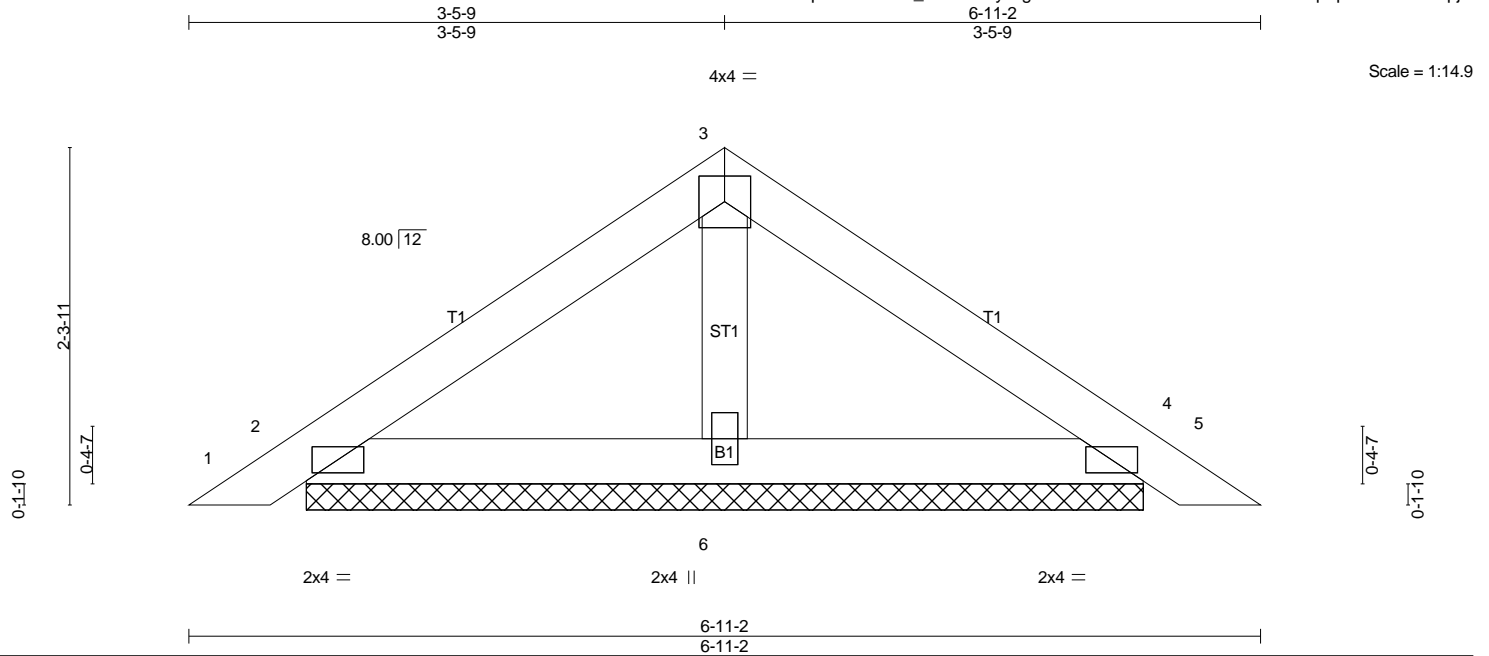


Job 22-2661-R01	Truss PB01	Truss Type Piggyback	Qty 2	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
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Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:17:07 2022 Page 1  
ID:O8xp6VOF63Hc\_JffwJs1NyJJgt-5rLG04oOkh83na8czDrQC0AchHqfKpJLo89h34zQpjw



Scale = 1:14.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	Vert(LL) 0.00	5	n/r	180	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT) 0.00	5	n/r	80		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2018/TPI2014						Weight: 23 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)

2 = 149/5-4-14 (min. 0-1-8)  
4 = 149/5-4-14 (min. 0-1-8)  
6 = 195/5-4-14 (min. 0-1-8)

Max Horz  
2 = -49(LC 10)  
Max Uplift  
2 = -39(LC 12)  
4 = -46(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

4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

5) Gable requires continuous bottom chord bearing.  
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

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

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.

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

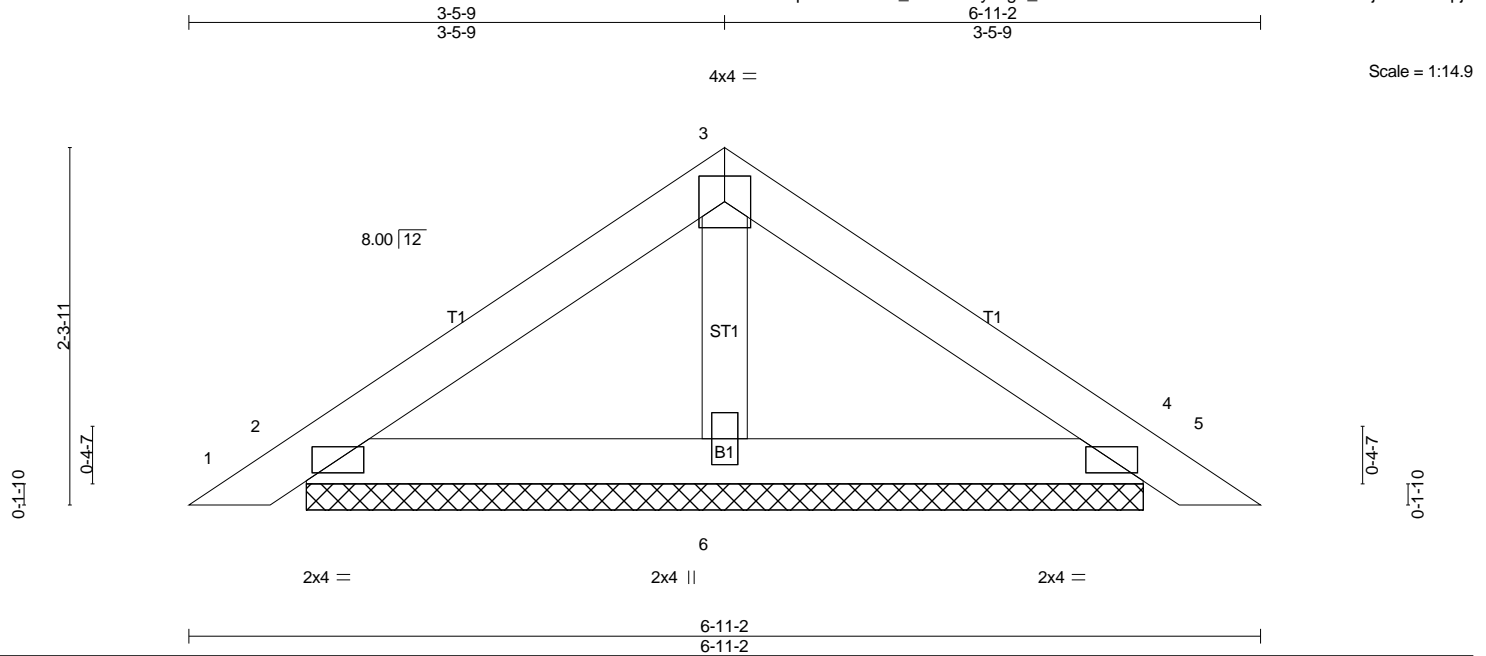
**LOAD CASE(S)**

Standard

Job 22-2661-R01	Truss PB02	Truss Type Piggyback	Qty 16	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
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Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:17:11 2022 Page 1  
ID:O8xp6VOF63Hc\_JfwJs1NyJJgt-\_cbnsRruoveUGCSNC2wMMsLlhuBbGdJwjm7vCrzQpjs



Scale = 1:14.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	Vert(LL) 0.00	5	n/r	180	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT) 0.00	5	n/r	80		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2018/TPI2014						Weight: 23 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)

2 = 149/5-4-14 (min. 0-1-8)  
4 = 149/5-4-14 (min. 0-1-8)  
6 = 195/5-4-14 (min. 0-1-8)

**Max Horz**

2 = -49(LC 10)

**Max Uplift**

2 = -39(LC 12)  
4 = -46(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

4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

5) Gable requires continuous bottom chord bearing.

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

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

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

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.

