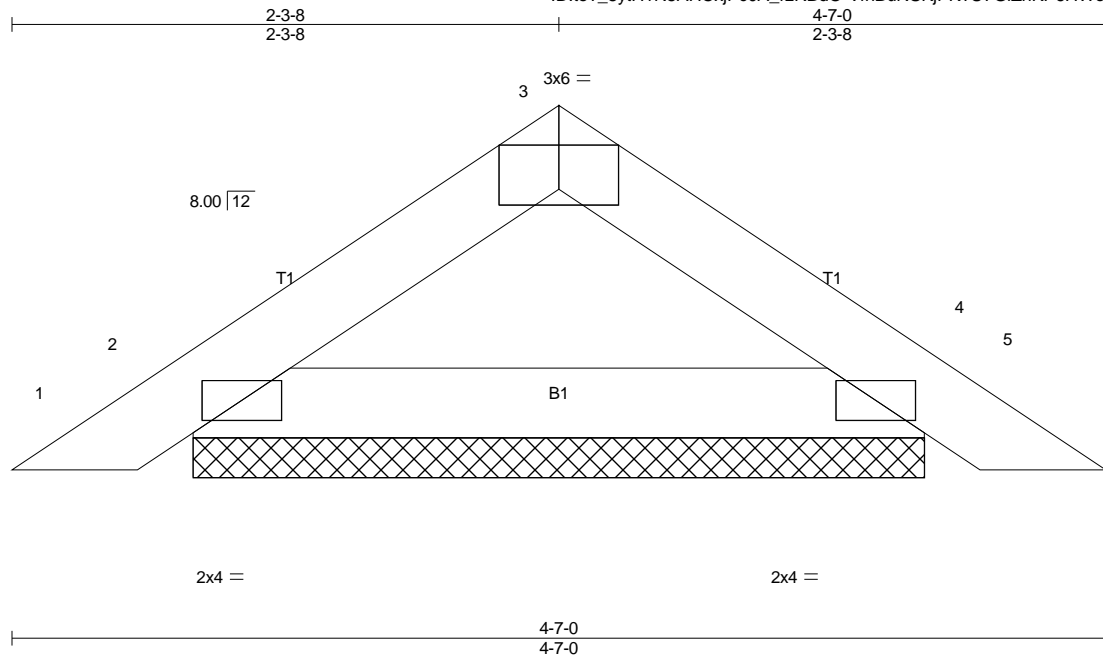
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
 Standard

Job 22-2666-R01	Truss PB02	Truss Type Piggyback	Qty 17	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:30:58 2022 Page 1
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Scale = 1:9.7

Plate Offsets (X,Y)-- [3:0-3-0,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 0.03	Vert(LL)	0.00	4	n/r	MT20	244/190		
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	0.00	4	n/r				
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a				
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P								
								Weight: 13 lb	FT = 0%		

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.3
BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 4-7-0 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	=	152/3-0-12 (min. 0-1-8)
4	=	152/3-0-12 (min. 0-1-8)
Max Horz		
2	=	31(LC 11)
Max Uplift		
2	=	-27(LC 12)
4	=	-27(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=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
 Standard

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	R01	GABLE	2	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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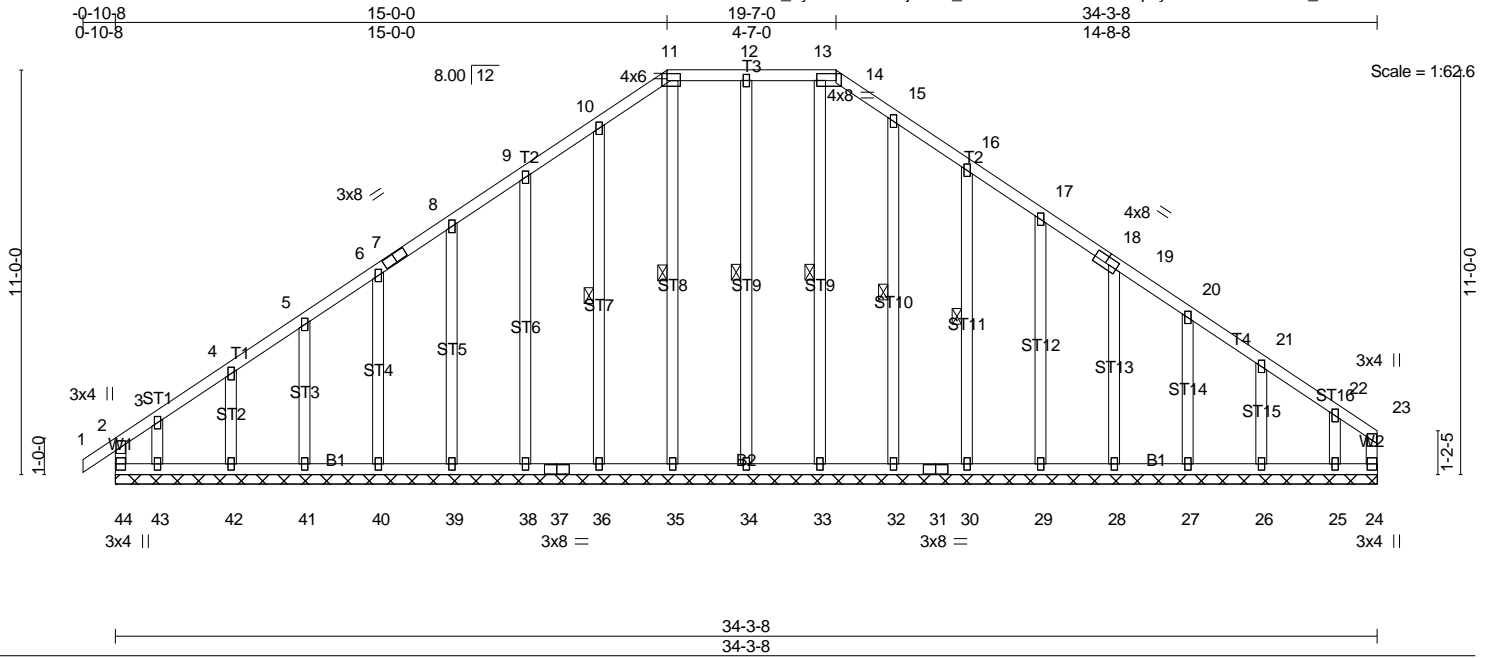


Plate Offsets (X,Y)-- [11:0-4-4,0-2-4], [14:0-6-4,0-2-4], [18:0-4-0,0-2-4]

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 0.23	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.01	24	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 272 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS
 1 Row at midpt
 12-34, 11-35, 10-36, 13-33, 15-32, 16-30

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

REACTIONS. All bearings 34-3-8.

(lb) - Max Horz
 44= 267(LC 9)
 Max Uplift
 All uplift 100 lb or less at joint(s)
 34, 35, 36, 38, 39, 40, 41, 42, 32, 30,
 29, 28, 27, 26 except 44=214(LC 8),
 24=123(LC 11), 43=197(LC 12),
 25=171(LC 13)
 Max Grav
 All reactions 250 lb or less at joint(s)
 24, 34, 41, 42, 43, 27, 26, 25 except
 44=272(LC 21), 35=276(LC 23),
 36=260(LC 20), 38=259(LC 20),
 39=256(LC 20), 40=264(LC 20),
 33=270(LC 23), 32=251(LC 21),
 30=261(LC 21), 29=256(LC 21),
 28=264(LC 21)

FORCES. (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 9-10=-169/254, 10-11=-197/283,

TOP CHORD
 9-10=-169/254, 10-11=-197/283,
 14-15=-193/268

NOTES- (15-16)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) 34, 35, 36, 38, 39, 40, 41, 42, 32, 30, 29, 28, 27, 26 except (jt=lb) 44=214, 24=123, 43=197, 25=171.

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.

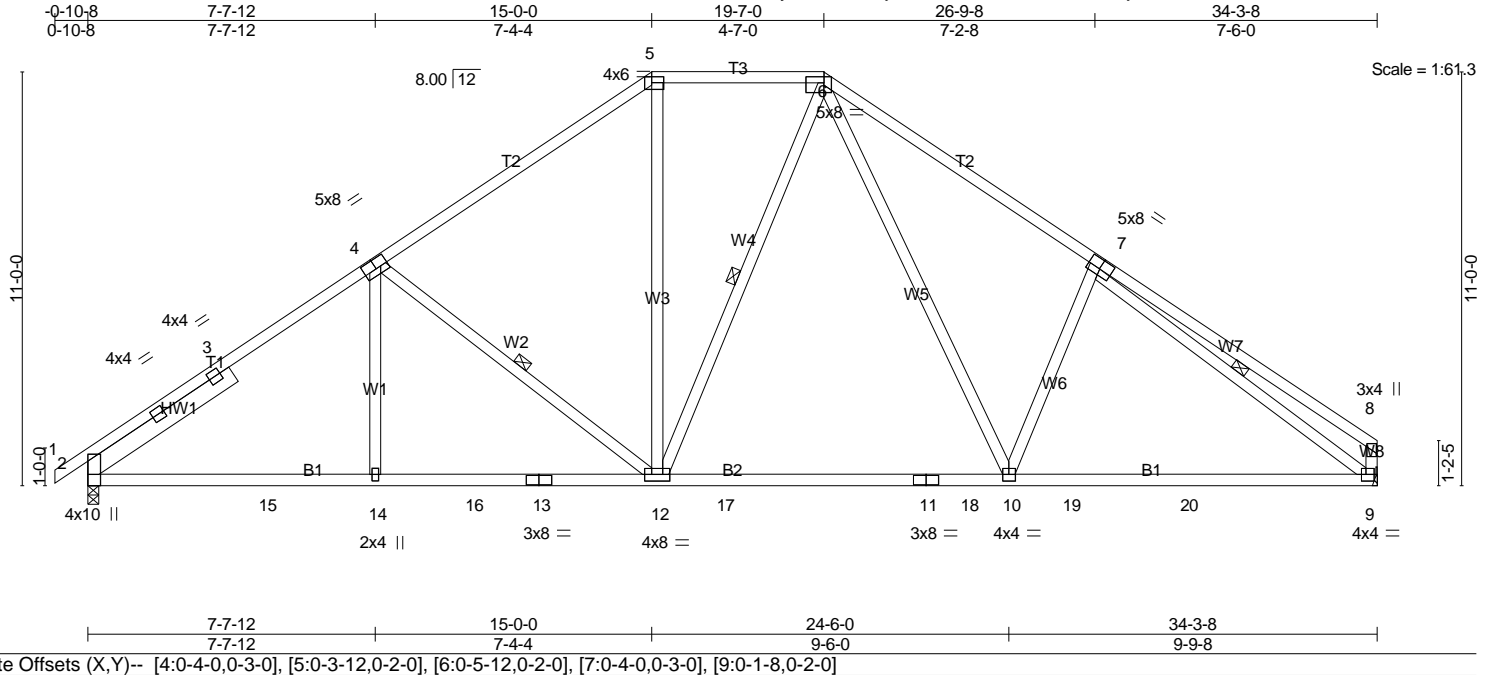
LOAD CASE(S)

Standard

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	R02	Piggyback Base	7	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.83	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 1.00	Vert(LL) -0.46 10-12 >888 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.79	Vert(CT) -0.62 10-12 >660 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.08 9 n/a n/a		
	Code IRC2018/TPI2014			Weight: 218 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
 T2: 2x4 SP No.1
 BOT CHORD 2x4 SP No.1 *Except*
 B2: 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER
 Left 2x6 SP No.2 - 4-8-7

BRACING-

TOP CHORD
 Structural wood sheathing directly applied or 1-7-8 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 2-2-0 oc bracing, Except:
 10-0-0 oc bracing: 2-14.
 WEBS
 1 Row at midpt
 4-12, 6-12, 7-9

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

REACTIONS. (lb/size)

2 = 1419/0-3-8 (min. 0-1-14)
 9 = 1365/Mechanical
 Max Horz
 2 = 255(LC 9)
 Max Uplift
 2 = -179(LC 12)
 9 = -158(LC 13)
 Max Grav
 2 = 1592(LC 20)
 9 = 1526(LC 21)

FORCES. (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-3=-2185/202, 3-4=-2070/230,
 4-5=-1619/226, 5-6=-1267/250,

TOP CHORD

2-3=-2185/202, 3-4=-2070/230,
 4-5=-1619/226, 5-6=-1267/250,
 6-7=-1942/325, 7-8=-462/151,
 8-9=-395/149
BOT CHORD
 2-15=-232/1817, 14-15=-232/1817,
 14-16=-231/1820, 13-16=-231/1820,
 12-13=-231/1820, 12-17=-9/1239,
 11-17=-9/1239, 11-18=-9/1239,
 10-18=-9/1239, 10-19=-110/1594,
 19-20=-110/1594, 9-20=-110/1594
WEBS
 4-14=0/379, 4-12=-636/247,
 5-12=-64/584, 6-10=-177/813,
 7-10=-303/290, 7-9=-1708/97

NOTES- (11-12)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=179, 9=158.
- 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

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	R02A	Piggyback Base	5	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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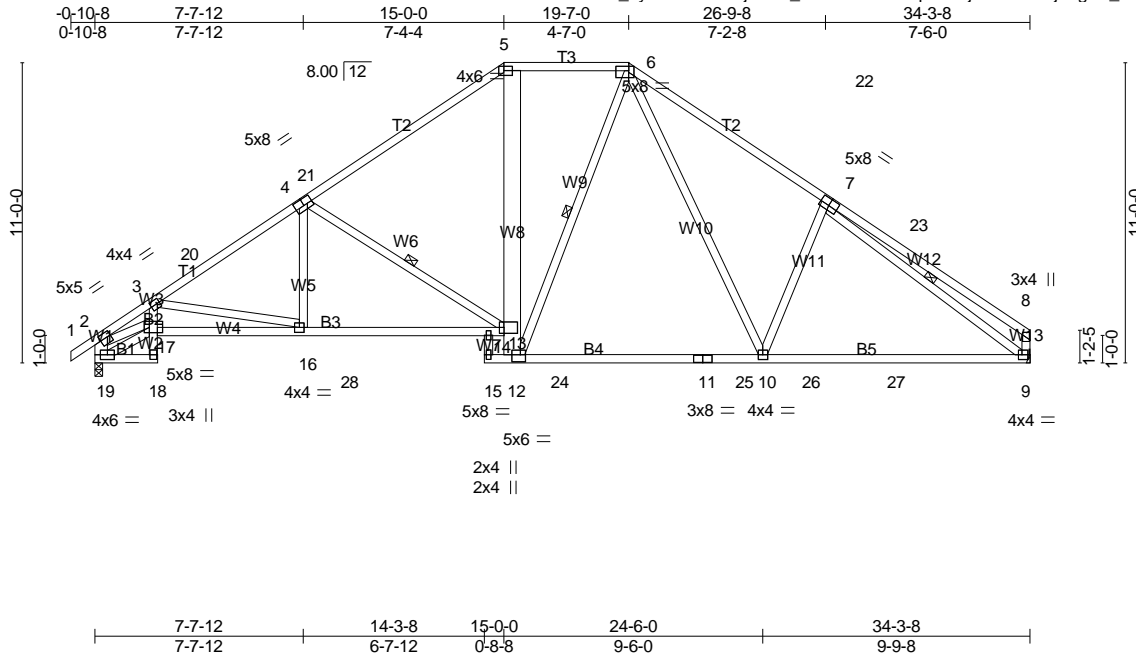


Plate Offsets (X,Y)-- [2:0-1-8,0-2-4], [3:0-1-0,0-2-0], [4:0-4-0,0-3-0], [5:0-3-12,0-2-0], [6:0-5-12,0-2-0], [7:0-4-0,0-3-0], [9:0-1-8,0-2-0], [12:0-2-4,0-3-0], [13:0-2-0,0-2-8], [17:0-5-12,0-2-4]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.94	Vert(LL) -0.44 10-12 >918 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.95	Vert(CT) -0.63 10-12 >649 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.23 9 n/a n/a		
	Code IRC2018/TPI2014			Weight: 241 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B5: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
W8: 2x8 SP No.1, W1: 2x6 SP No.2

BRACING-
TOP CHORD
Structural wood sheathing directly applied, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS
1 Row at midpt
4-13, 6-12, 7-9

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

REACTIONS. (lb/size)
9 = 1356/Mechanical
19 = 1424/0-3-8 (min. 0-1-11)
Max Horz
19 = 253(LC 9)
Max Uplift
9 = -157(LC 13)
19 = -182(LC 12)
Max Grav
9 = 1480(LC 25)
19 = 1455(LC 20)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-2731/434, 3-20=-2215/280,
4-20=-2095/302, 4-21=-1662/265,
5-21=-1645/307, 5-6=-1183/314,
6-22=-1850/362, 7-22=-1867/321,
7-23=-273/156, 8-23=-451/134,

TOP CHORD
2-3=-2731/434, 3-20=-2215/280,
4-20=-2095/302, 4-21=-1662/265,
5-21=-1645/307, 5-6=-1183/314,
6-22=-1850/362, 7-22=-1867/321,
7-23=-273/156, 8-23=-451/134,
8-9=-389/152, 2-19=-1483/257
BOT CHORD
12-24=-38/1171, 11-24=-38/1171,
11-25=-38/1171, 10-25=-38/1171,
10-26=-156/1535, 26-27=-156/1535,
9-27=-156/1535, 3-17=-83/294,
16-17=-526/2562, 16-28=-286/1960,
14-28=-286/1960, 13-14=-286/1960
WEBS
4-16=0/350, 4-13=-728/273,
12-13=-32/597, 5-13=-53/614,
6-10=-179/813, 7-10=-308/291,
7-9=-1633/184, 2-17=-329/2121,
3-16=-618/245, 14-15=-382/0

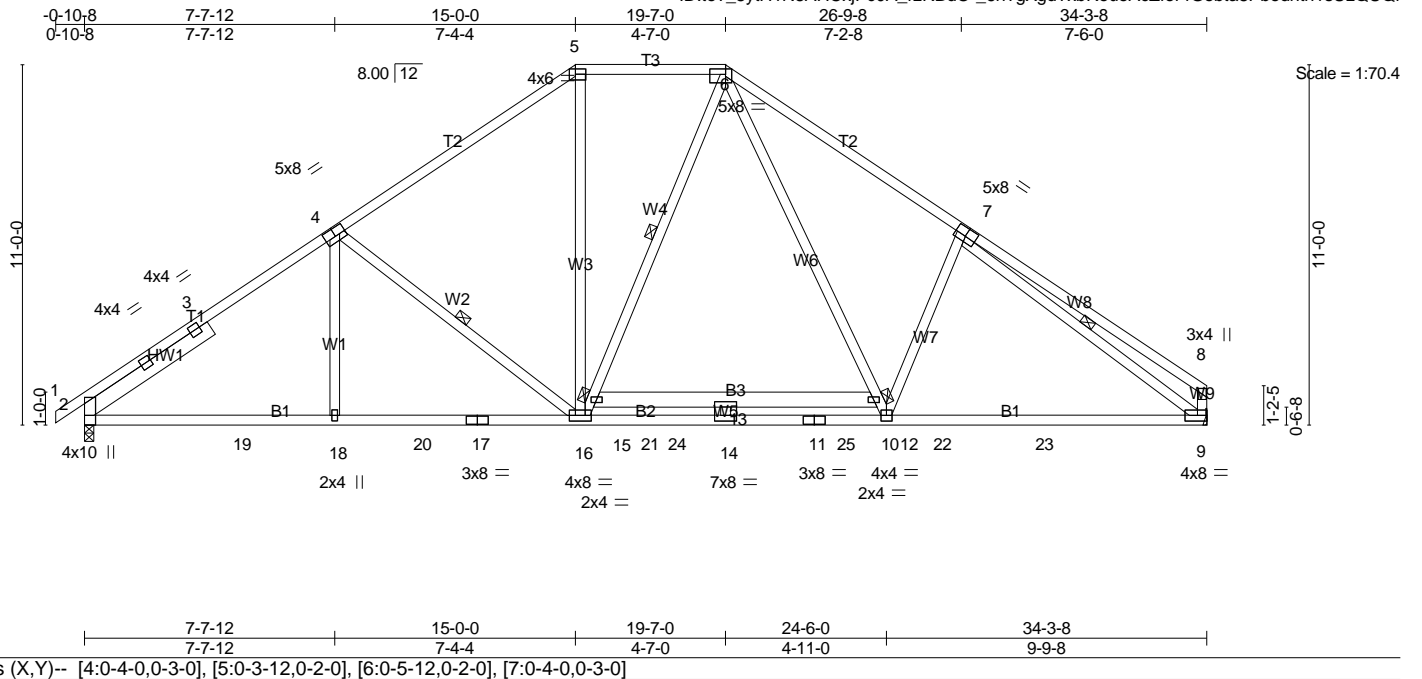
NOTES- (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 8-2-9, Exterior(2R) 8-2-9 to 26-4-7, Interior(1) 26-4-7 to 29-4-2, Exterior(2E) 29-4-2 to 34-1-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) 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) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=157, 19=182.
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

Job 22-2666-R01	Truss R03	Truss Type Piggyback Base	Qty 2	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:31:16 2022 Page 1
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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 0.93	Vert(LL)	-0.34 12-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.94	Vert(CT)	-0.51 12-13	>804	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(CT)	0.09 9	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH					Weight: 239 lb	FT = 0%

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

LUMBER-
 TOP CHORD 2x4 SP No.1 *Except*
 T3,T4: 2x4 SP No.2
 BOT CHORD 2x4 SP No.1 *Except*
 B2: 2x4 SP No.2, B3: 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER
 Left 2x6 SP No.2 - 4-8-7
BRACING-
 TOP CHORD
 Structural wood sheathing directly applied, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing,
 Except:
 2-2-0 oc bracing: 16-18.
 6-0-0 oc bracing: 12-15
 WEBS
 1 Row at midpt
 4-16, 6-15, 7-9

TOP CHORD
 2-3=-2447/143, 3-4=-2332/171,
 4-5=-1880/165, 5-6=-1487/198,
 6-7=-2275/245, 7-8=-493/147,
 8-9=-414/146
 BOT CHORD
 2-19=-185/2026, 18-19=-185/2026,
 18-20=-184/2029, 17-20=-184/2029,
 16-17=-184/2029, 16-21=0/1537,
 14-21=0/1537, 11-14=0/1537,
 10-11=0/1537, 10-22=-46/1860,
 22-23=-46/1860, 9-23=-46/1860
 WEBS
 4-18=0/390, 4-16=-624/252,
 5-16=-30/728, 6-15=-99/262,
 6-12=-137/979, 10-12=-178/729,
 7-10=-289/298, 7-9=-2017/19

6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 8) Refer to girder(s) for truss to truss connections.
 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=143, 9=107.
 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.

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

REACTIONS. (lb/size)

2	=	1492/0-3-8 (min. 0-2-1)
9	=	1467/Mechanical
Max Horz		
2	=	255(LC 9)
Max Uplift		
2	=	-143(LC 12)
9	=	-107(LC 13)
Max Grav		
2	=	1751(LC 20)
9	=	1745(LC 21)

FORCES. (lb)
 Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-3=-2447/143, 3-4=-2332/171,

NOTES- (11-12)
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 5) Provide adequate drainage to prevent water ponding.

Job 22-2666-R01	Truss R04	Truss Type Piggyback Base	Qty 3	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

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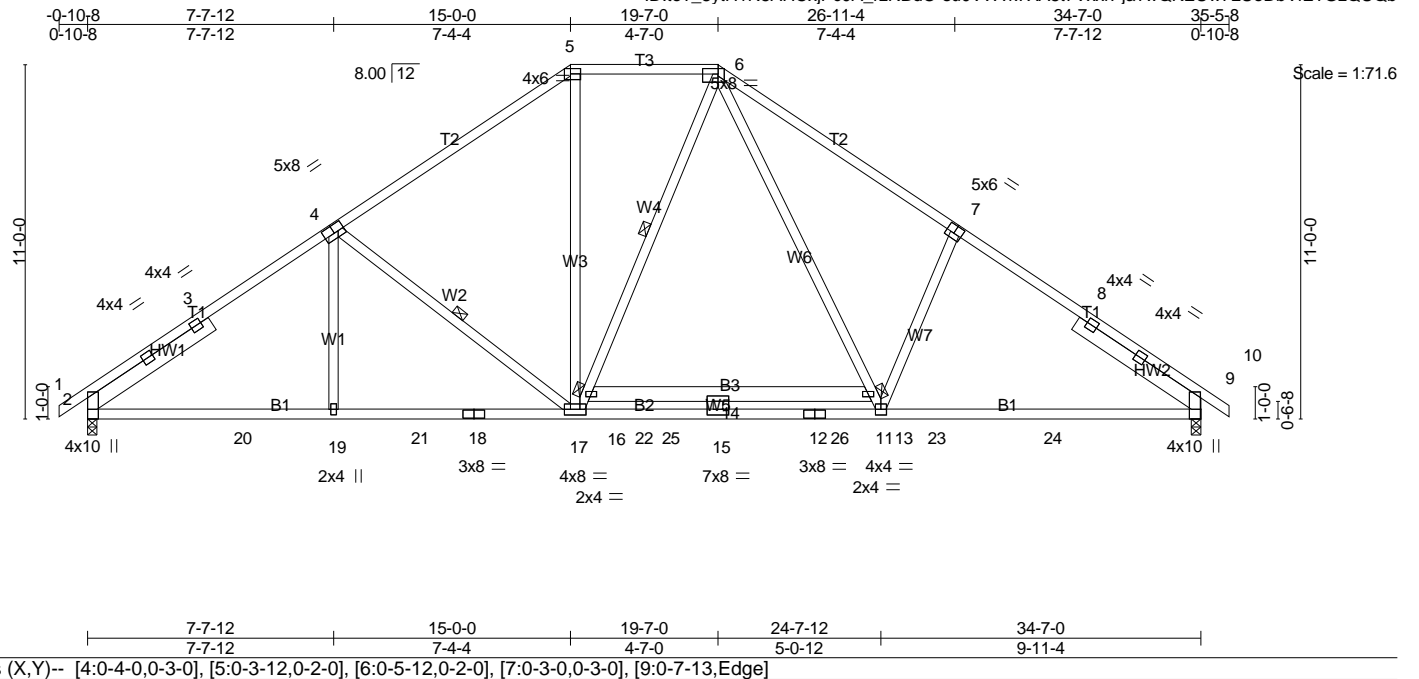


Plate Offsets (X,Y)--	[4:0-4-0,0-3-0], [5:0-3-12,0-2-0], [6:0-5-12,0-2-0], [7:0-3-0,0-3-0], [9:0-7-13,Edge]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.95	Vert(LL) -0.37	13-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 1.00	Vert(CT) -0.56	13-14	>744		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.61	Horz(CT) 0.09	9	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH					
						Weight: 239 lb	FT = 0%

LUMBER-
 TOP CHORD 2x4 SP SS *Except*
 T3: 2x4 SP No.2, T1: 2x4 SP No.1
 BOT CHORD 2x4 SP No.1 *Except*
 B2: 2x4 SP No.2, B3: 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER
 Left 2x6 SP No.2 - 4-8-7,
 Right 2x6 SP No.2 - 4-8-10
BRACING-
 TOP CHORD
 Structural wood sheathing directly applied.
 BOT CHORD
 Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
 4-9-0 oc bracing: 13-16
 WEBS
 1 Row at midpt 4-17, 6-16

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

TOP CHORD
 2-3=-2495/143, 3-4=-2380/171,
 4-5=-1932/164, 5-6=-1531/197,
 6-7=-2377/258, 7-8=-2436/157,
 8-9=-2551/130
BOT CHORD
 2-20=-183/2062, 19-20=-183/2062,
 19-21=-183/2065, 18-21=-183/2065,
 17-18=-183/2065, 17-22=0/1598,
 15-22=0/1598, 12-15=0/1598,
 11-12=0/1598, 11-23=-7/1968,
 23-24=-7/1968, 9-24=-7/1968
WEBS
 4-19=0/387, 4-17=-617/253,
 5-17=-32/761, 16-17=-260/129,
 6-13=-150/1050, 11-13=-195/790,
 7-11=-327/297

NOTES- (10-11)
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) except (jt=lb) 2=143, 9=129.
 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

REACTIONS. (lb/size)

2	=	1511/0-3-8 (min. 0-2-2)
9	=	1539/0-3-8 (min. 0-2-3)
Max Horz		
2	=	245(LC 9)
Max Uplift		
2	=	-143(LC 12)
9	=	-129(LC 13)
Max Grav		
2	=	1781(LC 20)
9	=	1839(LC 21)

FORCES. (lb)
 Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
 2-3=-2495/143, 3-4=-2380/171,
 4-5=-1932/164, 5-6=-1531/197,
 6-7=-2377/258, 7-8=-2436/157,
 8-9=-2551/130

Job 22-2666-R01	Truss R05	Truss Type GABLE	Qty 1	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
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Atlantic Building Components, Moncks Corner, South Carolina

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Job Reference (optional)

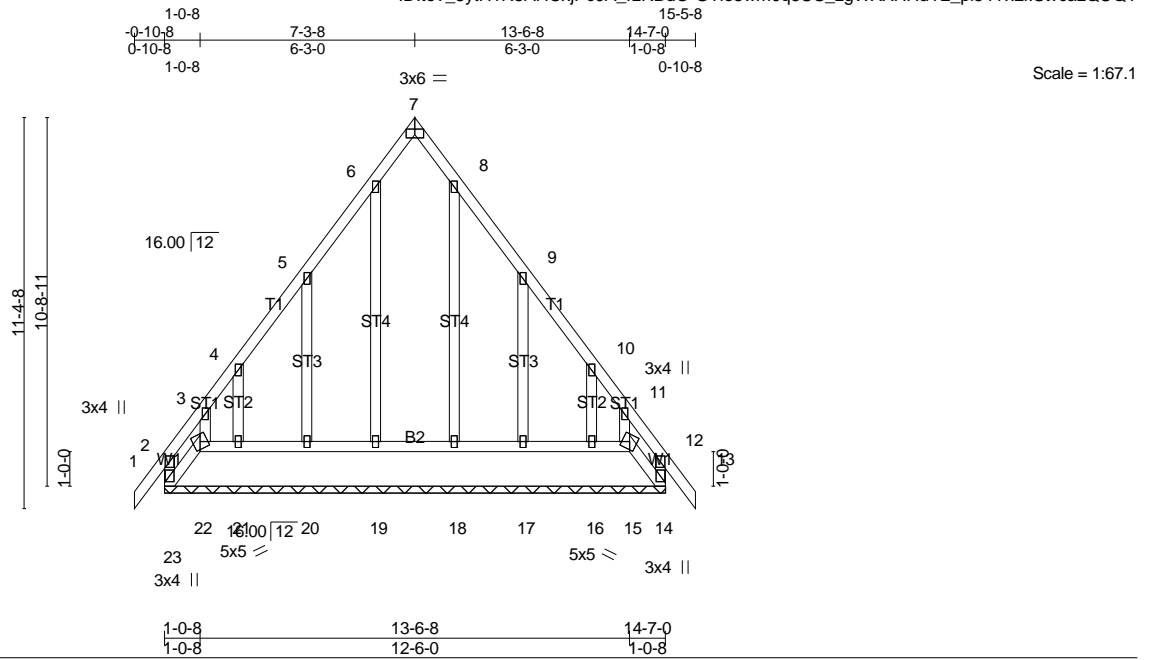


Plate Offsets (X,Y)-- [7:Edge,0-1-13]

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 0.36	Vert(LL)	-0.00	13	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.01	13	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.01	14	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 115 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD

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

BOT CHORD

Rigid ceiling directly applied or 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 14-7-0.

(lb) - Max Horz

23=-301(LC 10)

Max Uplift

All uplift 100 lb or less at joint(s)

14, 15, 19, 18 except 23=-421(LC 8),

22=-313(LC 11), 20=-202(LC 12),

21=-149(LC 12), 17=-204(LC 13),

16=-154(LC 13)

Max Grav

All reactions 250 lb or less at joint(s)

14, 15, 21, 16 except 23=488(LC 11),

22=367(LC 10), 19=287(LC 20),

20=252(LC 20), 18=275(LC 22),

17=256(LC 21)

FORCES. (lb)

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

TOP CHORD

2-23=-336/268, 2-3=-434/334,

3-4=-312/206, 10-11=-305/203,

11-12=-422/334, 12-14=-326/268

BOT CHORD

22-23=-318/378, 21-22=-161/257,

20-21=-160/257, 19-20=-160/257,

BOT CHORD

22-23=-318/378, 21-22=-161/257,

20-21=-160/257, 19-20=-160/257,

18-19=-160/257, 17-18=-160/257,

16-17=-160/257, 15-16=-160/256,

14-15=-210/321

WEBS

5-20=-250/219, 9-17=-250/221

NOTES- (15-16)

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust)

Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft;

Cat. II; Exp B; Enclosed; MWFRS (envelope) gable

end zone and C-C Exterior(2) zone; end vertical left

and right exposed;C-C for members and forces &

MWFRS for reactions shown; Lumber DOL=1.60 plate

grip DOL=1.60

3) 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) All plates are 2x4 MT20 unless otherwise indicated.