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

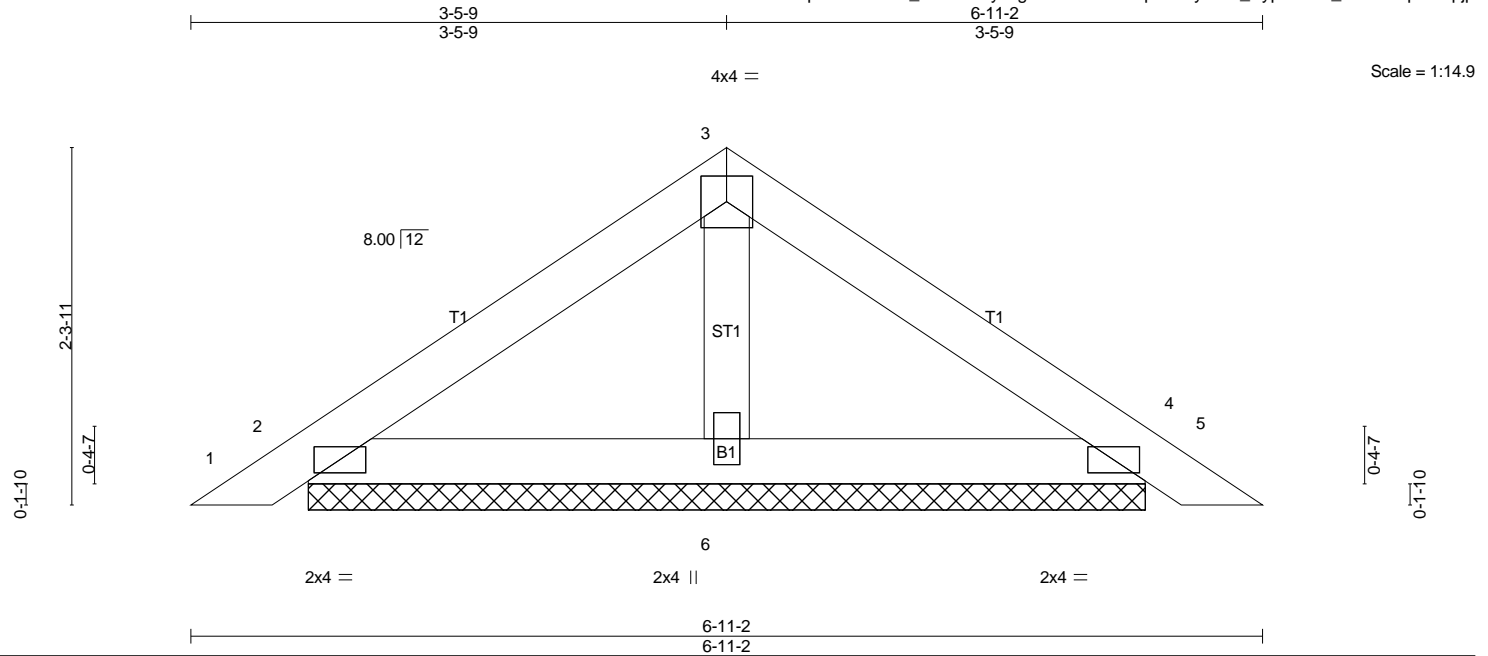
**LOAD CASE(S)**

Standard

Job 22-2661-R01	Truss PB03	Truss Type Piggyback	Qty 2	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
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Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:17:14 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 0.12	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2018/TPI2014						Weight: 23 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)

2 = 149/5-4-14 (min. 0-1-8)  
4 = 149/5-4-14 (min. 0-1-8)  
6 = 195/5-4-14 (min. 0-1-8)

**Max Horz**

2 = -49(LC 10)

**Max Uplift**

2 = -39(LC 12)  
4 = -46(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

4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

5) Gable requires continuous bottom chord bearing.

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

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

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

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.

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

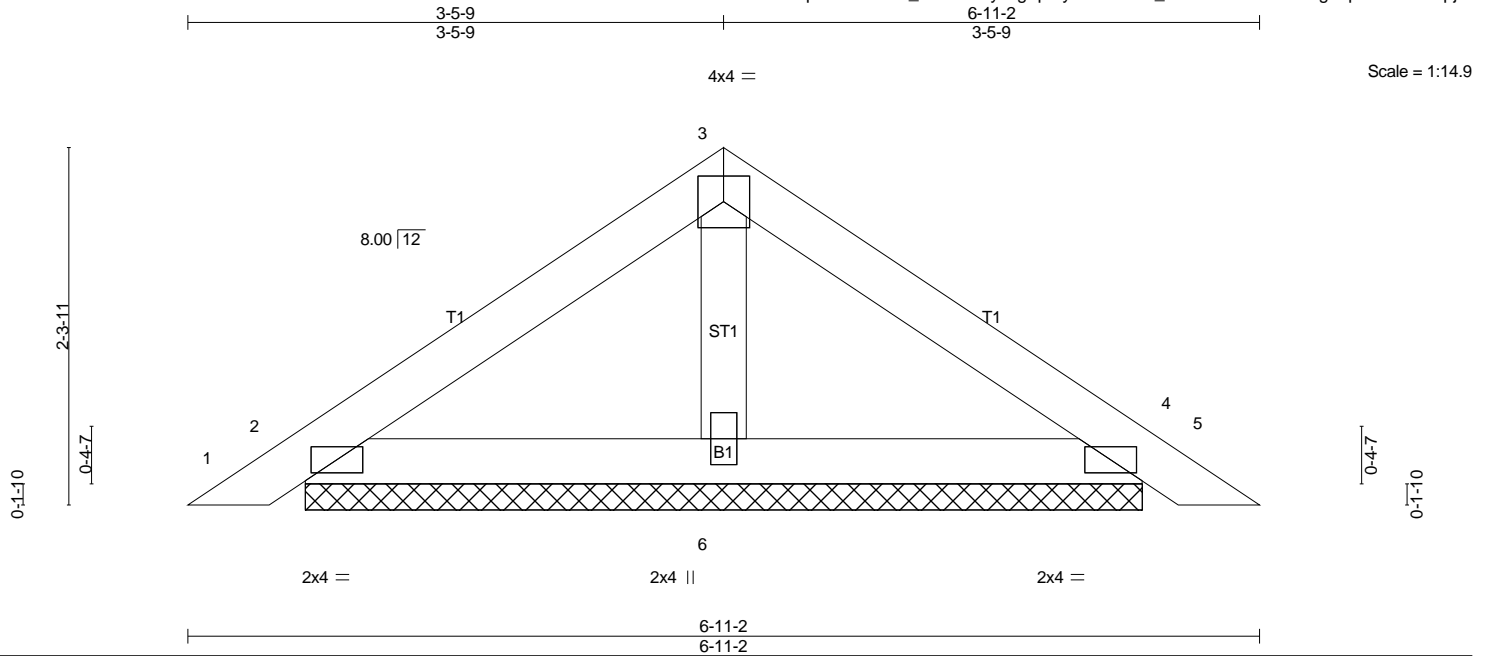
**LOAD CASE(S)**

Standard

Job 22-2661-R01	Truss PB04	Truss Type Piggyback	Qty 1	Ply 3	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
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Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:17:17 2022 Page 1  
ID:O8xp6VOF63Hc\_JffwJs1NyJJgt-pmy27VvfNIPe\_7vXYJ1mc7aLSJFJg4p6iaDQVzQpjm



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 0.04	Vert(LL) 0.00	4	n/r	180	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) 0.00	5	n/r	80		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 68 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.

**REACTIONS.** (lb/size)

2 =	149/5-4-14 (min. 0-1-8)
4 =	149/5-4-14 (min. 0-1-8)
6 =	195/5-4-14 (min. 0-1-8)
Max Horz	
2 =	-49(LC 10)
Max Uplift	
2 =	-39(LC 12)
4 =	-46(LC 13)

**FORCES.** (lb)

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

**NOTES-** (13-14)

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 22-2661-R01	Truss PB05	Truss Type Piggyback	Qty 2	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:17:19 2022 Page 1  
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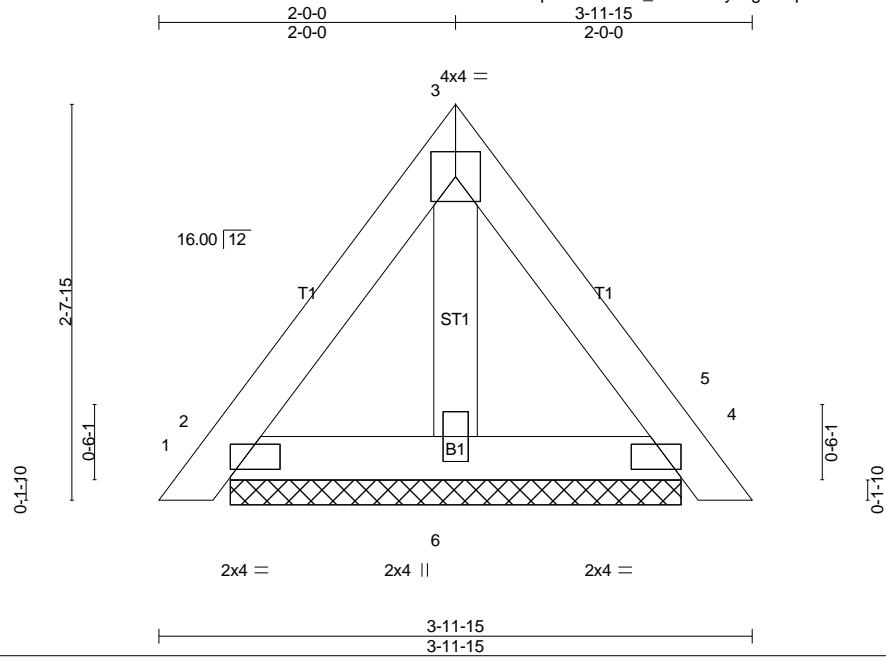


Plate Offsets (X,Y)-- [2:0-2-13,0-1-0], [4:0-2-13,0-1-0]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	0.00	4	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	4	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 17 lb	FT = 0%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.3  
 OTHERS 2x4 SP No.3  
**BRACING-**  
 TOP CHORD  
 Structural wood sheathing directly applied or 3-11-15 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)