7) Gable requires continuous bottom chord bearing.

8) Truss to be fully sheathed from one face or

securely braced against lateral movement (i.e.

diagonal web).

9) Gable studs spaced at 2-0-0 oc.

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

11) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 15, 19, 18 except (jt=lb) 23=421, 22=313, 20=202, 21=149, 17=204, 16=154.

13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 22, 15, 19, 20, 21, 18, 17, 16.

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.

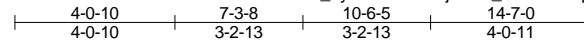
LOAD CASE(S)

Standard

Job 22-2666-R01	Truss R06	Truss Type Common Girder	Qty 1	Ply 2	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
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Atlantic Building Components, Moncks Corner, South Carolina

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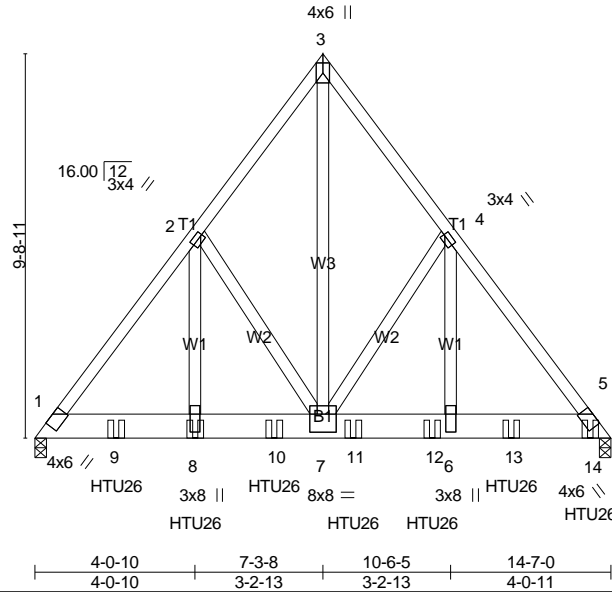


Plate Offsets (X,Y)-- [1:0-2-9,Edge], [2:0-0-8,0-1-8], [4:0-0-8,0-1-8], [5:0-0-1,Edge], [6:0-5-8,0-1-8], [7:0-4-0,0-5-8], [8:0-5-8,0-1-8]

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 0.31	Vert(LL) -0.06	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT) -0.11	7	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.74	Horz(CT) 0.01	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH					
							Weight: 242 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x8 SP DSS
 WEBS 2x4 SP No.3 *Except*
 W3: 2x4 SP No.2

BRACING-

TOP CHORD
 Structural wood sheathing directly applied or 5-0-15 oc purlins.
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)

1 = 4775/0-3-8 (min. 0-2-10)
 5 = 5893/0-3-8 (min. 0-3-5)
 Max Horz
 1 = -228(LC 6)
 Max Uplift
 1 = -599(LC 11)
 5 = -674(LC 10)
 Max Grav
 1 = 5170(LC 3)
 5 = 6510(LC 3)

FORCES. (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 1-2=-5521/683, 2-3=-3915/590,
 3-4=-3929/590, 4-5=-5570/682
 BOT CHORD
 1-9=-446/3423, 8-9=-446/3423,
 8-10=-446/3423, 7-10=-446/3423,
 7-11=-368/3456, 11-12=-368/3456,
 6-12=-368/3456, 6-13=-368/3456,
 13-14=-368/3456, 5-14=-368/3456
 WEBS
 3-7=-838/6008, 4-7=-2039/414,
 4-6=-285/2724, 2-7=-1980/413,
 2-8=-284/2639

NOTES- (12-13)

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft;
 Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=599, 5=674.
- 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.

- 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 14-0-12 to connect truss(es) R02 (1 ply 2x4 SP), R03 (1 ply 2x4 SP) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

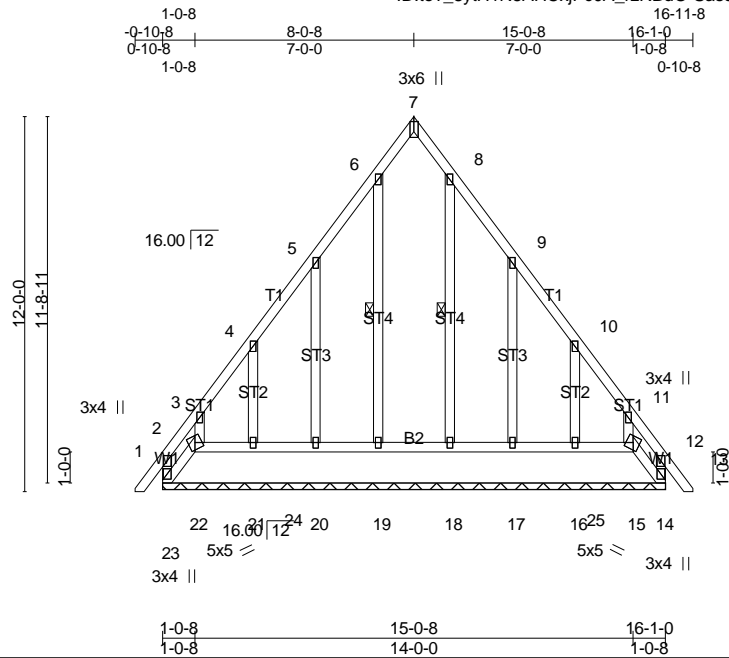
LOAD CASE(S)

Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15,
 Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-60, 1-5=-20
 Concentrated Loads (lb)
 Vert: 8=-1345(B) 9=-1345(B) 10=-1345(B)
 11=-1345(B) 12=-1345(B) 13=-1345(B) 14=-1454(B)

Job 22-2666-R01	Truss R07	Truss Type GABLE	Qty 1	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
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Scale = 1:73.7

Plate Offsets (X,Y)-- [7:Edge,0-1-8]

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 0.40	Vert(LL) -0.00	13	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT) -0.00	13	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT) 0.01	14	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R					
							Weight: 129 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS
1 Row at midpt 6-19, 8-18

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

REACTIONS. All bearings 16-1-0.

(lb) - Max Horz
23=-321(LC 10)
Max Uplift
All uplift 100 lb or less at joint(s)
14, 15, 19 except 23=-489(LC 10),
22=-377(LC 9), 20=-210(LC 12),
21=-146(LC 12), 17=-212(LC 13),
16=-149(LC 13)
Max Grav
All reactions 250 lb or less at joint(s)
14, 15, 21, 16 except 23=547(LC 9),
22=469(LC 10), 19=283(LC 23),
20=300(LC 20), 18=277(LC 22),
17=303(LC 21)

FORCES. (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-23=-442/333, 2-3=-542/404,
3-4=-293/203, 10-11=-285/186,
11-12=-529/404, 12-14=-430/333
BOT CHORD
22-23=-331/416, 21-22=-171/274,

BOT CHORD

22-23=-331/416, 21-22=-171/274,
21-24=-170/274, 20-24=-170/274,
19-20=-170/274, 18-19=-170/274,
17-18=-170/274, 17-25=-170/274,
16-25=-170/274, 15-16=-171/274,
14-15=-244/367
WEBS
5-20=-252/225, 9-17=-252/227,
3-22=-282/276, 11-15=-282/271

NOTES- (15-16)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.

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

11) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 15, 19 except (jt=lb) 23=489, 22=377, 20=210, 21=146, 17=212, 16=149.

13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 22, 15, 19, 20, 21, 18, 17, 16.
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.

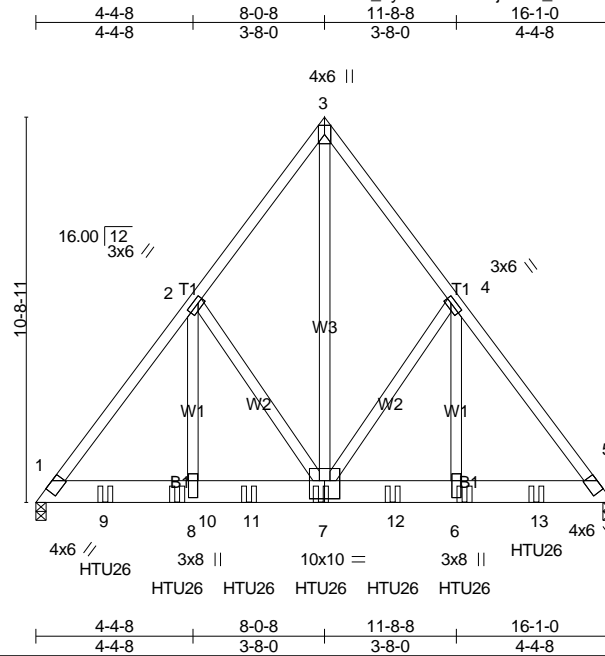
LOAD CASE(S)

Standard

Job 22-2666-R01	Truss R08	Truss Type Common Girder	Qty 1	Ply 2	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
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Atlantic Building Components, Moncks Corner, South Carolina

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Scale: 3/16"=1'

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

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 0.41	Vert(LL)	-0.08	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.91	Vert(CT)	-0.14	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.80	Horz(CT)	0.02	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH						
								Weight: 268 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x8 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W3: 2x4 SP No.2

BRACING-

TOP CHORD
 Structural wood sheathing directly applied or 4-8-3 oc purlins.
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)

1 = 5479/0-3-8 (min. 0-3-8)
 5 = 5255/0-3-8 (min. 0-3-5)
 Max Horz
 1 = 253(LC 32)
 Max Uplift
 1 = -634(LC 11)
 5 = -655(LC 10)
 Max Grav
 1 = 5936(LC 3)
 5 = 5609(LC 3)

FORCES. (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 1-2=-6214/749, 2-3=-4288/649,
 3-4=-4287/649, 4-5=-6148/766
 BOT CHORD
 1-9=-489/3848, 9-10=-489/3848,
 8-10=-489/3848, 8-11=-489/3848,
 7-11=-489/3848, 7-12=-414/3803,
 6-12=-414/3803, 6-13=-414/3803,
 5-13=-414/3803
 WEBS
 3-7=-919/6552, 4-7=-2229/465,
 4-6=-331/3014, 2-7=-2307/444,
 2-8=-299/3125

NOTES- (12-13)

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft;
 Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=634, 5=655.
- 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.

- 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 1-11-4 from the left end to 13-11-4 to connect truss(es) R03 (1 ply 2x4 SP), R02A (1 ply 2x4 SP), R02 (1 ply 2x4 SP) to back face of bottom chord.
 11) Fill all nail holes where hanger is in contact with lumber.
- Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

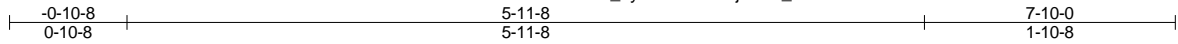
LOAD CASE(S)

- Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-60, 1-5=-20
 Concentrated Loads (lb)
 Vert: 7=-1336(B) 6=-1336(B) 9=-1447(B)
 10=-1336(B) 11=-1336(B) 12=-1336(B) 13=-1345(B)

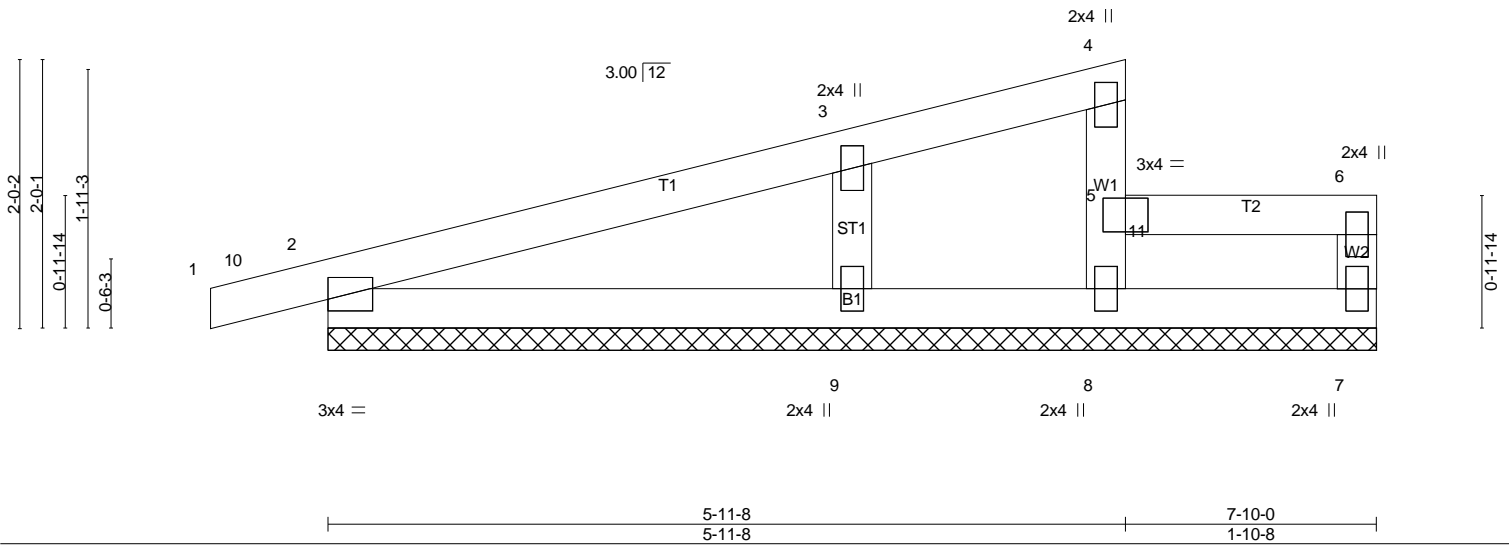
Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	R09	Half Hip Supported	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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Scale = 1:17.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	Vert(LL) -0.00	1	n/r	180	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.23	Vert(CT) 0.00	1	n/r	80		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT) -0.00	8	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH						
	Code IRC2018/TPI2014						Weight: 29 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 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 7-10-0.

(lb) - Max Horz
 2= 83(LC 14)
 Max Uplift
 All uplift 100 lb or less at joint(s) 2, 9
 Max Grav
 All reactions 250 lb or less at joint(s) except 8=509(LC 35), 7=317(LC 35), 2=254(LC 36), 9=433(LC 36)

FORCES. (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 5-8=-488/0, 6-7=-301/0
 WEBS
 3-9=-348/113

NOTES- (15-16)

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 7-8-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) 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) Gable requires continuous bottom chord bearing.
 9) Gable studs spaced at 2-0-0 oc.
 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 11) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

14) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 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
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-60, 5-11=-60, 6-11=-260, 2-7=-20
 Concentrated Loads (lb)
 Vert: 11=-300
 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-60, 5-11=-60, 6-11=-260, 2-7=-20
 Concentrated Loads (lb)
 Vert: 11=-300
 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-50, 5-11=-50, 6-11=-250, 2-7=-20
 Concentrated Loads (lb)
 Vert: 11=-300
 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-50, 5-11=-50, 6-11=-250, 2-7=-20
 Concentrated Loads (lb)

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	R09	Half Hip Supported	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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LOAD CASE(S)

- | | | |
|--|--|---|
| <p>Standard</p> <p>Concentrated Loads (lb)
Vert: 11=-300</p> <p>5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-50, 4-10=-58, 5-11=-29, 6-11=-229, 2-7=-20
Concentrated Loads (lb)
Vert: 11=-300</p> <p>6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-29, 5-11=-63, 6-11=-263, 2-7=-20
Concentrated Loads (lb)
Vert: 11=-300</p> <p>7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 5-11=-20, 6-11=-220, 2-7=-40
Concentrated Loads (lb)
Vert: 11=-300</p> <p>8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-4=-5, 5-11=-5, 6-11=-205, 2-7=-10
Horz: 2-4=-5, 4-5=-62, 6-7=35
Concentrated Loads (lb)
Vert: 11=-300</p> <p>9) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-4=-42, 5-11=-42, 6-11=-242, 2-7=-20
Horz: 2-4=-22, 4-5=22, 6-7=-32
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=38, 2-4=26, 5-11=10, 6-11=-190, 2-7=-10
Horz: 2-4=-36, 4-5=15, 6-7=19
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-4=13, 5-11=26, 6-11=-174, 2-7=-10
Horz: 2-4=-23, 4-5=-19, 6-7=-15
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-4=6, 5-11=-10, 6-11=-210, 2-7=-20
Horz: 2-4=-26, 4-5=25, 6-7=9
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-4=-7, 5-11=6, 6-11=-194, 2-7=-20
Horz: 2-4=-13, 4-5=-9, 6-7=-25
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-4=26, 5-11=10, 6-11=-190, 2-7=-10
Horz: 2-4=-36, 4-5=-36, 6-7=17
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> | <p>Standard</p> <p>15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-4=10, 5-11=26, 6-11=-174, 2-7=-10
Horz: 2-4=-20, 4-5=-20, 6-7=-12
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-4=26, 5-11=10, 6-11=-190, 2-7=-10
Horz: 2-4=-36, 4-5=-36, 6-7=17
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-4=10, 5-11=26, 6-11=-174, 2-7=-10
Horz: 2-4=-20, 4-5=-20, 6-7=-12
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-4=6, 5-11=-10, 6-11=-210, 2-7=-20
Horz: 2-4=-26, 4-5=-26, 6-7=7
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-5, 2-4=-10, 5-11=6, 6-11=-194, 2-7=-20
Horz: 2-4=-10, 4-5=-10, 6-7=-23
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-100, 2-4=-20, 5-11=-20, 6-11=-220, 2-7=-20
Concentrated Loads (lb)
Vert: 11=-300</p> <p>21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-10=-60, 4-10=-70, 5-11=-32, 6-11=-232, 2-7=-20
Concentrated Loads (lb)
Vert: 11=-300</p> <p>22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-32, 5-11=-77, 6-11=-277, 2-7=-20
Concentrated Loads (lb)
Vert: 11=-300</p> <p>23) Dead: Lumber Increase=0.90, Plate Increase=0.90
Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-20, 5-11=-20, 6-11=-220, 2-7=-20
Concentrated Loads (lb)
Vert: 11=-300</p> <p>24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)</p> | <p>Standard</p> <p>Vert: 1-2=-27, 2-4=-31, 5-11=-42, 6-11=-242, 2-7=-20
Horz: 2-4=-19, 4-5=19, 6-7=6
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-4=-40, 5-11=-31, 6-11=-231, 2-7=-20
Horz: 2-4=-10, 4-5=-6, 6-7=-19
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-4=-31, 5-11=-42, 6-11=-242, 2-7=-20
Horz: 2-4=-19, 4-5=-19, 6-7=5
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-39, 2-4=-42, 5-11=-31, 6-11=-231, 2-7=-20
Horz: 2-4=-8, 4-5=-8, 6-7=-17
Concentrated Loads (lb)
Vert: 11=-300</p> <p>28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-4=-31, 5-11=-42, 6-11=-242, 2-7=-20
Horz: 2-4=-19, 4-5=19, 6-7=6
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>29) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-4=-40, 5-11=-31, 6-11=-231, 2-7=-20
Horz: 2-4=-10, 4-5=-6, 6-7=-19
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>30) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-4=-31, 5-11=-42, 6-11=-242, 2-7=-20
Horz: 2-4=-19, 4-5=-19, 6-7=5
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 11=-300</p> <p>31) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-39, 2-4=-42, 5-11=-31, 6-11=-231, 2-7=-20
Horz: 2-4=-8, 4-5=-8, 6-7=-17
Concentrated Loads (lb)
Vert: 11=-300</p> <p>32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)</p> |
|--|--|---|

Continued on page 3

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	R09	Half Hip Supported	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:31:44 2022 Page 3
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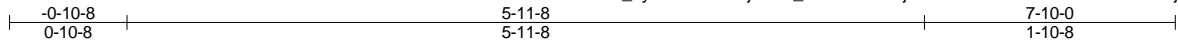
LOAD CASE(S)

Standard	Standard	Standard
Uniform Loads (plf) Vert: 1-4=-60, 5-11=-60, 6-11=-260, 2-7=-20 Concentrated Loads (lb) Vert: 11=-300	Vert: 1-2=-58, 2-4=-62, 5-11=-10, 6-11=-210, 2-7=-20 Horz: 2-4=-10, 4-5=-6, 6-7=-19 Drag: 1-2=-0 Concentrated Loads (lb) Vert: 11=-300	Vert: 1-4=-20, 5-11=-50, 6-11=-250, 2-7=-20 Concentrated Loads (lb) Vert: 11=-300
33) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=6, 2-4=-26, 5-11=-26, 6-11=-226, 2-7=-10 Horz: 2-4=16, 4-5=16, 6-7=-16 Drag: 1-2=-0 Concentrated Loads (lb) Vert: 11=-300	43) 11th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6 MWFERS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-6, 2-4=-10, 5-11=-64, 6-11=-264, 2-7=-20 Horz: 2-4=-19, 4-5=-19, 6-7=5 Drag: 1-2=-0 Concentrated Loads (lb) Vert: 11=-300	
34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-4=6, 5-11=6, 6-11=-194, 2-7=-10 Horz: 2-4=-16, 4-5=-16, 6-7=16 Drag: 1-2=-0 Concentrated Loads (lb) Vert: 11=-300	44) 12th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6 MWFERS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-49, 2-4=-53, 5-11=-21, 6-11=-221, 2-7=-20 Horz: 2-4=-19, 4-5=-19, 6-7=5 Drag: 1-2=-0 Concentrated Loads (lb) Vert: 11=-300	
35) 3rd Unbal.Death + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-32, 5-11=-89, 6-11=-289, 2-7=-20 Concentrated Loads (lb) Vert: 11=-300	45) 13th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6 MWFERS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-18, 2-4=-21, 5-11=-53, 6-11=-253, 2-7=-20 Horz: 2-4=-8, 4-5=-8, 6-7=-17 Concentrated Loads (lb) Vert: 11=-300	
36) 4th Unbal.Death + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-89, 5-11=-32, 6-11=-232, 2-7=-20 Concentrated Loads (lb) Vert: 11=-300	46) 14th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6 MWFERS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-61, 2-4=-64, 5-11=-10, 6-11=-210, 2-7=-20 Horz: 2-4=-8, 4-5=-8, 6-7=-17 Concentrated Loads (lb) Vert: 11=-300	
37) 5th Unbal.Death + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-29, 5-11=-72, 6-11=-272, 2-7=-20 Concentrated Loads (lb) Vert: 11=-300	47) 15th Unbal.Death + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-32, 5-11=-89, 6-11=-289, 2-7=-20 Concentrated Loads (lb) Vert: 11=-300	
38) 6th Unbal.Death + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-72, 5-11=-29, 6-11=-229, 2-7=-20 Concentrated Loads (lb) Vert: 11=-300	48) 16th Unbal.Death + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-89, 5-11=-32, 6-11=-232, 2-7=-20 Concentrated Loads (lb) Vert: 11=-300	
39) 7th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6 MWFERS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-6, 2-4=-10, 5-11=-64, 6-11=-264, 2-7=-20 Horz: 2-4=-19, 4-5=19, 6-7=6 Drag: 1-2=-0 Concentrated Loads (lb) Vert: 11=-300	49) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-60, 5-11=-20, 6-11=-220, 2-7=-20 Concentrated Loads (lb) Vert: 11=-300	
40) 8th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6 MWFERS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-49, 2-4=-53, 5-11=-21, 6-11=-221, 2-7=-20 Horz: 2-4=-19, 4-5=19, 6-7=6 Drag: 1-2=-0 Concentrated Loads (lb) Vert: 11=-300	50) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-20, 5-11=-60, 6-11=-260, 2-7=-20 Concentrated Loads (lb) Vert: 11=-300	
41) 9th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6 MWFERS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-16, 2-4=-19, 5-11=-53, 6-11=-253, 2-7=-20 Horz: 2-4=-10, 4-5=-6, 6-7=-19 Drag: 1-2=-0 Concentrated Loads (lb) Vert: 11=-300	51) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-50, 5-11=-20, 6-11=-220, 2-7=-20 Concentrated Loads (lb) Vert: 11=-300	
42) 10th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6 MWFERS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)	52) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)	

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	R10	Half Hip	8	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:31:47 2022 Page 1
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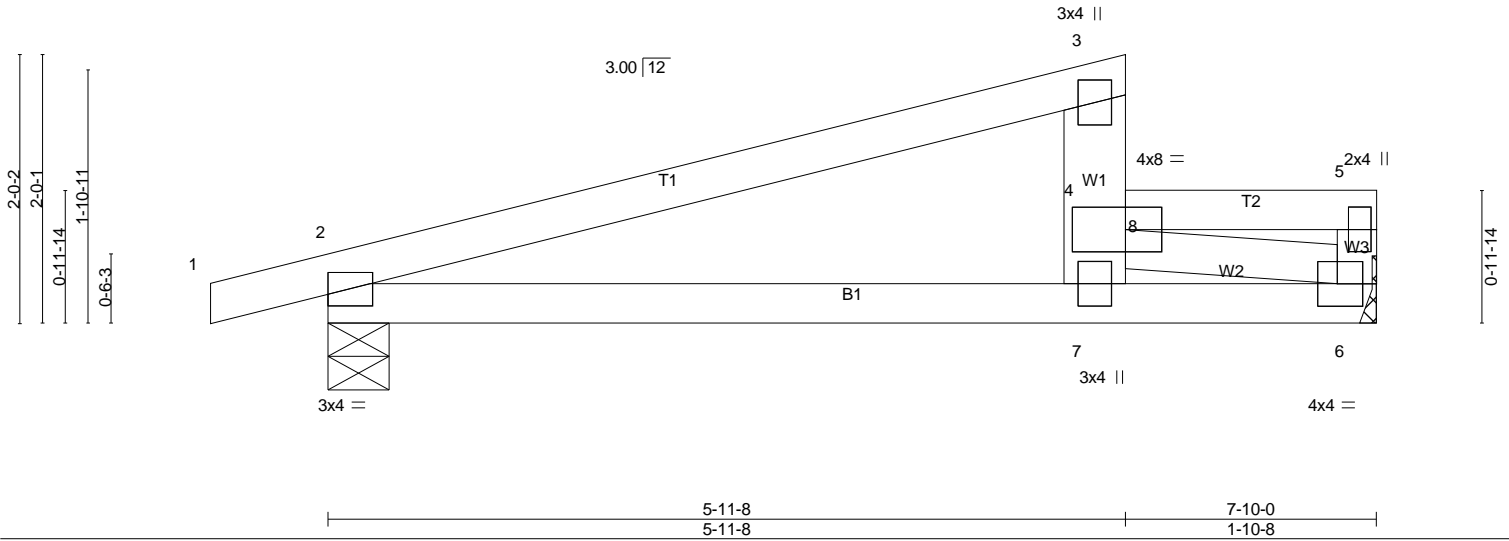


Plate Offsets (X,Y)-- [4:0-3-4,0-2-0], [5:0-2-0,0-1-0], [6:0-1-12,0-2-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL) -0.03	2-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.50	Vert(CT) -0.09	2-7	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.26	Horz(CT) 0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH						
							Weight: 31 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD
 Structural wood sheathing directly applied or 4-11-11 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size)

6 = 808/Mechanical
 2 = 463/0-5-8 (min. 0-1-8)
 Max Horz
 2 = 81(LC 14)
 Max Uplift
 2 = -2(LC 10)
 Max Grav
 6 = 817(LC 36)
 2 = 592(LC 36)

FORCES. (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-3=-841/0, 5-6=-372/0
 BOT CHORD
 2-7=0/739, 6-7=0/1367
 WEBS
 4-6=-1260/0

NOTES- (13-14)

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 7-8-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

- 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
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 4-8=-60, 5-8=-260, 2-6=-20
 Concentrated Loads (lb)
 Vert: 8=-300
 - 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 4-8=-60, 5-8=-260, 2-6=-20
 Concentrated Loads (lb)
 Vert: 8=-300
 - 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-50, 4-8=-50, 5-8=-250, 2-6=-20
 Concentrated Loads (lb)
 Vert: 8=-300
 - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-50, 4-8=-50, 5-8=-250, 2-6=-20
 Concentrated Loads (lb)
 Vert: 8=-300
 - 5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-58, 4-8=-29, 5-8=-229, 2-6=-20
 Concentrated Loads (lb)

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	R10	Half Hip	8	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:31:47 2022 Page 2
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LOAD CASE(S)

- | | | |
|---|--|--|
| <p>Standard</p> <p>Concentrated Loads (lb)
Vert: 8=-300</p> <p>6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-29, 4-8=-63, 5-8=-263, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-300</p> <p>7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 4-8=-20, 5-8=-220, 2-6=-40
Concentrated Loads (lb)
Vert: 8=-300</p> <p>8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-3=-5, 4-8=-5, 5-8=-205, 2-6=-10
Horz: 2-3=-5, 3-4=-42, 5-6=35
Concentrated Loads (lb)
Vert: 8=-300</p> <p>9) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-3=-42, 4-8=-42, 5-8=-242, 2-6=-20
Horz: 2-3=22, 3-4=22, 5-6=-32
Concentrated Loads (lb)
Vert: 8=-300</p> <p>10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=38, 2-3=26, 4-8=10, 5-8=-190, 2-6=-10
Horz: 2-3=-36, 3-4=15, 5-6=19
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 8=-300</p> <p>11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-3=13, 4-8=26, 5-8=-174, 2-6=-10
Horz: 2-3=-23, 3-4=-19, 5-6=-15
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 8=-300</p> <p>12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=6, 4-8=10, 5-8=-210, 2-6=-20
Horz: 2-3=-26, 3-4=25, 5-6=9
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 8=-300</p> <p>13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-3=-7, 4-8=6, 5-8=-194, 2-6=-20
Horz: 2-3=-13, 3-4=-9, 5-6=-25
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 8=-300</p> <p>14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-3=26, 4-8=10, 5-8=-190, 2-6=-10
Horz: 2-3=-36, 3-4=-36, 5-6=17
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 8=-300</p> <p>15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-3=10, 4-8=26, 5-8=-174, 2-6=-10
Horz: 2-3=-20, 3-4=-20, 5-6=-12
Concentrated Loads (lb)
Vert: 8=-300</p> <p>16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60</p> | <p>Standard</p> <p>Uniform Loads (plf)
Vert: 1-2=21, 2-3=26, 4-8=10, 5-8=-190, 2-6=-10
Horz: 2-3=-36, 3-4=-36, 5-6=17
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 8=-300</p> <p>17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-3=10, 4-8=26, 5-8=-174, 2-6=-10
Horz: 2-3=-20, 3-4=-20, 5-6=-12
Concentrated Loads (lb)
Vert: 8=-300</p> <p>18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=6, 4-8=-10, 5-8=-210, 2-6=-20
Horz: 2-3=-26, 3-4=-26, 5-6=7
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 8=-300</p> <p>19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-5, 2-3=-10, 4-8=6, 5-8=-194, 2-6=-20
Horz: 2-3=-10, 3-4=-10, 5-6=-23
Concentrated Loads (lb)
Vert: 8=-300</p> <p>20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-100, 2-3=-20, 4-8=-20, 5-8=-220, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-300</p> <p>21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-71, 4-8=-32, 5-8=-232, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-300</p> <p>22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-32, 4-8=-77, 5-8=-277, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-300</p> <p>23) Dead: Lumber Increase=0.90, Plate Increase=0.90
Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 4-8=-20, 5-8=-220, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-300</p> <p>24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-3=-31, 4-8=-42, 5-8=-242, 2-6=-20
Horz: 2-3=-19, 3-4=19, 5-6=6
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 8=-300</p> <p>25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-3=-40, 4-8=-31, 5-8=-231, 2-6=-20
Horz: 2-3=-10, 3-4=-6, 5-6=-19
Concentrated Loads (lb)
Vert: 8=-300</p> <p>26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)</p> | <p>Standard</p> <p>Vert: 1-2=-27, 2-3=-31, 4-8=-42, 5-8=-242, 2-6=-20
Horz: 2-3=-19, 3-4=-19, 5-6=5
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 8=-300</p> <p>27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-39, 2-3=-42, 4-8=-31, 5-8=-231, 2-6=-20
Horz: 2-3=-8, 3-4=-8, 5-6=-17
Concentrated Loads (lb)
Vert: 8=-300</p> <p>28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-3=-31, 4-8=-42, 5-8=-242, 2-6=-20
Horz: 2-3=-10, 3-4=19, 5-6=6
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 8=-300</p> <p>29) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-3=-40, 4-8=-31, 5-8=-231, 2-6=-20
Horz: 2-3=-10, 3-4=-6, 5-6=-19
Concentrated Loads (lb)
Vert: 8=-300</p> <p>30) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-3=-31, 4-8=-42, 5-8=-242, 2-6=-20
Horz: 2-3=-19, 3-4=-19, 5-6=5
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 8=-300</p> <p>31) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-39, 2-3=-42, 4-8=-31, 5-8=-231, 2-6=-20
Horz: 2-3=-8, 3-4=-8, 5-6=-17
Concentrated Loads (lb)
Vert: 8=-300</p> <p>32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 4-8=-60, 5-8=-260, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-300</p> <p>33) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=-26, 4-8=-26, 5-8=-226, 2-6=-10
Horz: 2-3=16, 3-4=16, 5-6=-16
Concentrated Loads (lb)
Vert: 8=-300</p> <p>34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=6, 4-8=6, 5-8=-194, 2-6=-10
Horz: 2-3=-16, 3-4=-16, 5-6=16
Concentrated Loads (lb)
Vert: 8=-300</p> <p>35) 3rd Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-32, 4-8=-89, 5-8=-289, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-300</p> <p>36) 4th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-89, 4-8=-32, 5-8=-232, 2-6=-20</p> |
|---|--|--|