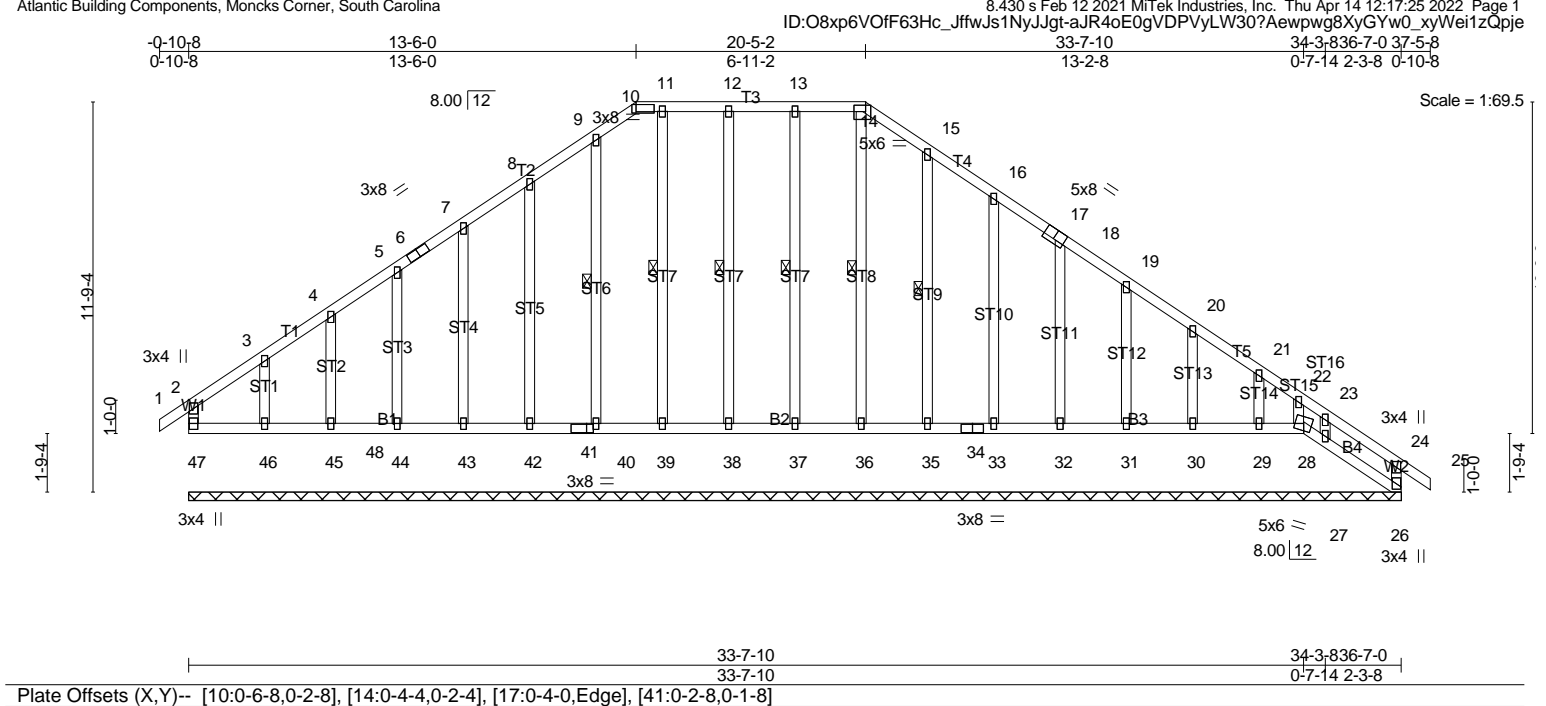
2 =	98/3-0-6 (min. 0-1-8)
4 =	98/3-0-6 (min. 0-1-8)
6 =	83/3-0-6 (min. 0-1-8)
Max Horz	
2 =	-60(LC 10)
Max Uplift	
2 =	-29(LC 13)
4 =	-24(LC 12)
Max Grav	
2 =	98(LC 1)
4 =	98(LC 1)
6 =	91(LC 5)

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

**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

- 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 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



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	Vert(LL)	0.00	24	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.16	Vert(CT)	-0.00	24	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.14	Horz(CT)	0.01	26	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R						
	Code IRC2018/TPI2014						Weight: 273 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 13-37, 12-38, 11-39, 9-40, 14-36, 15-35

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

**REACTIONS.**

- All bearings 36-7-0.
- (lb) - Max Horz 47=-272(LC 8)
- Max Uplift All uplift 100 lb or less at joint(s) 26, 37, 38, 39, 40, 42, 43, 44, 45, 35, 33, 32, 31, 30 except 47=-126(LC 8), 28=-171(LC 11), 46=-131(LC 12), 29=-106(LC 13), 27=-238(LC 13)
- Max Grav All reactions 250 lb or less at joint(s) 47, 26, 28, 37, 38, 40, 45, 46, 31, 30, 29 except 39=276(LC 23), 42=258(LC 20), 43=256(LC 20), 44=267(LC 20), 36=261(LC 23), 35=259(LC 21), 33=257(LC 21), 32=264(LC 21), 27=251(LC 25)

**FORCES.**

- (lb) Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD 8-9=-190/281, 9-10=-192/268, 10-11=-173/253, 11-12=-173/253,

**TOP CHORD**

- 8-9=-190/281, 9-10=-192/268, 10-11=-173/253, 11-12=-173/253, 12-13=-173/253, 13-14=-173/253, 14-15=-203/280

**NOTES-** (16-17)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 37, 38, 39, 40, 42, 43, 44, 45, 35, 33, 32, 31, 30 except (jt=lb) 47=126, 28=171, 46=131, 29=106, 27=238.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 47, 28, 37, 38, 39, 40, 42, 43, 44, 45, 46, 36, 35, 33, 32, 31, 30, 29, 27.
- 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)**

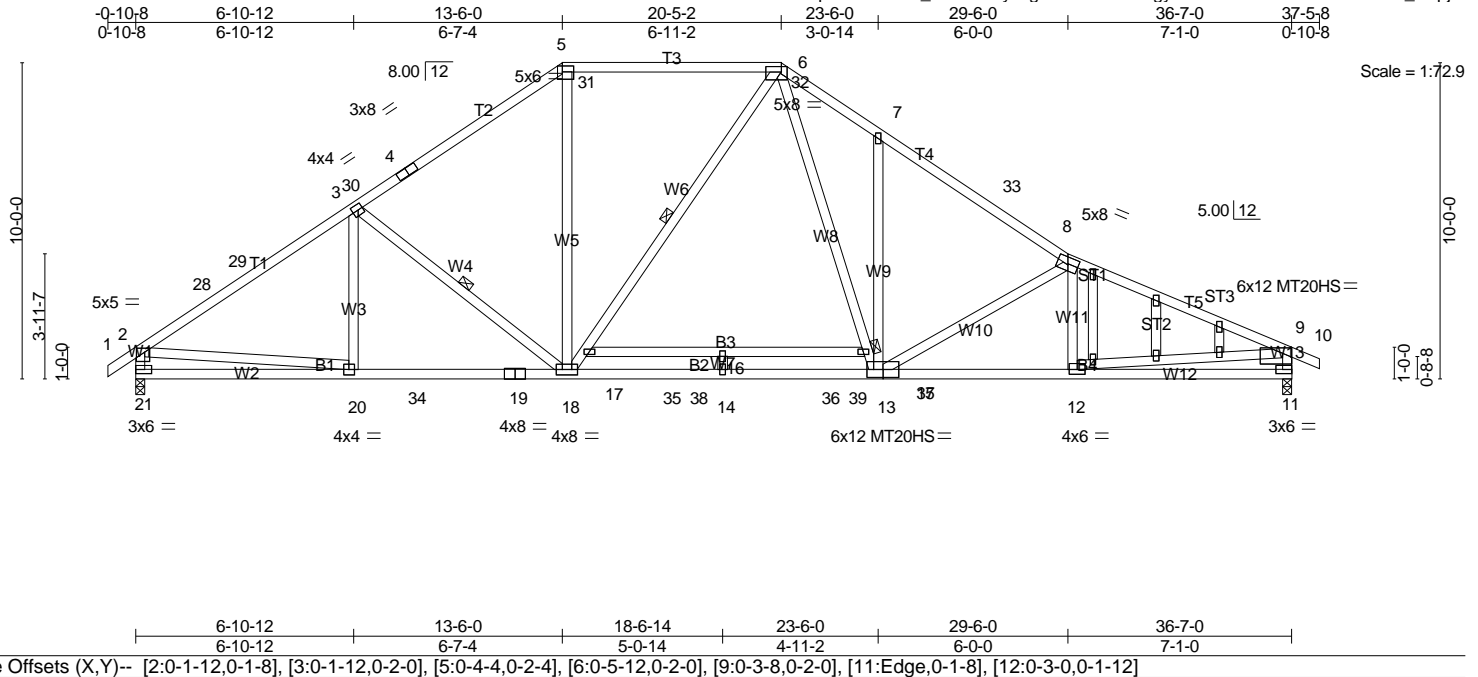
Standard



Job	Truss	Truss Type	Qty	Ply	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
22-2661-R01	R03	GABLE	2	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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ID:O8xp6VOF63Hc\_JffwJs1NyJJgt-2mXtaODzGly66uX4nVsfzZYovkmtme4ltbL\_zQpjM



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.96	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.92	Vert(LL) -0.59 15-16 >736 240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.95	Vert(CT) -0.92 13-14 >471 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.08 11 n/a n/a		
	Code IRC2018/TPI2014			Weight: 254 lb	FT = 0%

**LUMBER-**

**TOP CHORD** 2x4 SP No.1 \*Except\*  
T3,T4: 2x4 SP SS, T5: 2x4 SP No.2

**BOT CHORD** 2x4 SP SS \*Except\*  
B1: 2x4 SP No.2

**WEBS** 2x4 SP No.3 \*Except\*  
W8,W13,W12,W1,W2: 2x4 SP No.2

**OTHERS** 2x4 SP No.3

**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: 18-20.

**WEBS**  
1 Row at midpt 3-18, 6-18

**TOP CHORD**  
2-28=-2757/126, 28-29=-2515/148,  
3-29=-2483/150, 3-30=-2371/108,  
4-30=-2356/112, 4-5=-2197/145,  
5-31=-1838/175, 31-32=-1838/175,  
6-32=-1838/175, 6-7=-2937/305,  
7-33=-2817/158, 8-33=-2949/139,  
8-9=-3251/201, 9-11=-1663/188,  
2-21=-1953/165

**BOT CHORD**  
20-21=-230/599, 20-34=-152/2305,  
19-34=-152/2305, 18-19=-152/2305,  
18-35=0/1751, 14-35=0/1751,  
14-36=0/1751, 36-37=0/1751,  
13-37=0/1751, 12-13=-117/2973,  
11-12=-133/577

**WEBS**  
3-18=-592/226, 5-18=0/874,  
6-15=-211/1615, 13-15=-262/1486,  
7-13=-609/226, 8-13=-848/207,  
8-12=-266/54, 9-12=0/2616, 2-20=0/1824

**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
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=132, 11=155.
- 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.