Continued on page 3

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	R10	Half Hip	8	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:31:47 2022 Page 3
ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-Z48JA823ATV2sfV7xaivbc2?GNGJAmjBpBhASBzQUQA

LOAD CASE(S)

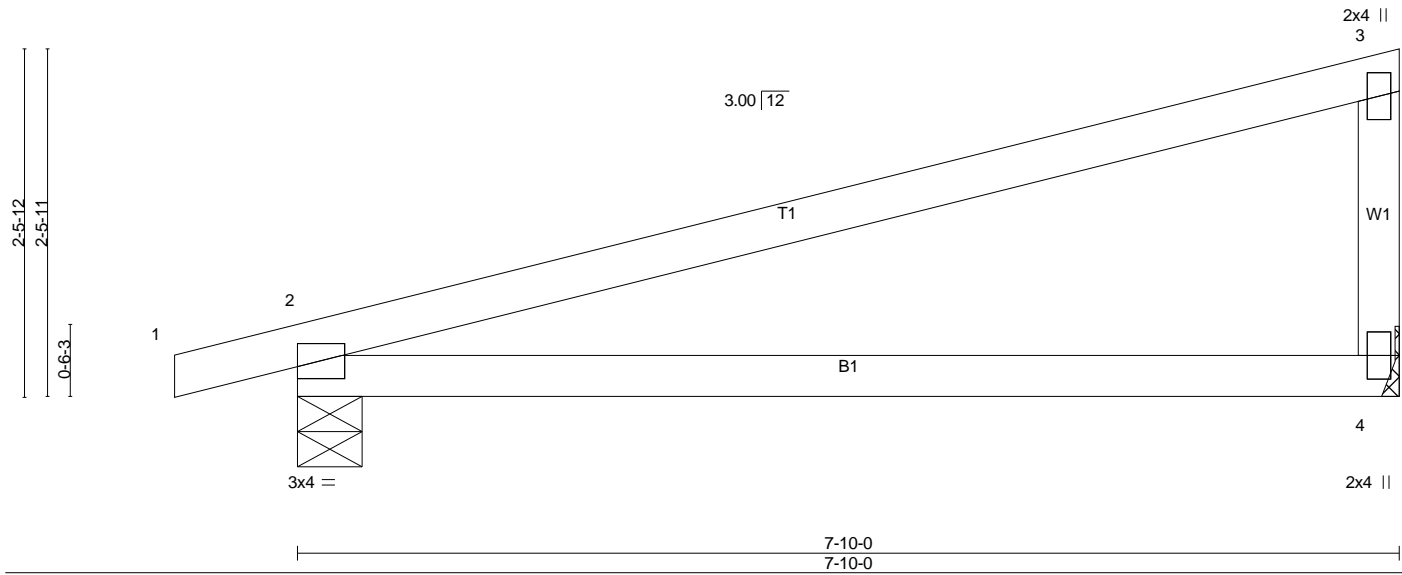
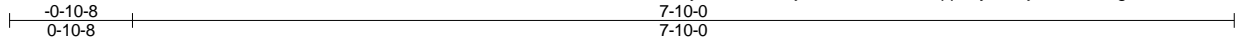
- Standard
- Concentrated Loads (lb)
Vert: 8=-300
 - 37) 5th Unbal.Death + 0.75 Snow (balanced) + Parallel:
Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-29, 4-8=-72, 5-8=-272, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-300
 - 38) 6th Unbal.Death + 0.75 Snow (balanced) + Parallel:
Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-72, 4-8=-29, 5-8=-229, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-300
 - 39) 7th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) Left) + Parallel: Lumber
Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-3=-10, 4-8=-64, 5-8=-264, 2-6=-20
Horz: 2-3=-19, 3-4=19, 5-6=6
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 8=-300
 - 40) 8th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) Left) + Parallel: Lumber
Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-3=-53, 4-8=-21, 5-8=-221, 2-6=-20
Horz: 2-3=-19, 3-4=19, 5-6=6
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 8=-300
 - 41) 9th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) Right) + Parallel: Lumber
Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-19, 4-8=-53, 5-8=-253, 2-6=-20
Horz: 2-3=-10, 3-4=-6, 5-6=-19
Concentrated Loads (lb)
Vert: 8=-300
 - 42) 10th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) Right) + Parallel: Lumber
Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-58, 2-3=-62, 4-8=-10, 5-8=-210, 2-6=-20
Horz: 2-3=-10, 3-4=-6, 5-6=-19
Concentrated Loads (lb)
Vert: 8=-300
 - 43) 11th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) 1st Parallel): Lumber
Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-3=-10, 4-8=-64, 5-8=-264, 2-6=-20
Horz: 2-3=-19, 3-4=-19, 5-6=5
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 8=-300
 - 44) 12th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) 1st Parallel): Lumber
Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-3=-53, 4-8=-21, 5-8=-221, 2-6=-20
Horz: 2-3=-19, 3-4=-19, 5-6=5
Drag: 1-2=0
Concentrated Loads (lb)
Vert: 8=-300
 - 45) 13th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) 2nd Parallel): Lumber
Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-18, 2-3=-21, 4-8=-53, 5-8=-253, 2-6=-20
Horz: 2-3=-8, 3-4=-8, 5-6=-17
Concentrated Loads (lb)
Vert: 8=-300
 - 46) 14th Unbal.Death + 0.75 Snow (unbal.) + 0.75(0.6
MWFRS Wind (Neg. Int) 2nd Parallel): Lumber
Increase=1.60, Plate Increase=1.60

- Standard
- Uniform Loads (plf)
Vert: 1-2=-61, 2-3=-64, 4-8=-10, 5-8=-210, 2-6=-20
Horz: 2-3=-8, 3-4=-8, 5-6=-17
 - Concentrated Loads (lb)
Vert: 8=-300
 - 47) 15th Unbal.Death + Minimum Snow + Parallel:
Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-32, 4-8=-89, 5-8=-289, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-300
 - 48) 16th Unbal.Death + Minimum Snow + Parallel:
Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-89, 4-8=-32, 5-8=-232, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-300
 - 49) 1st Dead + Roof Live (unbalanced): Lumber
Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 4-8=-20, 5-8=-220, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-300
 - 50) 2nd Dead + Roof Live (unbalanced): Lumber
Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 4-8=-60, 5-8=-260, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-300
 - 51) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber
Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 4-8=-20, 5-8=-220, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-300
 - 52) 4th Dead + 0.75 Roof Live (unbalanced): Lumber
Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 4-8=-50, 5-8=-250, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-300

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	R11	Monopitch	2	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:31:50 2022 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	Vert(LL) -0.19	2-4	>482	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.74	Vert(CT) -0.37	2-4	>241	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT) -0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2018/TPI2014						Weight: 28 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP SS
 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)

4	=	293/Mechanical
2	=	369/0-5-8 (min. 0-1-8)
Max Horz		
2	=	81(LC 11)
Max Uplift		
4	=	-63(LC 14)
2	=	-99(LC 10)
Max Grav		
4	=	381(LC 21)
2	=	458(LC 21)

FORCES. (lb)

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

TOP CHORD

3-4=-307/100

NOTES- (10-11)

1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft;
 Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

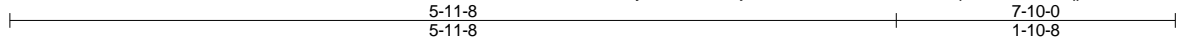
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 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

Job 22-2666-R01	Truss R12	Truss Type Half Hip	Qty 1	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:31:53 2022 Page 1
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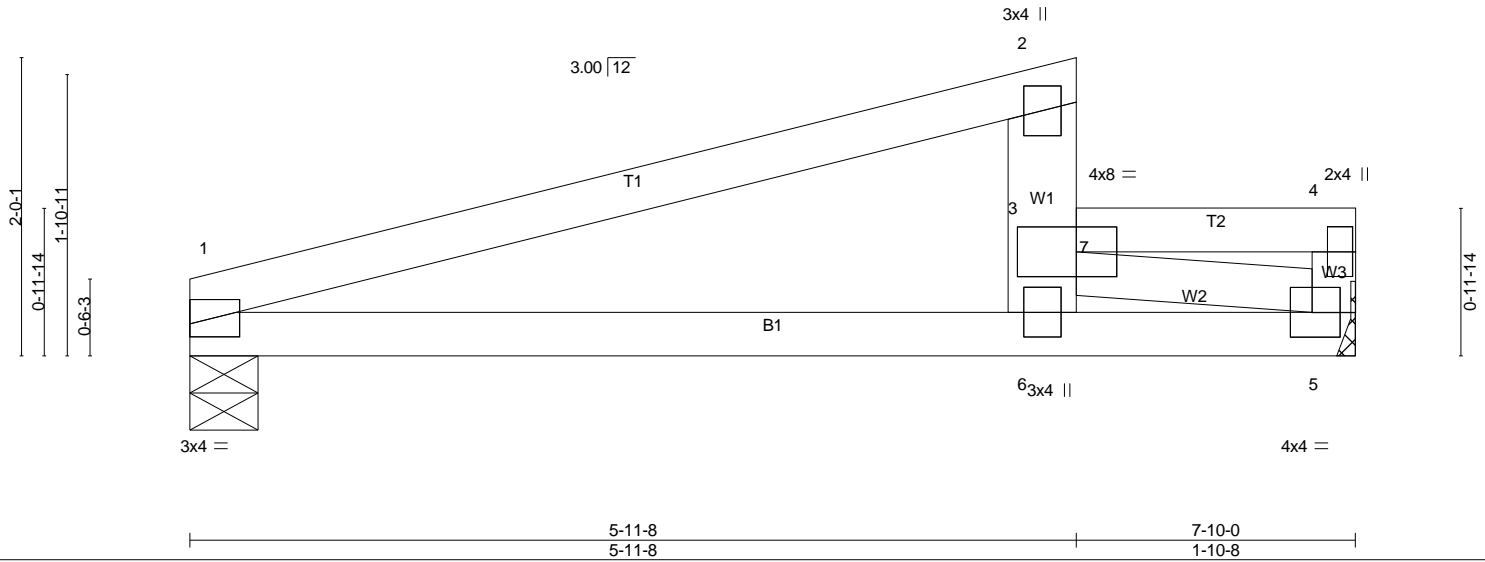


Plate Offsets (X,Y)-- [3:0-3-4,0-2-0], [4:0-2-0,0-1-4], [5:0-1-12,0-2-0]	
LOADING (psf)	SPACING- 2-0-0
TCLL 20.0	Plate Grip DOL 1.15
TCDL 10.0	Lumber DOL 1.15
BCLL 0.0 *	Rep Stress Incr NO
BCDL 10.0	Code IRC2018/TPI2014
CSL	DEFL. in (loc) l/defl L/d
TC 0.68	Vert(LL) -0.04 1-6 >999 240
BC 0.56	Vert(CT) -0.10 1-6 >929 180
WB 0.27	Horz(CT) 0.01 5 n/a n/a
Matrix-SH	
PLATES	GRIP
MT20	244/190
Weight: 30 lb FT = 0%	

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

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 4-9-8 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)
 1 = 392/0-5-8 (min. 0-1-8)
 5 = 813/Mechanical
 Max Horz
 1 = 86(LC 14)
 Max Grav
 1 = 487(LC 35)
 5 = 824(LC 35)

FORCES. (lb)
 Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 1-2=-861/0, 4-5=-373/0
 BOT CHORD
 1-6=0/759, 5-6=0/1386
 WEBS
 3-5=-1279/0

NOTES- (11-12)
 1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-2-12 to 7-8-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 4) Unbalanced snow loads have been considered for this design.
 5) 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.
 8) Refer to girder(s) for truss to truss connections.
 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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 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
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 3-7=-60, 4-7=-260, 1-5=-20
 Concentrated Loads (lb)
 Vert: 7=-300
 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 3-7=-60, 4-7=-260, 1-5=-20
 Concentrated Loads (lb)
 Vert: 7=-300
 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-50, 3-7=-50, 4-7=-250, 1-5=-20
 Concentrated Loads (lb)
 Vert: 7=-300
 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-50, 3-7=-50, 4-7=-250, 1-5=-20
 Concentrated Loads (lb)
 Vert: 7=-300
 5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-58, 3-7=-29, 4-7=-229, 1-5=-20
 Concentrated Loads (lb)
 Vert: 7=-300
 6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-29, 3-7=-63, 4-7=-263, 1-5=-20
 Concentrated Loads (lb)
 Vert: 7=-300
 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	R12	Half Hip	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:31:53 2022 Page 2
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LOAD CASE(S)

- | | | |
|--|---|--|
| <p>Standard</p> <p>Uniform Loads (plf)
Vert: 1-2=-20, 3-7=-20, 4-7=-220, 1-5=-40</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=-5, 3-7=-5, 4-7=-205, 1-5=-10
Horz: 1-2=-5, 2-3=-47, 4-5=35</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>9) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=-42, 3-7=-42, 4-7=-242, 1-5=-20
Horz: 1-2=22, 2-3=27, 4-5=-32</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=26, 3-7=10, 4-7=-190, 1-5=-10
Horz: 1-2=-36, 2-3=9, 4-5=19</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=13, 3-7=26, 4-7=-174, 1-5=-10
Horz: 1-2=-23, 2-3=-24, 4-5=-15</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=6, 3-7=-10, 4-7=-210, 1-5=-20
Horz: 1-2=-26, 2-3=30, 4-5=9</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=-7, 3-7=6, 4-7=-194, 1-5=-20
Horz: 1-2=-13, 2-3=-3, 4-5=-25</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=26, 3-7=10, 4-7=-190, 1-5=-10
Horz: 1-2=-36, 2-3=-41, 4-5=17</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=10, 3-7=26, 4-7=-174, 1-5=-10
Horz: 1-2=-20, 2-3=-26, 4-5=-12</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=26, 3-7=10, 4-7=-190, 1-5=-10
Horz: 1-2=-36, 2-3=-41, 4-5=17</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=10, 3-7=26, 4-7=-174, 1-5=-10
Horz: 1-2=-20, 2-3=-26, 4-5=-12</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)</p> | <p>Standard</p> <p>Vert: 1-2=6, 3-7=-10, 4-7=-210, 1-5=-20
Horz: 1-2=-26, 2-3=-20, 4-5=7</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=-10, 3-7=6, 4-7=-194, 1-5=-20
Horz: 1-2=-10, 2-3=-5, 4-5=-23</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>20) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15</p> <p>Uniform Loads (plf)
Vert: 1-2=-70, 3-7=-32, 4-7=-232, 1-5=-20
Concentrated Loads (lb)
Vert: 7=-300</p> <p>21) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15</p> <p>Uniform Loads (plf)
Vert: 1-2=-32, 3-7=-77, 4-7=-277, 1-5=-20
Concentrated Loads (lb)
Vert: 7=-300</p> <p>22) Dead: Lumber Increase=0.90, Plate Increase=0.90</p> <p>Plt. metal=0.90</p> <p>Uniform Loads (plf)
Vert: 1-2=-20, 3-7=-20, 4-7=-220, 1-5=-20
Concentrated Loads (lb)
Vert: 7=-300</p> <p>23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=-31, 3-7=-42, 4-7=-242, 1-5=-20
Horz: 1-2=-19, 2-3=23, 4-5=6</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=-40, 3-7=-31, 4-7=-231, 1-5=-20
Horz: 1-2=-10, 2-3=-3, 4-5=-19</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=-31, 3-7=-42, 4-7=-242, 1-5=-20
Horz: 1-2=-19, 2-3=-15, 4-5=5</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=-42, 3-7=-31, 4-7=-231, 1-5=-20
Horz: 1-2=-8, 2-3=-4, 4-5=-17</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=-31, 3-7=-42, 4-7=-242, 1-5=-20
Horz: 1-2=-19, 2-3=23, 4-5=6</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=-40, 3-7=-31, 4-7=-231, 1-5=-20
Horz: 1-2=-10, 2-3=-3, 4-5=-19</p> <p>Concentrated Loads (lb)</p> | <p>Standard</p> <p>Vert: 7=-300</p> <p>29) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=-31, 3-7=-42, 4-7=-242, 1-5=-20
Horz: 1-2=-19, 2-3=-15, 4-5=5</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>30) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=-42, 3-7=-31, 4-7=-231, 1-5=-20
Horz: 1-2=-8, 2-3=-4, 4-5=-17</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>31) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15</p> <p>Uniform Loads (plf)
Vert: 1-2=-60, 3-7=-60, 4-7=-260, 1-5=-20
Concentrated Loads (lb)
Vert: 7=-300</p> <p>32) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=-26, 3-7=-26, 4-7=-226, 1-5=-10
Horz: 1-2=16, 2-3=16, 4-5=-16</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>33) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=6, 3-7=6, 4-7=-194, 1-5=-10
Horz: 1-2=-16, 2-3=-16, 4-5=16</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>34) 3rd Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15</p> <p>Uniform Loads (plf)
Vert: 1-2=-32, 3-7=-89, 4-7=-289, 1-5=-20
Concentrated Loads (lb)
Vert: 7=-300</p> <p>35) 4th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15</p> <p>Uniform Loads (plf)
Vert: 1-2=-89, 3-7=-32, 4-7=-232, 1-5=-20
Concentrated Loads (lb)
Vert: 7=-300</p> <p>36) 5th Unbal. Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15</p> <p>Uniform Loads (plf)
Vert: 1-2=-29, 3-7=-72, 4-7=-272, 1-5=-20
Concentrated Loads (lb)
Vert: 7=-300</p> <p>37) 6th Unbal. Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15</p> <p>Uniform Loads (plf)
Vert: 1-2=-72, 3-7=-29, 4-7=-229, 1-5=-20
Concentrated Loads (lb)
Vert: 7=-300</p> <p>38) 7th Unbal. Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=-10, 3-7=-64, 4-7=-264, 1-5=-20
Horz: 1-2=-19, 2-3=23, 4-5=6</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> <p>39) 8th Unbal. Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60</p> <p>Uniform Loads (plf)
Vert: 1-2=-53, 3-7=-21, 4-7=-221, 1-5=-20
Horz: 1-2=-19, 2-3=23, 4-5=6</p> <p>Concentrated Loads (lb)
Vert: 7=-300</p> |
|--|---|--|

Continued on page 3

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	R12	Half Hip	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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LOAD CASE(S)

- Standard
- 40) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-19, 3-7=-53, 4-7=-253, 1-5=-20 Horz: 1-2=-10, 2-3=-3, 4-5=-19 Concentrated Loads (lb) Vert: 7=-300
 - 41) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-62, 3-7=-10, 4-7=-210, 1-5=-20 Horz: 1-2=-10, 2-3=-3, 4-5=-19 Concentrated Loads (lb) Vert: 7=-300
 - 42) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-10, 3-7=-64, 4-7=-264, 1-5=-20 Horz: 1-2=-19, 2-3=-15, 4-5=5 Concentrated Loads (lb) Vert: 7=-300
 - 43) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-53, 3-7=-21, 4-7=-221, 1-5=-20 Horz: 1-2=-19, 2-3=-15, 4-5=5 Concentrated Loads (lb) Vert: 7=-300
 - 44) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-21, 3-7=-53, 4-7=-253, 1-5=-20 Horz: 1-2=-8, 2-3=-4, 4-5=-17 Concentrated Loads (lb) Vert: 7=-300
 - 45) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-64, 3-7=-10, 4-7=-210, 1-5=-20 Horz: 1-2=-8, 2-3=-4, 4-5=-17 Concentrated Loads (lb) Vert: 7=-300
 - 46) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-32, 3-7=-89, 4-7=-289, 1-5=-20 Concentrated Loads (lb) Vert: 7=-300
 - 47) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-89, 3-7=-32, 4-7=-232, 1-5=-20 Concentrated Loads (lb) Vert: 7=-300
 - 48) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-60, 3-7=-20, 4-7=-220, 1-5=-20 Concentrated Loads (lb) Vert: 7=-300
 - 49) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-20, 3-7=-60, 4-7=-260, 1-5=-20 Concentrated Loads (lb) Vert: 7=-300
 - 50) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-50, 3-7=-20, 4-7=-220, 1-5=-20 Concentrated Loads (lb)

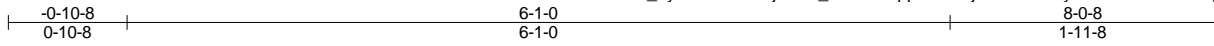
- Standard
- Vert: 7=-300
 - 51) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-20, 3-7=-50, 4-7=-250, 1-5=-20 Concentrated Loads (lb) Vert: 7=-300

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	R13	Half Hip	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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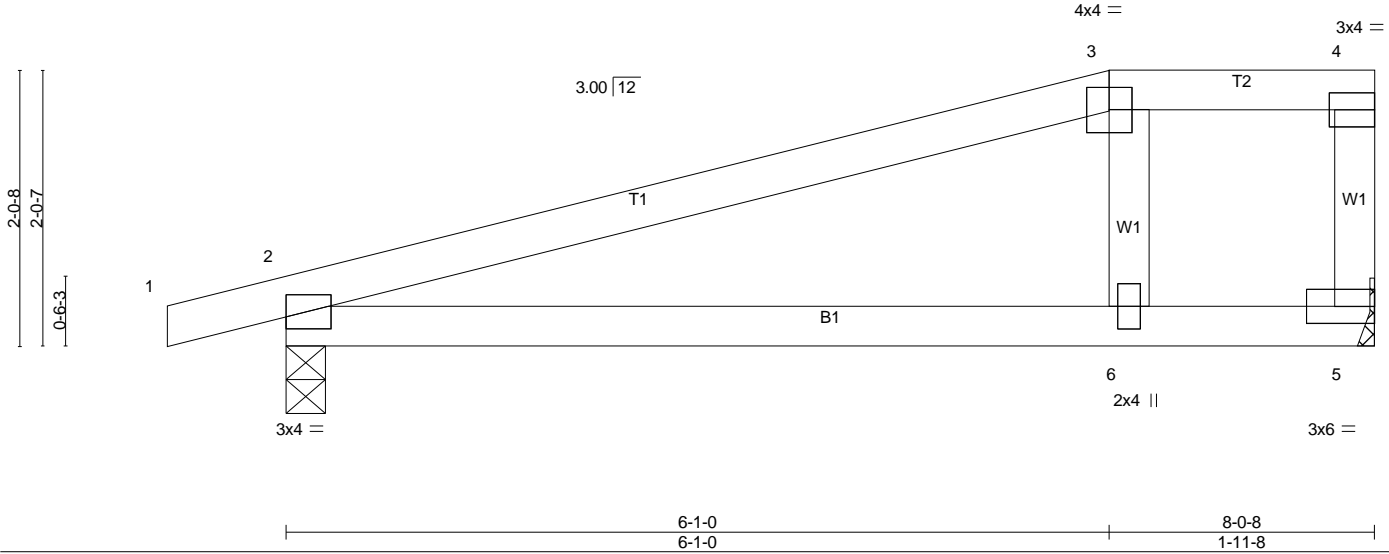


Plate Offsets (X,Y)-- [4:Edge,0-1-8], [5:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.93	Vert(LL) -0.13	2-6	>704	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.25	2-6	>380	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH						
							Weight: 30 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 3-7-9 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size)

5 = 306/Mechanical
 2 = 375/0-3-8 (min. 0-1-8)
 Max Horiz
 2 = 66(LC 13)
 Max Uplift
 5 = -62(LC 10)
 2 = -99(LC 10)
 Max Grav
 5 = 326(LC 36)
 2 = 508(LC 36)

FORCES. (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-3=-357/42, 3-4=-257/54
 BOT CHORD
 2-6=-33/266, 5-6=-28/257

NOTES- (11-12)

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right 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) 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.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- 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.

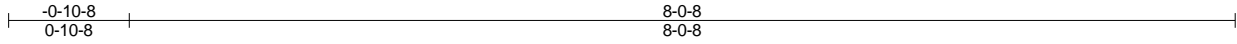
LOAD CASE(S)

Standard

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	R14	Monopitch	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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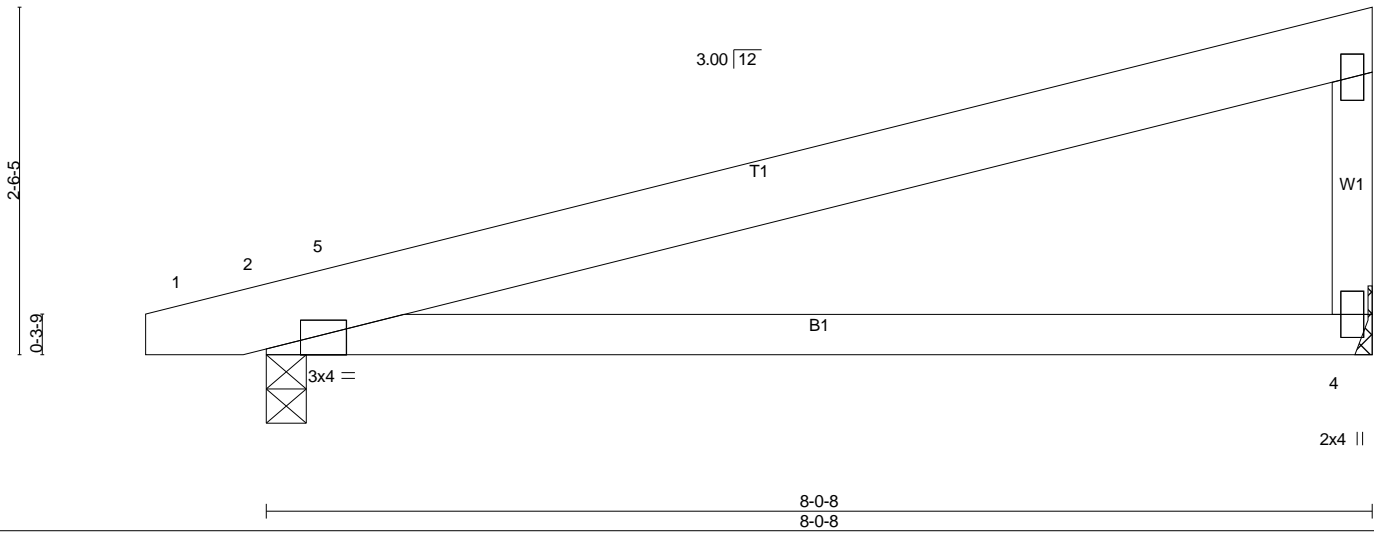


Plate Offsets (X,Y)-- [2:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.72	Vert(LL) -0.22	2-4	>430	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.43	2-4	>215	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P						
							Weight: 36 lb	FT = 0%

LUMBER-

TOP CHORD 2x6 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)

4 = 308/Mechanical
 2 = 352/0-3-8 (min. 0-1-8)
 Max Horz
 2 = 79(LC 11)
 Max Uplift
 4 = -66(LC 14)
 2 = -83(LC 10)
 Max Grav
 4 = 399(LC 21)
 2 = 432(LC 21)

FORCES. (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 3-4=-322/105

NOTES- (10-11)

1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft;
 Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

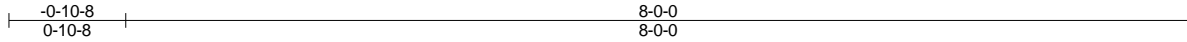
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 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

Job 22-2666-R01	Truss R15	Truss Type Roof Special	Qty 3	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

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8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:32:02 2022 Page 1



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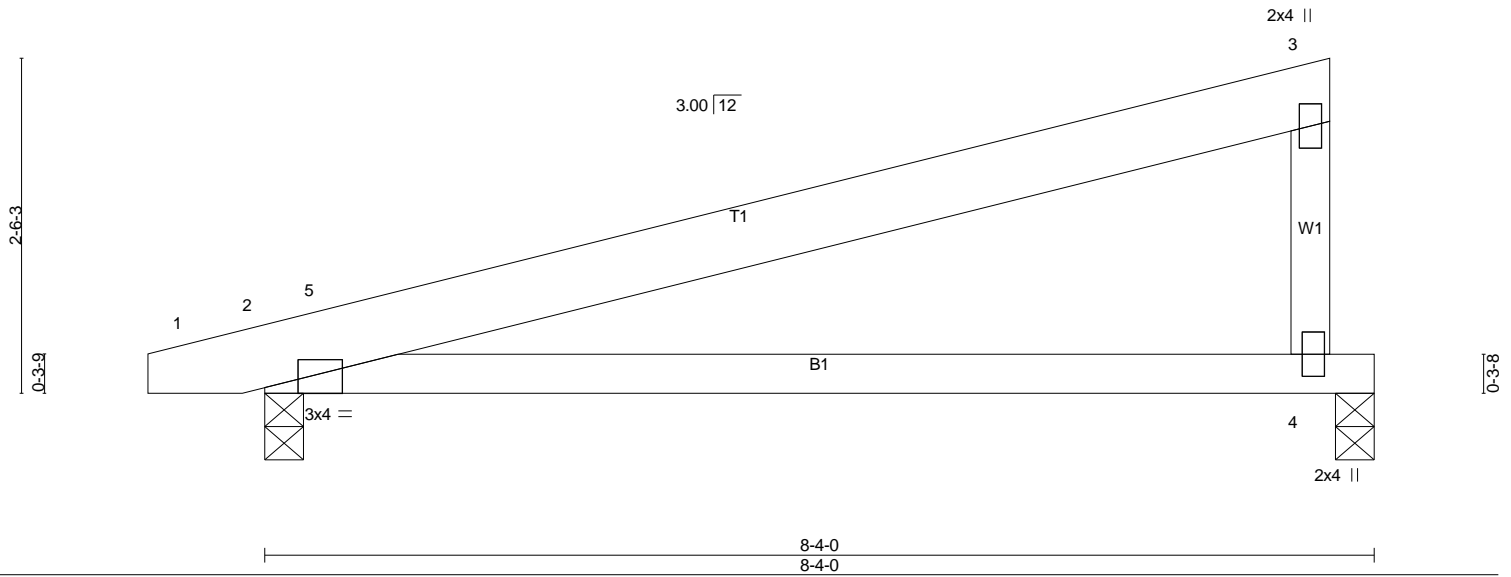


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [4:0-2-0,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.71	Vert(LL) -0.21	2-4	>437	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.42	2-4	>218	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P						
							Weight: 37 lb	FT = 0%

LUMBER-

TOP CHORD 2x6 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)

4 = 307/0-3-8 (min. 0-1-8)
2 = 350/0-3-8 (min. 0-1-8)
Max Horz
2 = 79(LC 11)
Max Uplift
4 = -66(LC 14)
2 = -82(LC 10)
Max Grav
4 = 397(LC 21)
2 = 430(LC 21)