**REACTIONS.** (lb/size)

21	=	1601/0-3-8 (min. 0-2-6)
11	=	1605/0-3-8 (min. 0-2-1)
Max Horz		
21	=	-253(LC 12)
Max Uplift		
21	=	-132(LC 14)
11	=	-155(LC 15)
Max Grav		
21	=	2027(LC 41)
11	=	1758(LC 49)

**FORCES.** (lb)

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

**TOP CHORD**  
2-28=-2757/126, 28-29=-2515/148,  
3-29=-2483/150, 3-30=-2371/108,  
4-30=-2356/112, 4-5=-2197/145,



Job	Truss	Truss Type	Qty	Ply	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
22-2661-R01	R03	GABLE	2	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

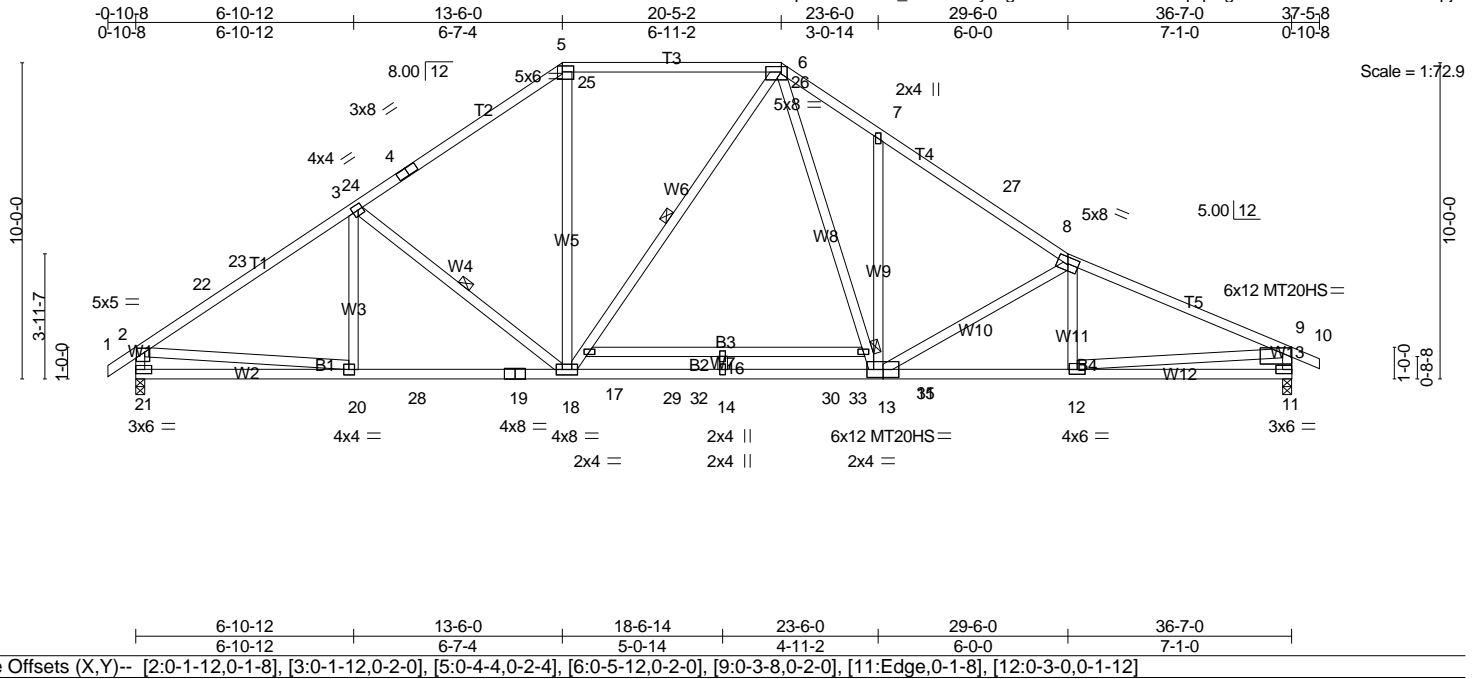
8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:17:43 2022 Page 2  
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**LOAD CASE(S)**  
 Standard

Job	Truss	Truss Type	Qty	Ply	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
22-2661-R01	R04	Piggyback Base	4	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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 ID:O8xp6VOfF63Hc\_JffwJs1NyJgt-h4FQ5UNVRBFYzpqnlq889cWd?YaJkPrnEmIzQpjA



LOADING (psf)	SPACING-	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.96	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.92	Vert(LL) -0.59 15-16 >736	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.95	Vert(CT) -0.92 13-14 >471		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.08 11 n/a n/a		
	Code IRC2018/TPI2014			Weight: 246 lb	FT = 0%

**LUMBER-**

TOP CHORD 2x4 SP No.1 \*Except\*  
 T3,T4: 2x4 SP SS, T5: 2x4 SP No.2  
 BOT CHORD 2x4 SP SS \*Except\*  
 B1: 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 W8,W13,W12,W1,W2: 2x4 SP No.2

**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: 18-20.  
 WEBS  
 1 Row at midpt 3-18, 6-18

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

**REACTIONS.** (lb/size)

21 = 1601/0-3-8 (min. 0-2-6)  
 11 = 1605/0-3-8 (min. 0-2-1)  
 Max Horz  
 21 = -253(LC 12)  
 Max Uplift  
 21 = -132(LC 14)  
 11 = -155(LC 15)  
 Max Grav  
 21 = 2027(LC 41)  
 11 = 1758(LC 49)

**FORCES.** (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD  
 2-22=-2757/126, 22-23=-2515/148,  
 3-23=-2483/150, 3-24=-2371/108,  
 4-24=-2356/112, 4-5=-2197/145,  
 5-25=-1838/175, 25-26=-1838/175,

TOP CHORD  
 2-22=-2757/126, 22-23=-2515/148,  
 3-23=-2483/150, 3-24=-2371/108,  
 4-24=-2356/112, 4-5=-2197/145,  
 5-25=-1838/175, 25-26=-1838/175,  
 6-26=-1838/175, 6-7=-2937/305,  
 7-27=-2817/158, 8-27=-2949/139,  
 8-9=-3251/201, 9-11=-1663/188,  
 2-21=-1953/165  
 BOT CHORD  
 20-21=-230/599, 20-28=-152/2305,  
 19-28=-152/2305, 18-19=-152/2305,  
 18-29=0/1751, 14-29=0/1751,  
 14-30=0/1751, 30-31=0/1751,  
 13-31=0/1751, 12-13=-117/2973,  
 11-12=-133/577  
 WEBS  
 3-18=-592/226, 5-18=0/874,  
 6-15=-211/1615, 13-15=-262/1486,  
 7-13=-609/226, 8-13=-848/207,  
 8-12=-266/54, 9-12=0/2616, 2-20=0/1824

**NOTES-** (12-13)

- 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
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=132, 11=155.
- 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	Truss	Truss Type	Qty	Ply	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
22-2661-R01	R05	Piggyback Base Girder	1	3	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:18:10 2022 Page 2  
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**NOTES-** (18-19)

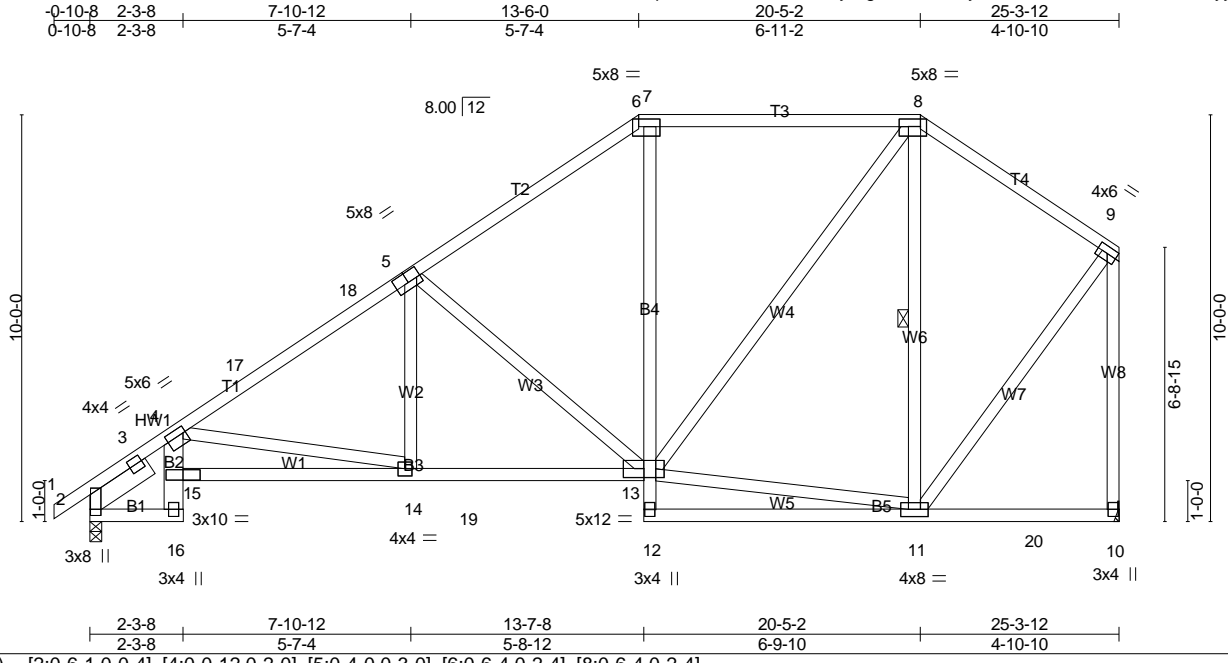
- 10) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=959, 2=395.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie HGUS26-2 (20-16d Girder, 8-16d Truss) or equivalent at 25-5-6 from the left end to connect truss(es) R22 (2 ply 2x6 SP) to back face of bottom chord.
- 15) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 27-6-4 from the left end to 31-6-4 to connect truss(es) R21 (1 ply 2x4 SP), R20 (1 ply 2x4 SP), R18 (1 ply 2x4 SP) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 675 lb down and 122 lb up at 33-8-7, and 634 lb down and 93 lb up at 35-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 18) 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.
- 19) 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: 1-7=-60, 7-8=-60, 8-13=-60, 13-15=-60,  
2-19=-20, 18-19=-20  
Concentrated Loads (lb)  
Vert: 19=-633(B) 23=-4932(B) 22=-633(B) 21=-633(B)  
33=-633(B) 34=-634(B)