FORCES. (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
3-4=-320/104

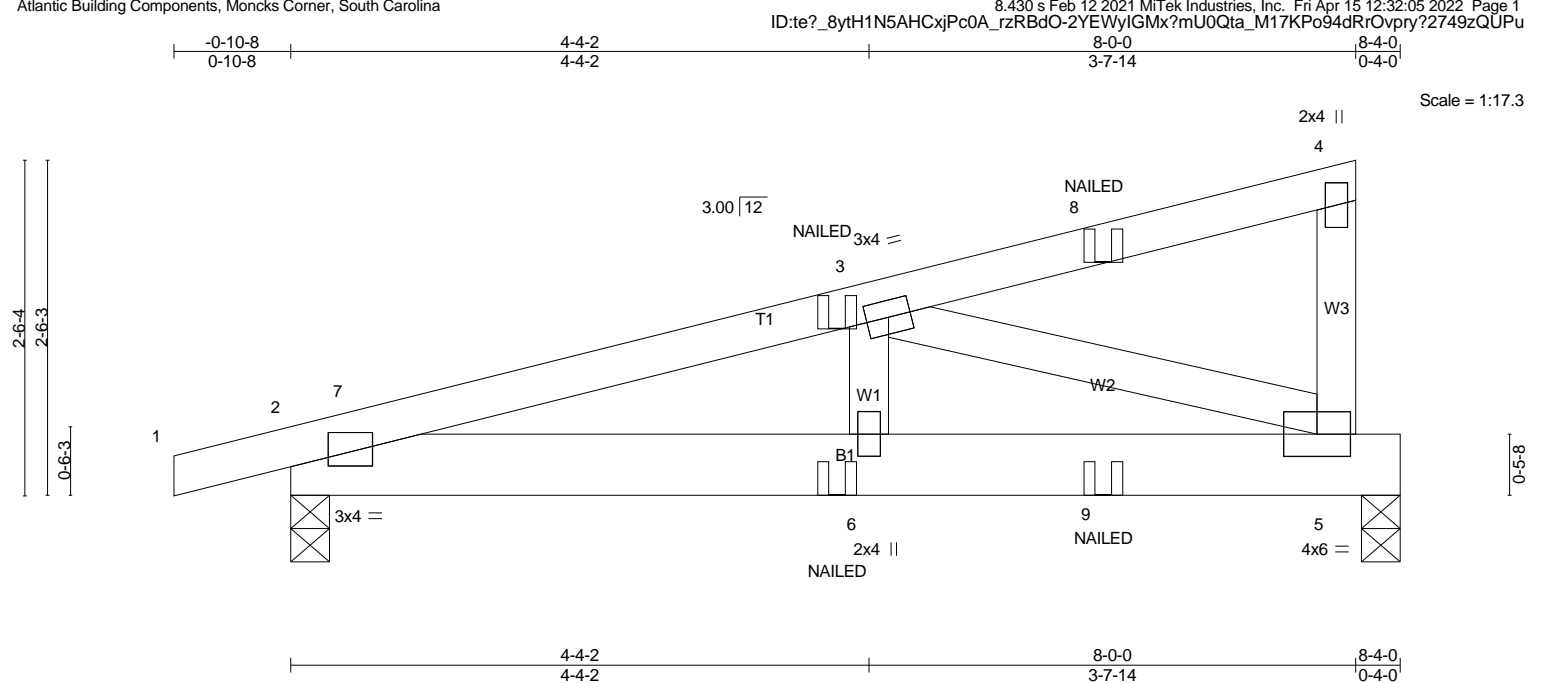
NOTES- (9-10)

1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft;
Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 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



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.02	6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.03	6	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.28	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P						
							Weight: 42 lb	FT = 0%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD
 Structural wood sheathing directly applied or 5-7-3 oc purlins, except end verticals.
 BOT CHORD
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size)

5 =	447/0-3-8 (min. 0-1-8)
2 =	446/0-3-8 (min. 0-1-8)
Max Horz	
2 =	81(LC 9)
Max Uplift	
5 =	-118(LC 12)
2 =	-117(LC 8)
Max Grav	
5 =	525(LC 19)
2 =	515(LC 19)

FORCES. (lb)
 Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 2-7=-969/159, 3-7=-929/169
 BOT CHORD
 2-6=-176/892, 6-9=-176/892,
 5-9=-176/892
 WEBS
 3-6=0/254, 3-5=-945/206

- NOTES-** (11-12)
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=118, 2=117.
 - 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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

- 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
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-60, 2-5=-20
 Concentrated Loads (lb)
 Vert: 3=-34(F) 6=-68(F) 8=22(F) 9=-134(F)

Job 22-2666-R01	Truss R17	Truss Type Half Hip	Qty 1	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
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Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:32:08 2022 Page 1
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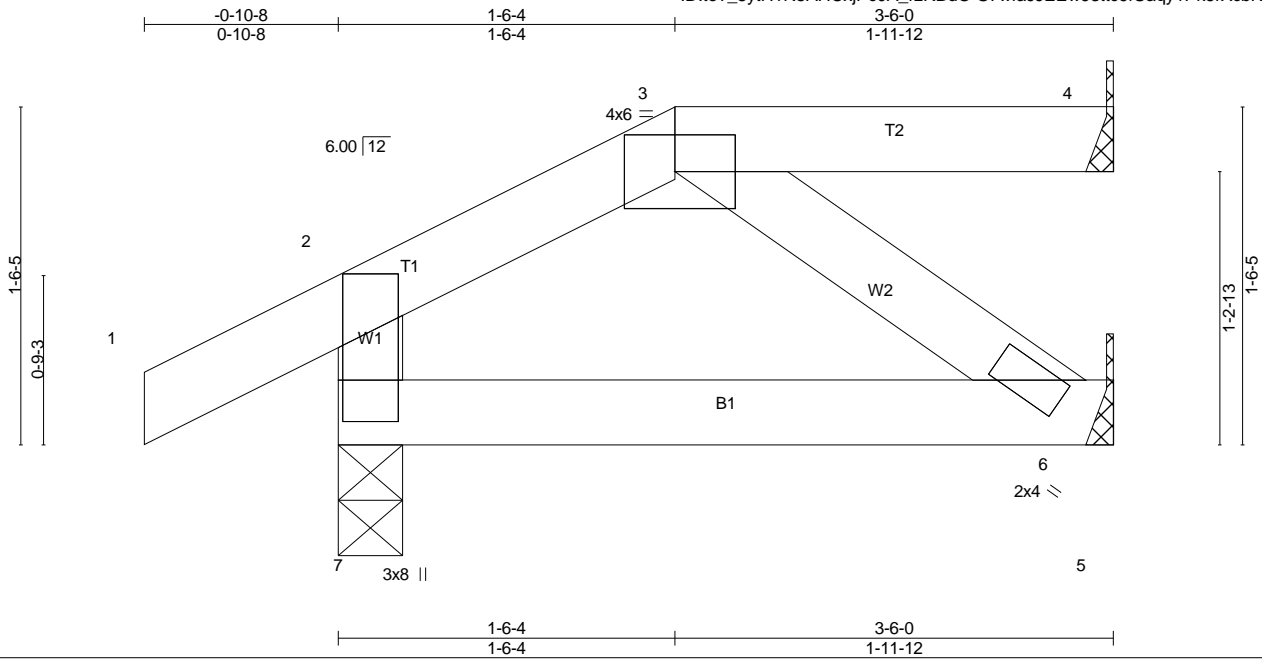


Plate Offsets (X,Y)-- [3:0-3-4,0-2-0]

LOADING (psf)	SPACING-	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL)	-0.00	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT)	-0.01	6-7	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P						
							Weight: 16 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 3-6-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size)

4 =	54/Mechanical
7 =	200/0-3-8 (min. 0-1-8)
6 =	71/Mechanical
Max Horz	
7 =	34(LC 14)
Max Uplift	
4 =	-25(LC 10)
7 =	-34(LC 14)
6 =	-3(LC 11)
Max Grav	
4 =	91(LC 35)
7 =	278(LC 36)
6 =	88(LC 35)

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=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7, 6.
- 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) 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.

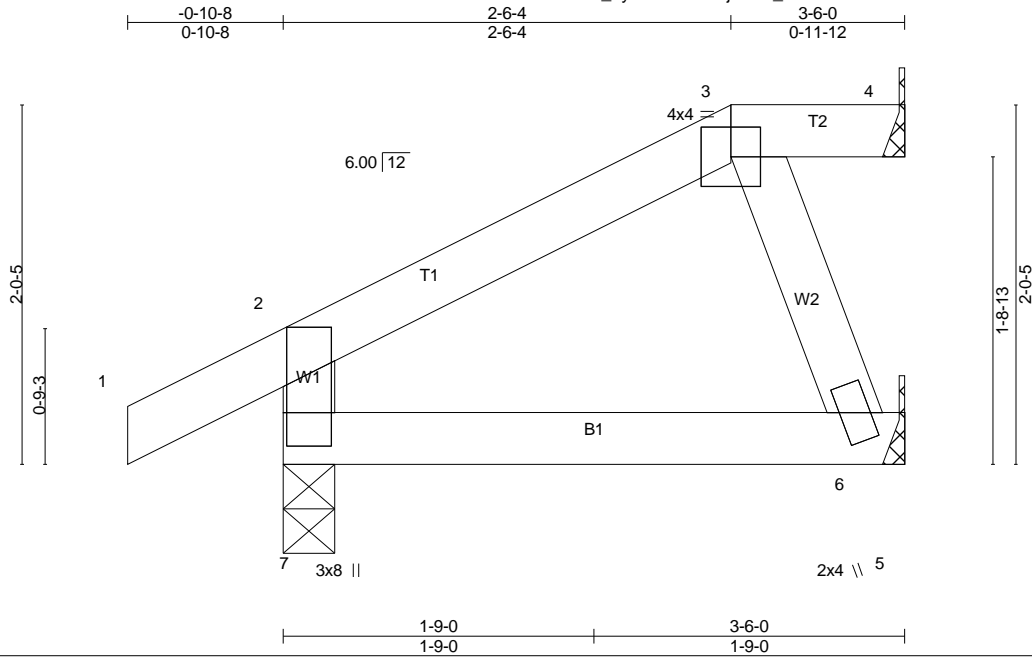
LOAD CASE(S)

Standard

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	R18	Half Hip	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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Scale = 1:13.0

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 0.12	Vert(LL)	-0.00 6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.01 6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 15 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 3-6-0 oc purlins, except end verticals.

BOT CHORD

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

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

REACTIONS. (lb/size)

4	=	7/Mechanical
7	=	196/0-3-8 (min. 0-1-8)
6	=	123/Mechanical
Max Horz		
7	=	52(LC 14)
Max Uplift		
4	=	-23(LC 40)
7	=	-31(LC 14)
6	=	-38(LC 14)
Max Grav		
4	=	33(LC 35)
7	=	303(LC 36)
6	=	154(LC 36)

FORCES. (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-7=-265/51

NOTES- (12-13)

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7, 6.
- 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.

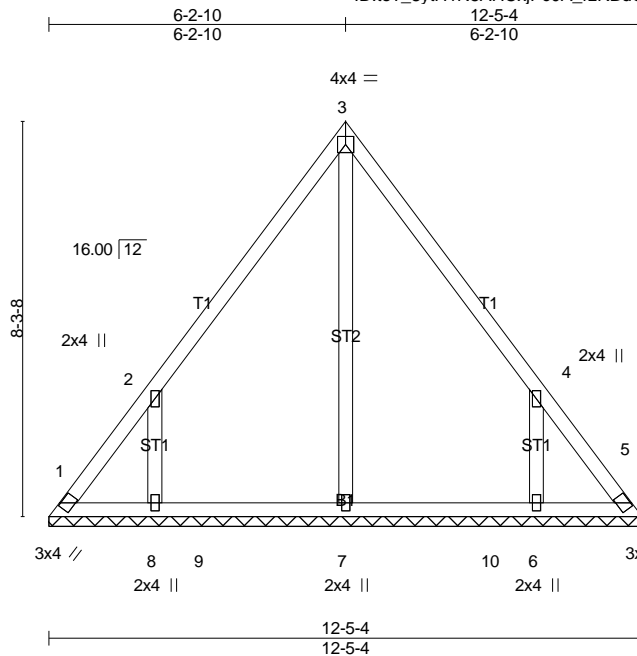
- 12) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- 13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the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

LOAD CASE(S)

Standard

Job 22-2666-R01	Truss VT01	Truss Type Valley	Qty 1	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:32:14 2022 Page 1
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Scale: 1/4"=1'

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 0.21	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH						
								Weight: 66 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 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 12-5-4.

(lb) - Max Horz
 1= 196(LC 9)
 Max Uplift
 All uplift 100 lb or less at joint(s)
 5 except 1=113(LC 10), 8=305(LC 12),
 6=305(LC 13)
 Max Grav
 All reactions 250 lb or less at joint(s)
 1, 5 except 7=398(LC 22), 8=434(LC 19),
 6=434(LC 20)

FORCES. (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD
 1-2=-266/193
 WEBS
 2-8=-387/343, 4-6=-387/343

NOTES- (9-10)

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) 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) 5 except (jt=lb) 1=113, 8=305, 6=305.
- 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.

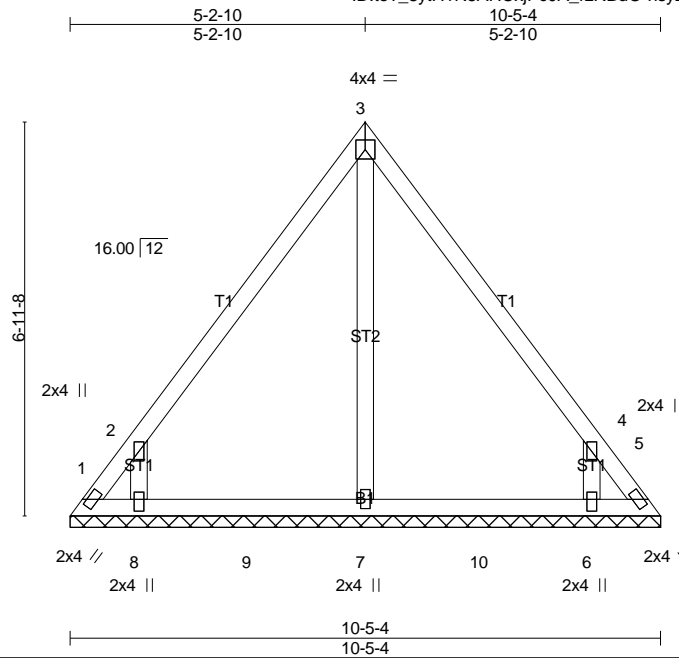
LOAD CASE(S)

Standard

Job 22-2666-R01	Truss VT02	Truss Type Valley	Qty 1	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
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Atlantic Building Components, Moncks Corner, South Carolina

Job Reference (optional)
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Scale = 1:40.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH						
	Code IRC2018/TPI2014						Weight: 53 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 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 10-5-4.

(lb) - Max Horz

1=-163(LC 8)

Max Uplift

All uplift 100 lb or less at joint(s)

except 1=-193(LC 10), 5=-171(LC 11),

8=-335(LC 12), 6=-335(LC 13)

Max Grav

All reactions 250 lb or less at joint(s)

5 except 1=263(LC 12), 7=344(LC 19),

8=443(LC 19), 6=442(LC 20)

FORCES. (lb)

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

TOP CHORD

1-2=-322/227, 4-5=-305/227

WEBS

2-8=-455/402, 4-6=-455/402

NOTES- (9-10)

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft;
Cat. II; Exp B; Enclosed; MWFRS (envelope) gable
end zone and C-C Exterior(2) zone; 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) 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 193 lb uplift
at joint 1, 171 lb uplift at joint 5, 335 lb uplift at joint 8
and 335 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.

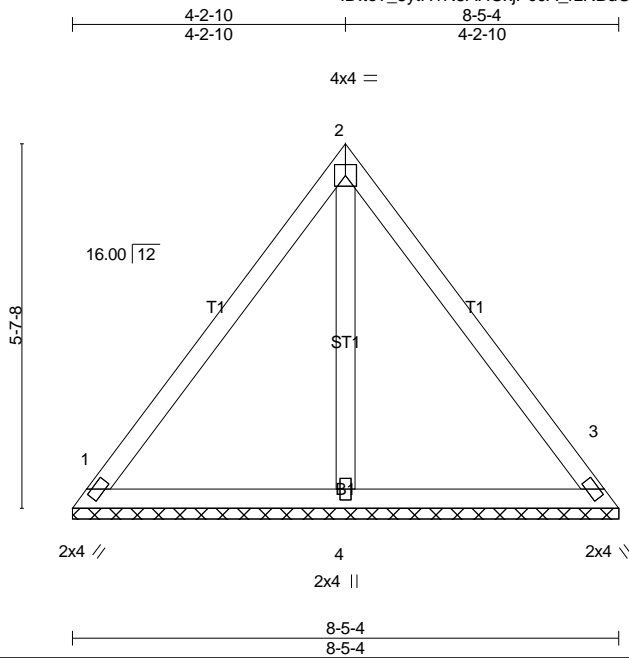
10) Bearing symbols are only graphical
representations of a possible bearing condition.
Bearing symbols are not considered in the
structural design of the truss to support the loads
indicated.