Job 22-2661-R01	Truss R06	Truss Type Piggyback Base	Qty 5	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:18:14 2022 Page 1  
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.95	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.83	Vert(LL) 0.07 14-15 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.73	Vert(CT) -0.15 14-15 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.10 10 n/a n/a		
	Code IRC2018/TPI2014			Weight: 192 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
                  B2: 2x6 SP No.2, B4: 2x4 SP No.3  
WEBS 2x4 SP No.3  
SLIDER  
Left 2x6 SP No.2 - 1-9-15

**BRACING-**  
TOP CHORD  
Structural wood sheathing directly applied or 4-6-8 oc purlins, except end verticals.  
BOT CHORD  
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
9-10-2 oc bracing: 15-16  
7-0-14 oc bracing: 14-15.  
WEBS  
1 Row at midpt 8-11

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

**REACTIONS.** (lb/size)  
2 = 1060/0-3-8 (min. 0-1-8)  
10 = 1006/Mechanical  
Max Horz  
2 = 280(LC 12)  
Max Uplift  
2 = -129(LC 12)  
10 = -106(LC 12)

**FORCES.** (lb)  
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD  
2-3=-1323/148, 3-4=-1217/158,  
4-17=-1478/196, 17-18=-1390/200,  
5-18=-1308/217, 5-6=-976/210,  
6-7=-729/224, 7-8=-738/226,  
8-9=-582/137, 9-10=-968/185  
BOT CHORD  
2-16=-336/905, 14-15=-700/1956,

**BOT CHORD**  
2-16=-336/905, 14-15=-700/1956,  
14-19=-314/1191, 13-19=-314/1191

**WEBS**  
4-14=-788/393, 5-14=-9/368,  
5-13=-655/238, 11-13=-65/407,  
8-13=-147/545, 8-11=-491/157,  
9-11=-98/699

**NOTES-** (11-14)  
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(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 6-8-9, Exterior(2R) 6-8-9 to 20-5-2, Exterior(2E) 20-5-2 to 25-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); 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=129, 10=106.  
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 bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.  
12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.  
13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.  
14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

**LOAD CASE(S)**  
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
22-2661-R01	R06A	Piggyback Base	3	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:18:18 2022 Page 1  
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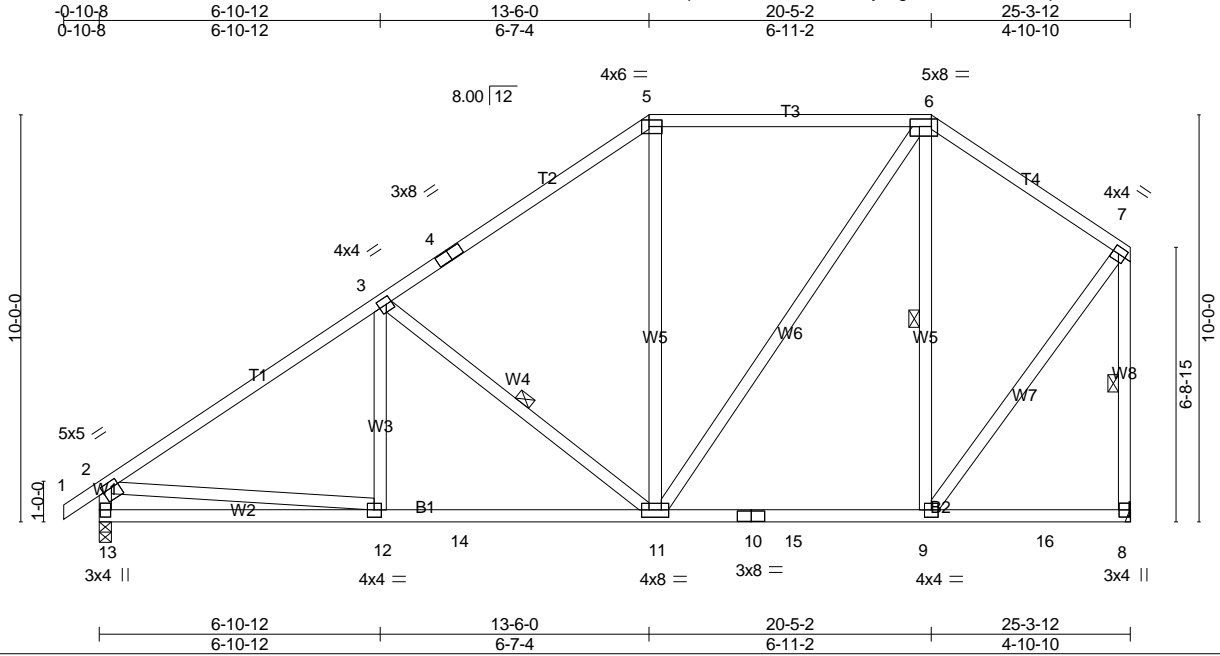


Plate Offsets (X,Y)-- [2:0-2-4,0-1-12], [3:0-1-12,0-2-0], [5:0-3-12,0-2-0], [6:0-6-4,0-2-4], [7:0-1-12,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) -0.10 9-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.32	Vert(CT) -0.15 9-11 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 179 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 4-5-15 oc purlins, except end verticals.  
BOT CHORD  
Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS  
1 Row at midpt 3-11, 6-9, 7-8

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

**REACTIONS.** (lb/size)

13 = 1063/0-3-8 (min. 0-1-8)  
8 = 1000/Mechanical  
Max Horz  
13 = 310(LC 9)  
Max Uplift  
13 = -146(LC 12)  
8 = -90(LC 12)  
Max Grav  
13 = 1063(LC 1)  
8 = 1117(LC 3)

**FORCES.** (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD  
2-3=-1307/169, 3-4=-924/140,  
4-5=-826/173, 5-6=-688/198,  
6-7=-617/140, 7-8=-1025/115,  
2-13=-1000/176  
BOT CHORD  
12-13=-330/446, 12-14=-222/1139,  
11-14=-222/1139, 10-11=-105/470,  
10-15=-105/470, 9-15=-105/470  
WEBS  
3-11=-518/216, 6-11=-110/459,

**WEBS**

3-11=-518/216, 6-11=-110/459,  
6-9=-432/152, 7-9=-104/765, 2-12=0/766

**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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 13=146.
- 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.

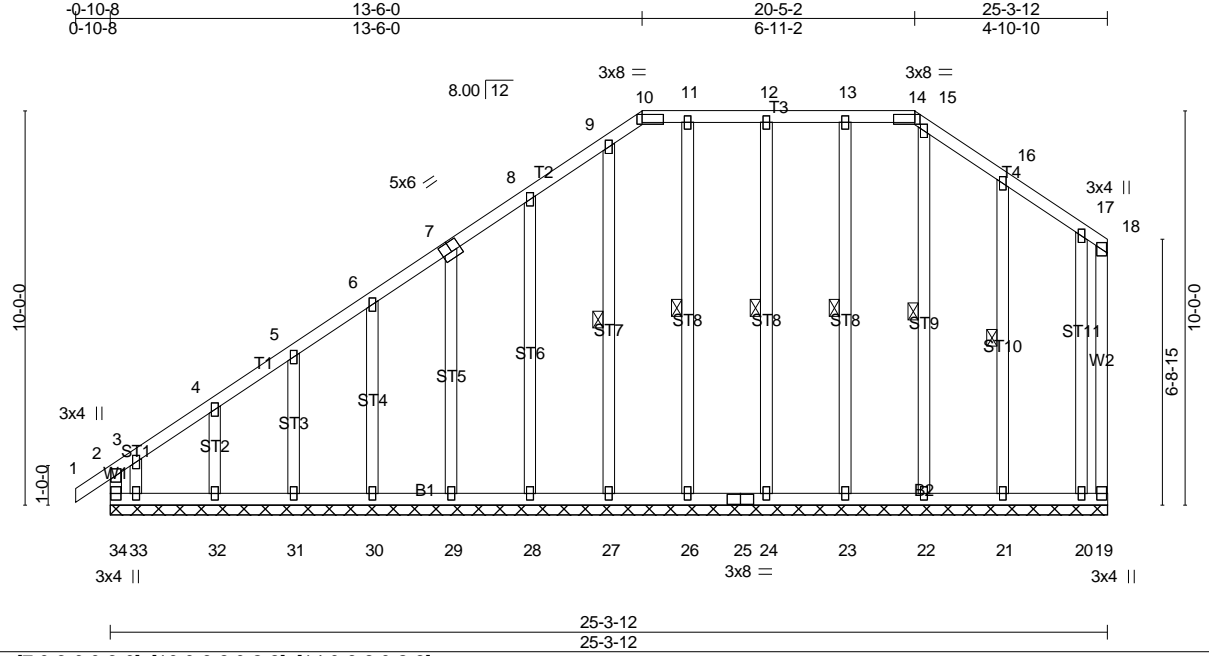
- Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural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

**LOAD CASE(S)**

Standard

Job 22-2661-R01	Truss R07	Truss Type GABLE	Qty 1	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:18:23 2022 Page 1  
 ID:O8xp6VOif63Hc\_JffwJs1NyJJgt-TX?z3i3r1jHvGyDQADEH2JXAvkP79DWHZzJkgzQpik



Scale = 1:58.5

Plate Offsets (X,Y)-- [7:0-3-0,0-3-0], [10:0-6-8,0-2-8], [14:0-6-8,0-2-8]	
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0
TCLL 20.0	Plate Grip DOL 1.15
TCDL 10.0	Lumber DOL 1.15
BCLL 0.0 *	Rep Stress Incr YES
BCDL 10.0	Code IRC2018/TPI2014
<b>CSL</b>	<b>DEFL.</b> in (loc) l/defl L/d
TC 0.40	Vert(LL) -0.00 1 n/r 180
BC 0.26	Vert(CT) -0.00 2 n/r 80
WB 0.15	Horz(CT) -0.00 19 n/a n/a
Matrix-R	
<b>PLATES</b>	<b>GRIP</b>
MT20	244/190
Weight: 222 lb FT = 0%	

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

**BRACING-**  
 TOP CHORD  
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD  
 Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS  
 1 Row at midpt  
 9-27, 11-26, 12-24, 13-23, 15-22, 16-21

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

**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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 27, 28, 29, 30, 31, 32, 26, 24, 23, 22, 21, 20 except (jt=lb) 34=372, 33=419.
- 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.