LOAD CASE(S)

Standard

Job 22-2666-R01	Truss VT03	Truss Type Valley	Qty 1	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

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Scale = 1:35.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2018/TPI2014							
							Weight: 40 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 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 = 203/8-5-4 (min. 0-1-8)

3 = 203/8-5-4 (min. 0-1-8)

4 = 223/8-5-4 (min. 0-1-8)

Max Horz

1 = 130(LC 9)

Max Uplift

1 = -65(LC 13)

3 = -54(LC 12)

Max Grav

1 = 203(LC 1)

3 = 203(LC 1)

4 = 238(LC 5)

FORCES. (lb)

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

LOAD CASE(S)

Standard

NOTES- (9-10)

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

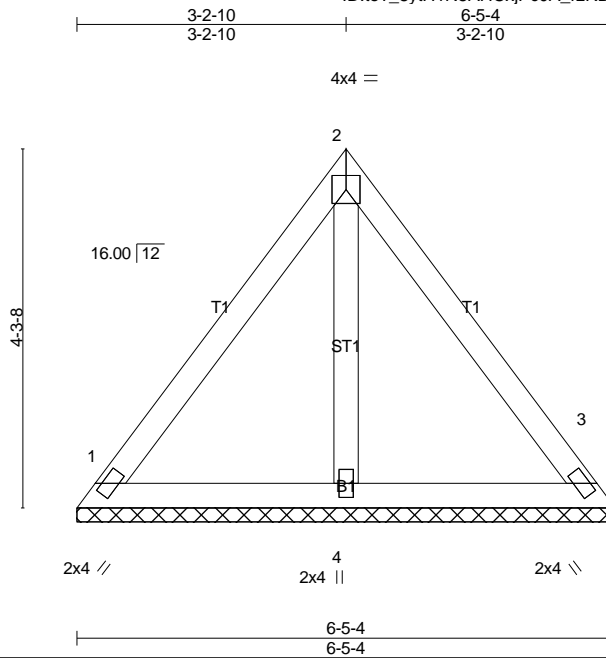
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 1 and 54 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

Job 22-2666-R01	Truss VT04	Truss Type Valley	Qty 1	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
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Atlantic Building Components, Moncks Corner, South Carolina

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Scale = 1:27.5

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2018/TPI2014							
							Weight: 30 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 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.

- 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 48 lb uplift at joint 1 and 40 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.

REACTIONS. (lb/size)

1 =	151/6-5-4 (min. 0-1-8)
3 =	151/6-5-4 (min. 0-1-8)
4 =	166/6-5-4 (min. 0-1-8)

Max Horz

1 = -97(LC 8)

Max Uplift

1 = -48(LC 13)

3 = -40(LC 12)

Max Grav

1 = 151(LC 1)

3 = 151(LC 1)

4 = 177(LC 5)

FORCES. (lb)

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

LOAD CASE(S)

Standard

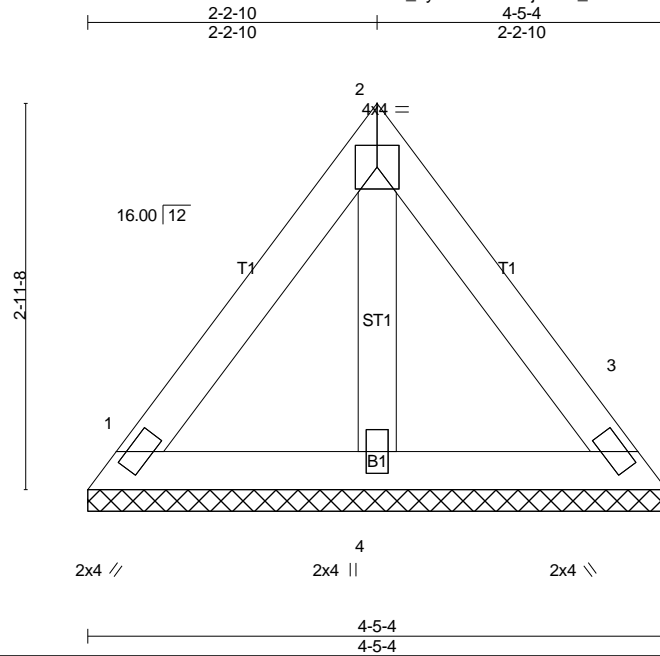
NOTES- (9-10)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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

Job 22-2666-R01	Truss VT05	Truss Type Valley	Qty 1	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-SOR497WvD8lfQUPQ9YOp8ddelHky40?nY6uBn_zQUPa
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Scale = 1:17.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2018/TPI2014							
							Weight: 20 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 4-5-4 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 = 100/4-5-4 (min. 0-1-8)
3 = 100/4-5-4 (min. 0-1-8)
4 = 109/4-5-4 (min. 0-1-8)

Max Horz

1 = -64(LC 8)

Max Uplift

1 = -32(LC 13)

3 = -26(LC 12)

Max Grav

1 = 100(LC 1)

3 = 100(LC 1)

4 = 117(LC 5)

FORCES. (lb)

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

LOAD CASE(S)

Standard

NOTES- (9-10)

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

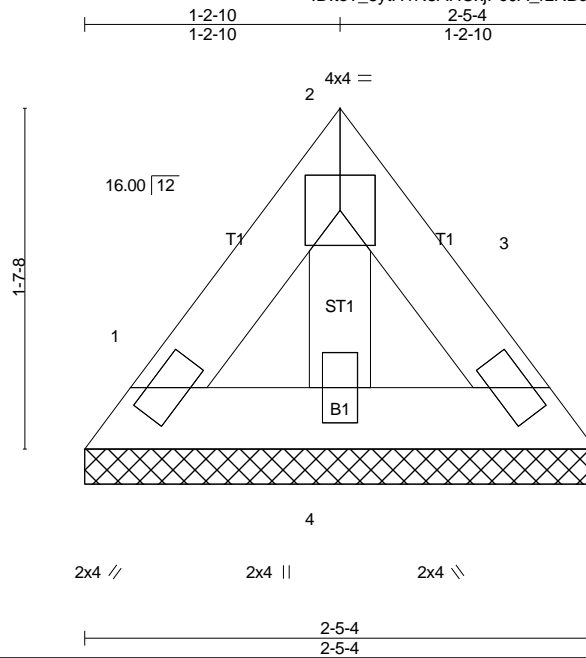
2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft;
Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 1 and 26 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	VT06	Valley	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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Scale = 1:11.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.15	TC 0.02	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P						
							Weight: 10 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 2-5-4 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	=	48/2-5-4 (min. 0-1-8)
3	=	48/2-5-4 (min. 0-1-8)
4	=	53/2-5-4 (min. 0-1-8)

Max Horz

1 = 31(LC 9)

Max Uplift

1 = -15(LC 13)

3 = -13(LC 12)

Max Grav

1 = 48(LC 1)

3 = 48(LC 1)

4 = 56(LC 5)

FORCES. (lb)

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

NOTES- (9-10)

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft;
Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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

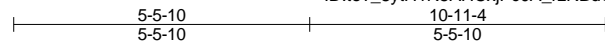
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load 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 15 lb uplift at joint 1 and 13 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)

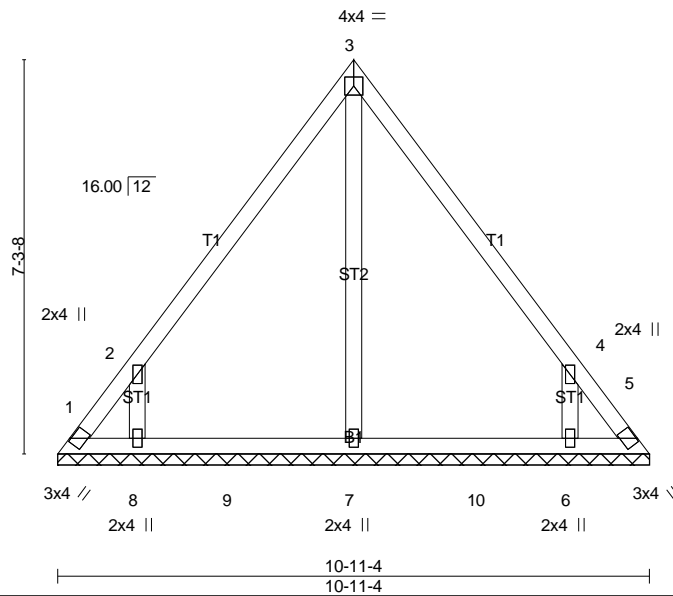
Standard

Job 22-2666-R01	Truss VT07	Truss Type Valley	Qty 1	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

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Scale = 1:42.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.33	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2018/TPI2014			Weight: 56 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 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 10-11-4.

(lb) - Max Horz

1=-171(LC 8)

Max Uplift

All uplift 100 lb or less at joint(s)

except 1=-161(LC 10), 5=-138(LC 11),

8=-315(LC 12), 6=-314(LC 13)

Max Grav

All reactions 250 lb or less at joint(s)

1, 5 except 7=359(LC 22), 8=424(LC 19),

6=423(LC 20)

FORCES. (lb)

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

TOP CHORD

1-2=-296/207, 4-5=-278/195

WEBS

2-8=-420/371, 4-6=-420/371

NOTES- (9-10)

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) 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 161 lb uplift at joint 1, 138 lb uplift at joint 5, 315 lb uplift at joint 8 and 314 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)

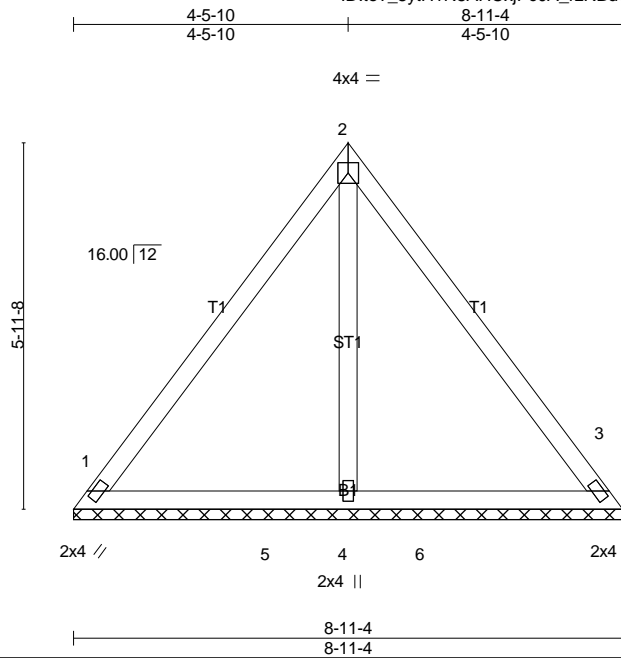
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	VT08	Valley	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:32:33 2022 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.47	Vert(LL)	n/a	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(CT)	n/a	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2018/TPI2014						Weight: 42 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 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 =	216/8-11-4 (min. 0-1-8)
3 =	216/8-11-4 (min. 0-1-8)
4 =	237/8-11-4 (min. 0-1-8)

Max Horz

1 = -138(LC 8)

Max Uplift

1 = -69(LC 13)

3 = -57(LC 12)

Max Grav

1 = 216(LC 20)

3 = 216(LC 1)

4 = 340(LC 19)

FORCES. (lb)

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

NOTES- (9-10)

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 1 and 57 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

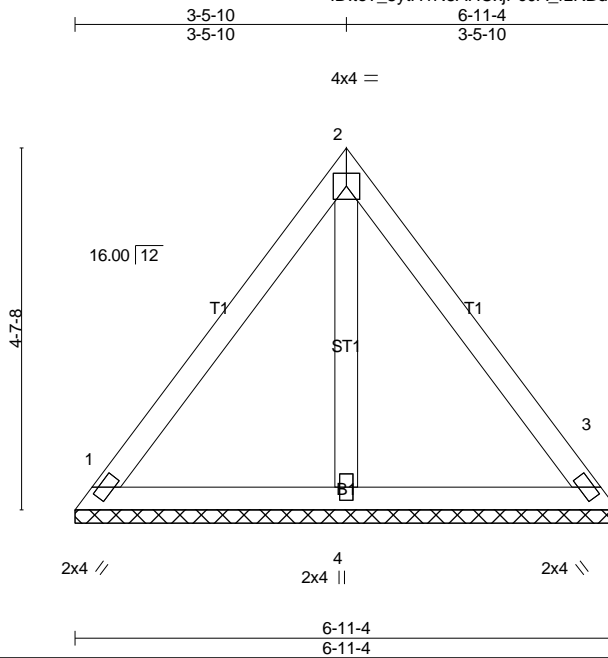
LOAD CASE(S)

Standard

Job 22-2666-R01	Truss VT09	Truss Type Valley	Qty 1	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING Job Reference (optional)
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Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:32:36 2022 Page 1
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Scale = 1:29.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2018/TPI2014						Weight: 32 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 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.

- 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 52 lb uplift at joint 1 and 43 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.

REACTIONS. (lb/size)

1	=	164/6-11-4 (min. 0-1-8)
3	=	164/6-11-4 (min. 0-1-8)
4	=	180/6-11-4 (min. 0-1-8)

Max Horz

1 = 105(LC 9)

Max Uplift

1 = -52(LC 13)

3 = -43(LC 12)

Max Grav

1 = 164(LC 1)

3 = 164(LC 1)

4 = 192(LC 5)

FORCES. (lb)

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

LOAD CASE(S)

Standard

NOTES- (9-10)

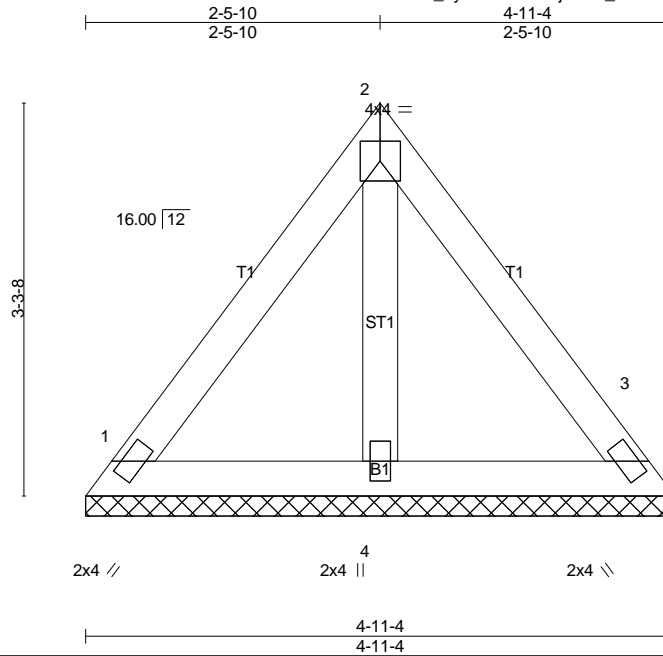
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Job	Truss	Truss Type	Qty	Ply	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
22-2666-R01	VT10	Valley	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:32:38 2022 Page 1

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Scale = 1:19.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2018/TPI2014							
							Weight: 22 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 4-11-4 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 = 112/4-11-4 (min. 0-1-8)
 3 = 112/4-11-4 (min. 0-1-8)
 4 = 123/4-11-4 (min. 0-1-8)

Max Horz

1 = 72(LC 9)

Max Uplift

1 = -36(LC 13)
 3 = -30(LC 12)

Max Grav

1 = 112(LC 1)
 3 = 112(LC 1)
 4 = 132(LC 5)

FORCES. (lb)

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

LOAD CASE(S)

Standard

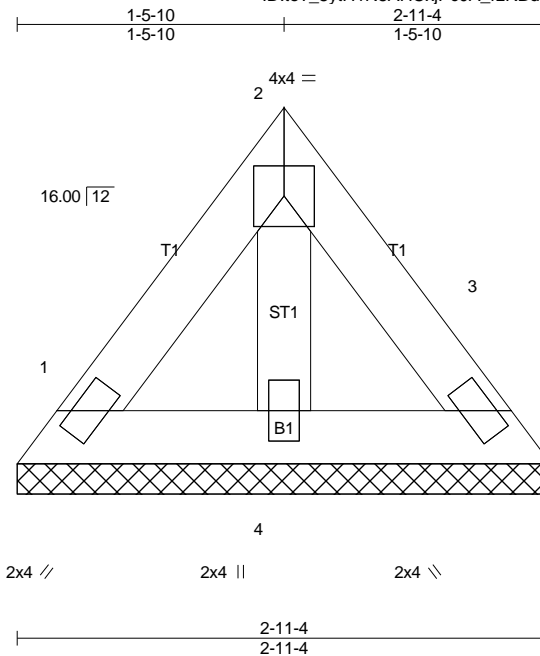
NOTES- (9-10)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1 and 30 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

Job 22-2666-R01	Truss VT11	Truss Type Valley	Qty 1	Ply 1	LOT 51 CROSSING @ ANDERSON CREEK 115 PINNACLE DRIVE SPRING
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

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Scale = 1:12.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2018/TPI2014							
							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 2-11-4 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 =	61/2-11-4 (min. 0-1-8)
3 =	61/2-11-4 (min. 0-1-8)
4 =	67/2-11-4 (min. 0-1-8)
Max Horz	
1 =	-39(LC 8)
Max Uplift	
1 =	-19(LC 13)
3 =	-16(LC 12)
Max Grav	
1 =	61(LC 1)
3 =	61(LC 1)
4 =	71(LC 5)

FORCES. (lb)

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

NOTES- (9-10)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1 and 16 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)

Standard