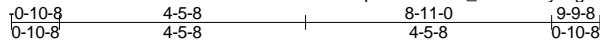
**LOAD CASE(S)**  
 Standard

**REACTIONS.** All bearings 25-3-12.  
 (lb) - Max Horz  
 34= 310(LC 9)  
 Max Uplift  
 All uplift 100 lb or less at joint(s)  
 19, 27, 28, 29, 30, 31, 32, 26, 24, 23,  
 22, 21, 20 except 34=372(LC 10),  
 33=419(LC 9)  
 Max Grav  
 All reactions 250 lb or less at joint(s)  
 19, 31, 32, 26, 24, 23, 22 except  
 34=550(LC 9), 27=267(LC 20), 28=259(LC  
 20), 29=256(LC 20), 30=260(LC 20),  
 33=376(LC 10), 21=265(LC 21),  
 20=250(LC 21)

**FORCES.** (lb)  
 Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD  
 2-34=-341/217, 2-3=-388/283,  
 3-4=-264/204

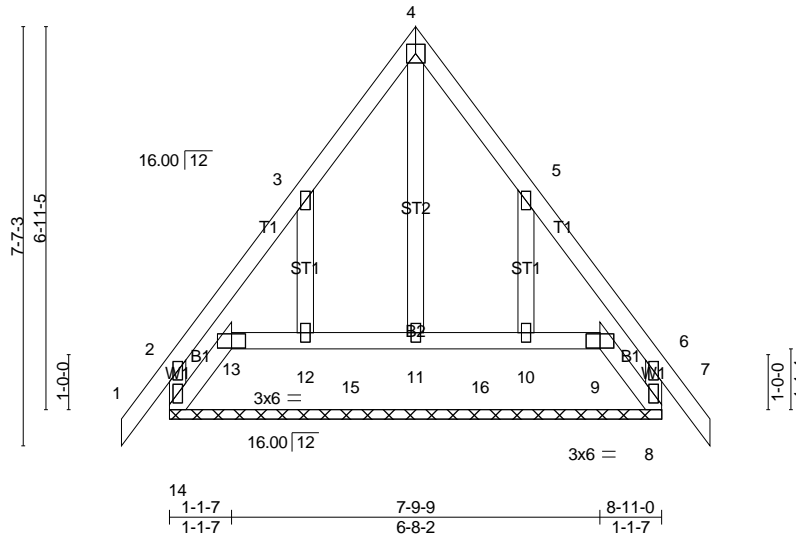
Job 22-2661-R01	Truss R08	Truss Type Roof Special Supported Gable	Qty 1	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:18:27 2022 Page 1  
ID:O8xp6VOIF63Hc\_JffwJs1NyJJgt-IEBWPqMzGuDIOtG\_f0HARuUGFX6U3yF6CbXwtRzQpig



4x4 =

Scale = 1:41.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL)	-0.00	7	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(CT)	-0.00	7	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.21	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R						
	Code IRC2018/TPI2014						Weight: 61 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 8-11-0.

(lb) - Max Horz  
 14=-207(LC 10)  
 Max Uplift  
 All uplift 100 lb or less at joint(s)  
 9 except 14=-264(LC 8), 8=-108(LC 12),  
 13=-162(LC 11), 12=-199(LC 12),  
 10=-197(LC 13)  
 Max Grav  
 All reactions 250 lb or less at joint(s)  
 8, 13, 9, 10 except 14=315(LC 21),  
 11=334(LC 23), 12=253(LC 20)

**FORCES.** (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD  
 3-4=-254/273, 4-5=-254/273  
 WEBS  
 4-11=-380/288, 3-12=-268/224,  
 5-10=-268/222

**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) 9 except (jt=lb) 14=264, 8=108, 13=162, 12=199, 10=197.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 13, 9, 11, 12, 10.

- 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 22-2661-R01	Truss R09	Truss Type GABLE	Qty 1	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:18:31 2022 Page 1  
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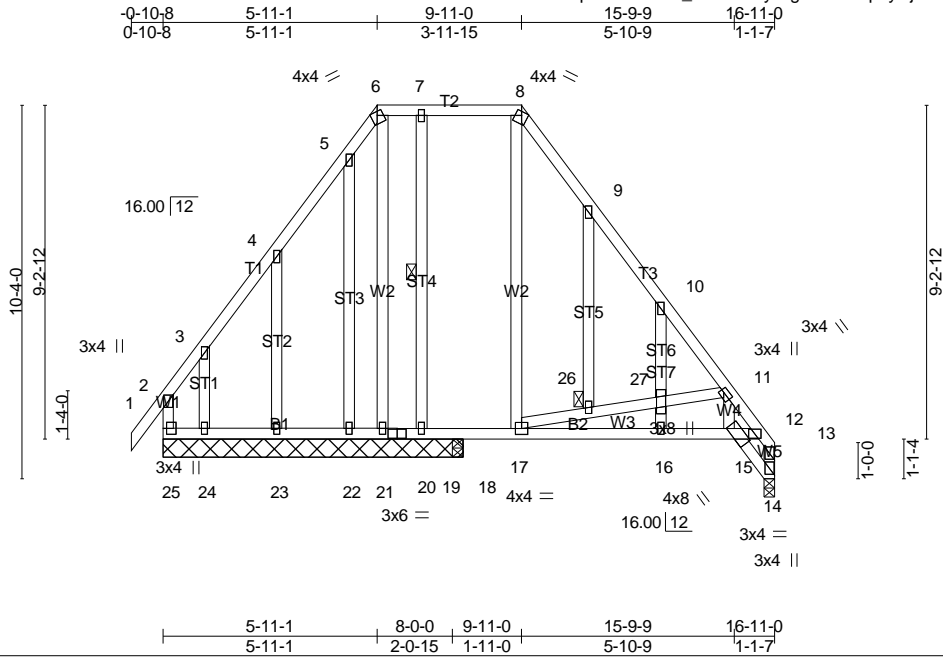


Plate Offsets (X,Y)--	[11:0-1-0,0-1-8], [15:0-3-9,0-0-0], [25:0-2-0,0-1-4]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15		TC 0.40	Vert(LL) 0.08	16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.77	Vert(CT) -0.11	16-17	>945	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.41	Horz(CT) 0.03	14	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH						
								Weight: 154 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 5-6-10 oc purlins, except end verticals.  
 BOT CHORD  
 Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS  
 1 Row at midpt 7-19  
 JOINTS  
 1 Brace at Jt(s): 26

TOP CHORD  
 2-3=-545/231, 3-4=-386/162,  
 4-5=-431/266, 5-6=-470/316,  
 6-7=-314/221, 7-8=-315/220,  
 8-9=-427/269, 9-10=-347/176,  
 10-11=-391/64, 11-12=-1015/399,  
 12-13=-387/103, 13-14=-522/133,  
 2-25=-542/199  
 BOT CHORD  
 16-17=-225/573, 15-16=-225/573,  
 12-15=-295/678  
 WEBS  
 6-21=-193/309, 17-26=-576/369,  
 26-27=-544/343, 11-27=-541/345,  
 11-15=-258/445

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

**REACTIONS.** All bearings 8-3-8 except (jt=length)  
 14=0-3-8, 18=0-3-8.  
 (lb) - Max Horz  
 25= 267(LC 11)  
 Max Uplift  
 All uplift 100 lb or less at joint(s) 22  
 except 14=-102(LC 13), 25=-267(LC 8),  
 21=-147(LC 21), 19=-215(LC 11),  
 23=-162(LC 12), 24=-313(LC 26),  
 18=-109(LC 8)  
 Max Grav  
 All reactions 250 lb or less at joint(s)  
 21, 19, 22, 24 except 14=496(LC 31),  
 25=727(LC 21), 23=284(LC 20),  
 18=558(LC 21)

**FORCES.** (lb)  
 Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD  
 2-3=-545/231, 3-4=-386/162,  
 4-5=-431/266, 5-6=-470/316,

**NOTES-** (14-15)  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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

7) All plates are 2x4 MT20 unless otherwise indicated.  
 8) Gable studs spaced at 2-0-0 oc.  
 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
 10) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.  
 11) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.  
 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22 except (jt=lb) 14=102, 25=267, 21=147, 19=215, 23=162, 24=313, 18=109.  
 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.  
 14) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.  
 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

**LOAD CASE(S)**  
 Standard

Job 22-2661-R01	Truss R10	Truss Type Piggyback Base	Qty 1	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:18:35 2022 Page 1  
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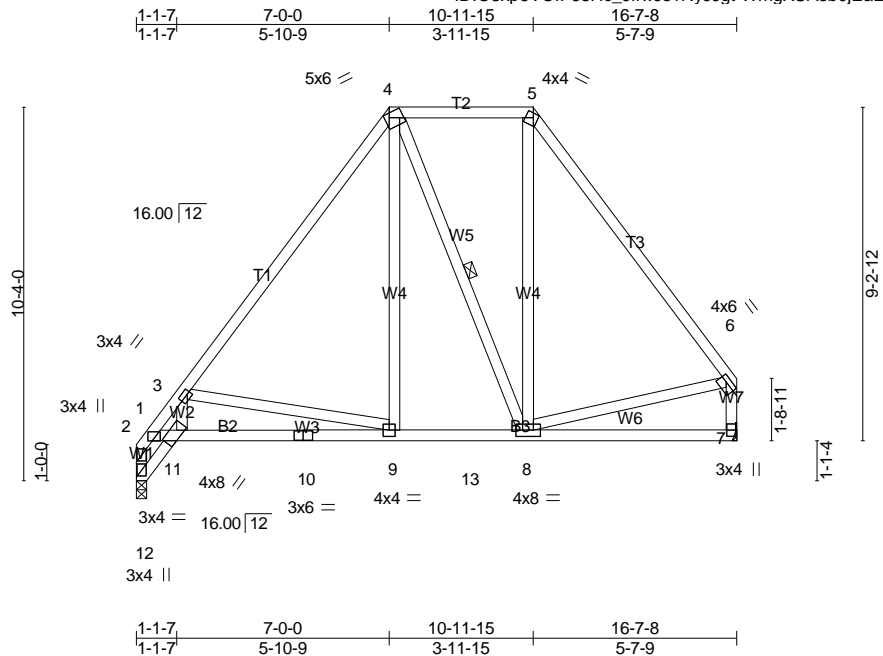


Plate Offsets (X,Y)-- [2:0-2-9,Edge], [3:0-1-0,0-1-8], [4:0-1-8,0-1-8], [5:0-1-8,0-1-8], [6:0-2-4,0-1-8], [11:0-0-1,Edge]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.04 9-11 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.09 9-11 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.04 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH			
				Weight: 126 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 4-7-15 oc purlins, except end verticals.  
 BOT CHORD  
 Rigid ceiling directly applied or 8-4-1 oc bracing.  
 WEBS  
 1 Row at midpt 4-8

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

**REACTIONS.** (lb/size)

12	=	653/0-3-8 (min. 0-1-8)
7	=	653/Mechanical
Max Horz		
12	=	259(LC 9)
Max Uplift		
12	=	-55(LC 13)
7	=	-74(LC 12)

**FORCES.** (lb)  
 Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD**  
 1-12=-857/292, 1-2=-642/220,  
 2-3=-1329/331, 3-4=-661/163,  
 4-5=-380/189, 5-6=-604/147,  
 6-7=-598/123  
**BOT CHORD**  
 11-12=-445/451, 2-11=-330/933,  
 10-11=-491/1028, 9-10=-491/1028,  
 9-13=-129/390, 8-13=-129/390  
**WEBS**  
 3-11=-222/542, 3-9=-656/503,  
 4-9=-61/312, 6-8=-98/295

**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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7.
- 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 22-2661-R01	Truss R11	Truss Type Roof Special	Qty 1	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:18:38 2022 Page 1  
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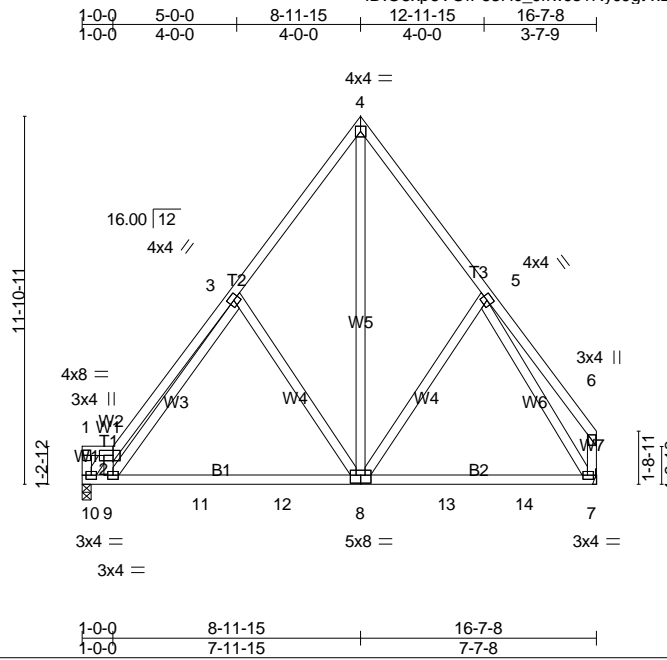


Plate Offsets (X,Y)-- [2:0-5-4,0-2-0], [7:0-1-12,0-1-8], [8:0-4-0,0-3-0]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.14 8-9 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.25 8-9 >785 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.74	Horz(CT) 0.01 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH			
				Weight: 128 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 4-10-3 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)

10 =	653/0-3-8 (min. 0-1-8)
7 =	653/Mechanical
Max Horz	
10 =	300(LC 9)
Max Uplift	
10 =	-89(LC 13)
7 =	-102(LC 12)
Max Grav	
10 =	727(LC 20)
7 =	755(LC 19)

**FORCES.** (lb)  
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD  
2-3=-1332/267, 3-4=-603/248,  
4-5=-588/245  
BOT CHORD  
9-10=-130/901, 9-11=-146/539,  
11-12=-146/539, 8-12=-146/539,  
8-13=-26/361, 13-14=-26/361,  
7-14=-26/361  
WEBS  
2-10=-1046/34, 2-9=-429/257,  
3-9=-128/763, 3-8=-341/269,  
4-8=-291/655, 5-8=-226/255, 5-7=-584/64

**WEBS**  
2-10=-1046/34, 2-9=-429/257,  
3-9=-128/763, 3-8=-341/269,  
4-8=-291/655, 5-8=-226/255,  
5-7=-584/64

**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) Provide adequate drainage to prevent water ponding.  
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.  
7) Refer to girder(s) for truss to truss connections.  
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 7=102.  
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.

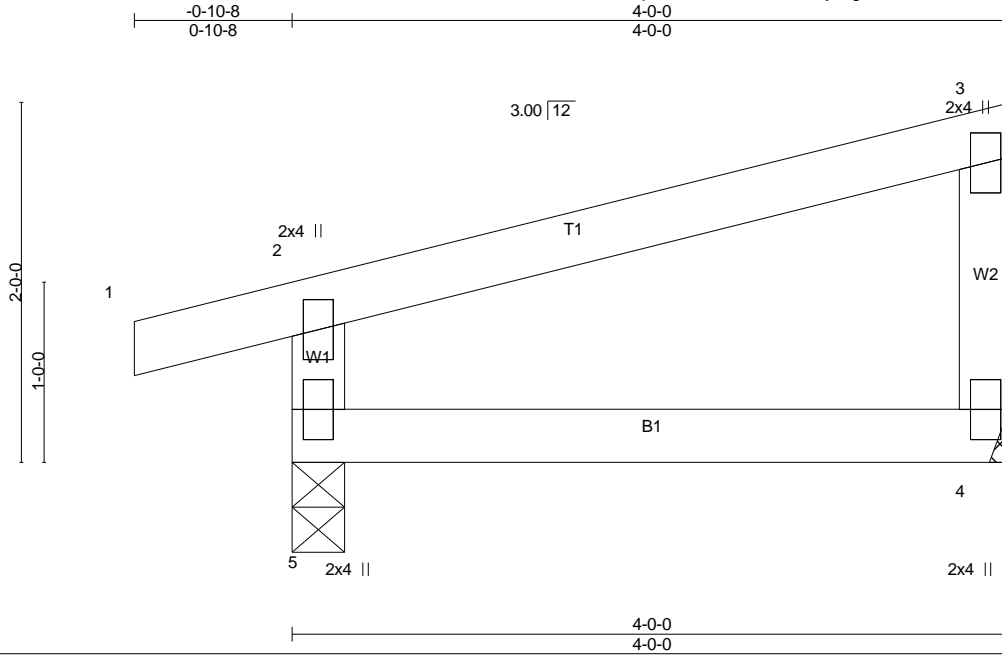
**LOAD CASE(S)**  
Standard



Job	Truss	Truss Type	Qty	Ply	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
22-2661-R01	R13	Monopitch	8	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:18:44 2022 Page 1  
 ID:O8xp6VOfF63Hc\_JffwJs1NyJgt-IVixNEzEuUMIwU3F845AdUh9?NwXYhkc6k9K\_uzQpiP



Scale = 1:12.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	Vert(LL) -0.01	4-5	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(CT) -0.01	4-5	>999	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-R						
	Code IRC2018/TPI2014							
							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 4-0-0 oc purlins, except end verticals.

**BOT CHORD**

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

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

**REACTIONS.** (lb/size)

4 =	140/Mechanical
5 =	218/0-3-8 (min. 0-1-8)
Max Horz	
5 =	64(LC 11)
Max Uplift	
4 =	-31(LC 14)
5 =	-69(LC 10)
Max Grav	
4 =	179(LC 21)
5 =	288(LC 21)

**FORCES.** (lb)

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

**TOP CHORD**

2-5=-257/90

**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

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

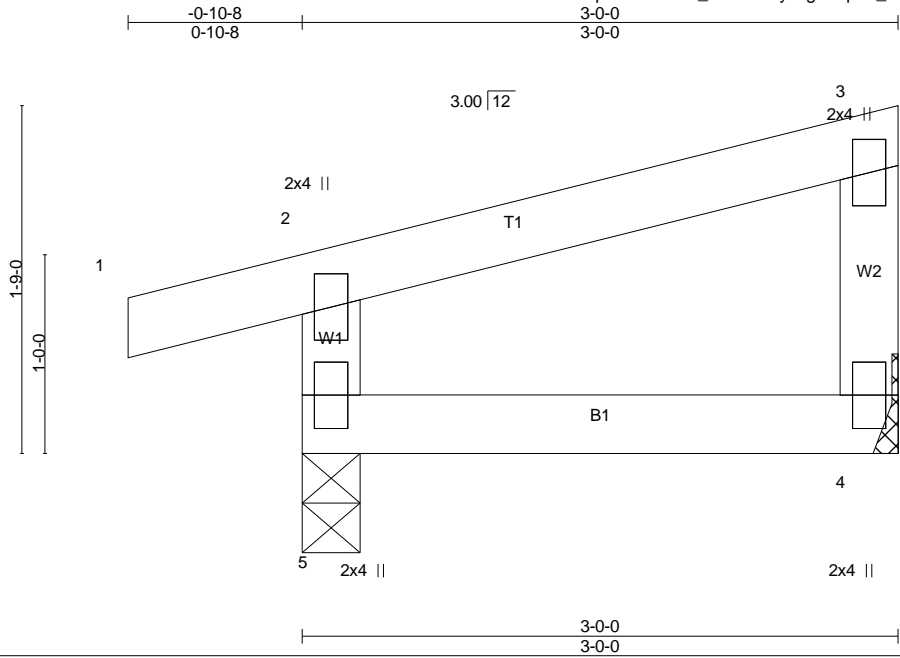
**LOAD CASE(S)**

Standard

Job	Truss	Truss Type	Qty	Ply	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
22-2661-R01	R14	Monopitch	2	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:18:46 2022 Page 1  
 ID:O8xp6VOfF63Hc\_JffwJs1NyJjgt-iuqjow\_UQ5c0AoCeGV7eivmXtBdt0bEvZ2eR2rzQpiN



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	Vert(LL) -0.00	4-5	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT) -0.00	4-5	>999	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-R						
	Code IRC2018/TPI2014							
							Weight: 13 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 3-0-0 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.** (lb/size)

4 =	97/Mechanical
5 =	181/0-3-8 (min. 0-1-8)
Max Horz	
5 =	55(LC 13)
Max Uplift	
4 =	-21(LC 14)
5 =	-63(LC 10)
Max Grav	
4 =	121(LC 21)
5 =	234(LC 21)

**FORCES.** (lb)

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

**NOTES-** (10-11)

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

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.

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

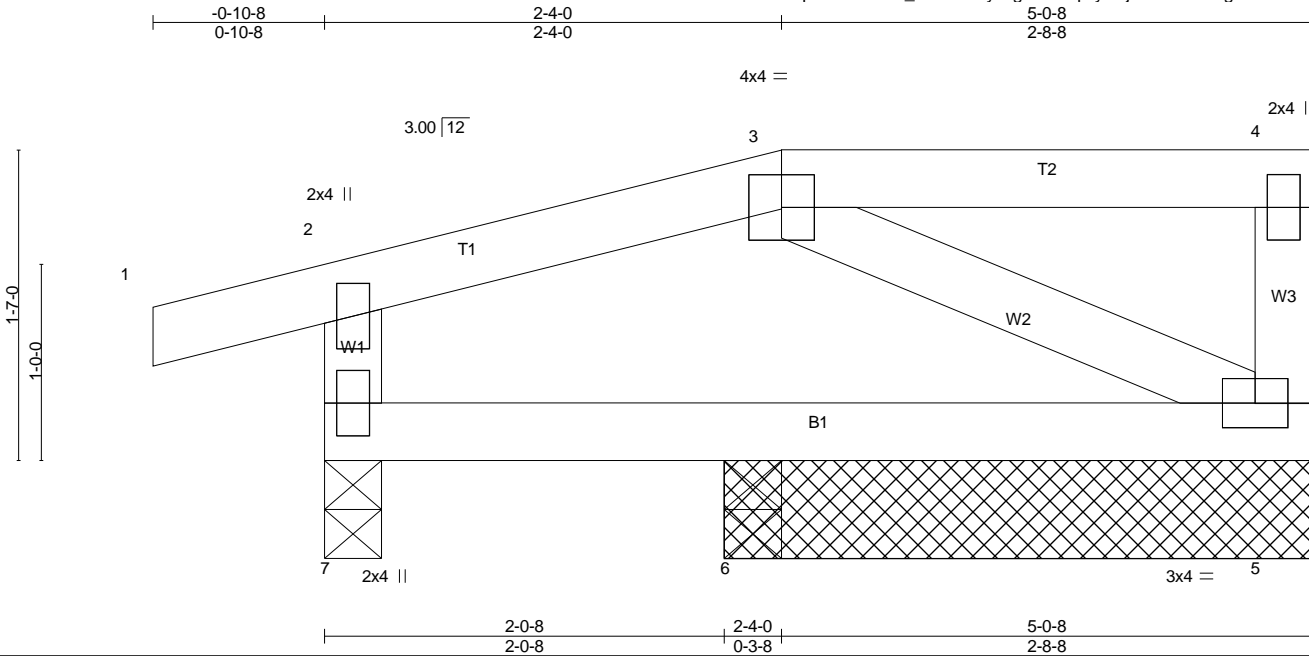
**LOAD CASE(S)**

Standard

Job 22-2661-R01	Truss R15	Truss Type Half Hip Structural Gable	Qty 1	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
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Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:18:49 2022 Page 1  
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(LL) 0.00 6-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) -0.00 5-6 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2018/TPI2014			Weight: 23 lb	FT = 0%

**LUMBER-**

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

**BRACING-**

TOP CHORD  
Structural wood sheathing directly applied or 5-0-8 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)

5 =	171/3-0-0 (min. 0-1-8)
7 =	242/0-3-8 (min. 0-1-8)
6 =	28/0-3-8 (min. 0-1-8)
Max Horz	
7 =	50(LC 11)
Max Uplift	
5 =	-51(LC 11)
7 =	-99(LC 10)
Max Grav	
5 =	217(LC 35)
7 =	302(LC 36)
6 =	98(LC 7)

**FORCES.** (lb)

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

TOP CHORD  
2-7=-267/98

**NOTES-** (12-13)

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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

6) Provide adequate drainage to prevent water ponding.

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

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

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

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7.

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)**

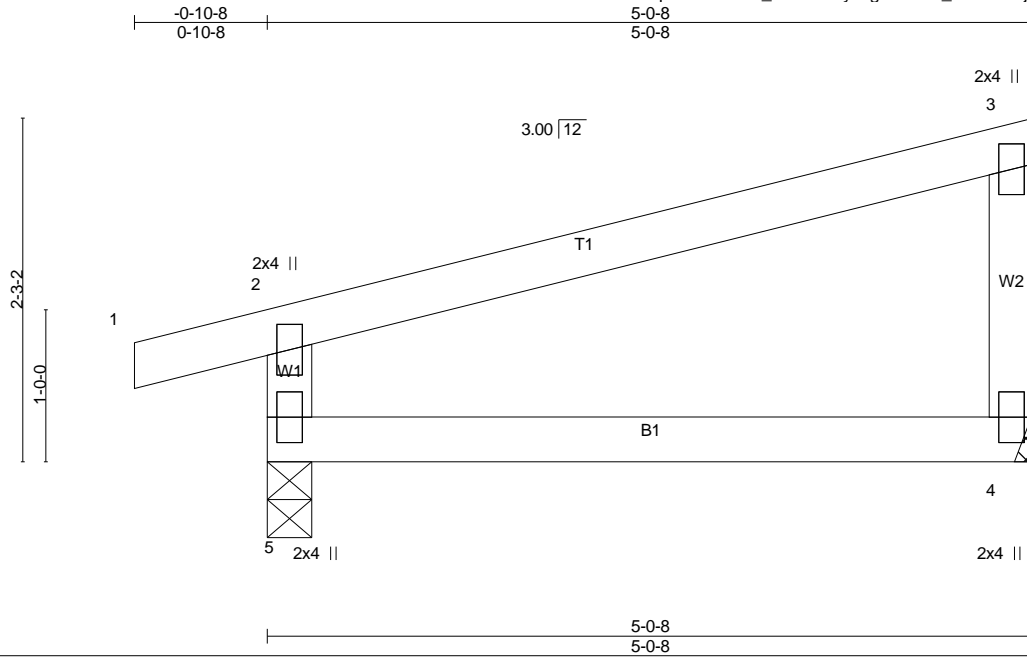
Standard

Scale = 1:11.8

Job 22-2661-R01	Truss R16	Truss Type Monopitch	Qty 1	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
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Atlantic Building Components, Moncks Corner, South Carolina

ID: O8xp6VOfF63Hc\_JffwJs1NyJJgt-X2Bz3\_3F0xN9uigncmE2yA0VUcd7QJjoy\_5IGUzQpiH  
8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:18:52 2022 Page 1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	Vert(LL) -0.02	4-5	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT) -0.04	4-5	>999	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-R						
	Code IRC2018/TPI2014							
							Weight: 20 lb	FT = 0%

#### LUMBER-

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

#### BRACING-

##### TOP CHORD

Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.

##### BOT CHORD

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

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

#### REACTIONS. (lb/size)

4 = 183/Mechanical  
5 = 258/0-3-8 (min. 0-1-8)  
Max Horz  
5 = 74(LC 11)  
Max Uplift  
4 = -41(LC 14)  
5 = -75(LC 10)  
Max Grav  
4 = 237(LC 21)  
5 = 341(LC 21)

#### FORCES. (lb)

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

##### TOP CHORD

2-5=-305/104

#### NOTES- (10-11)

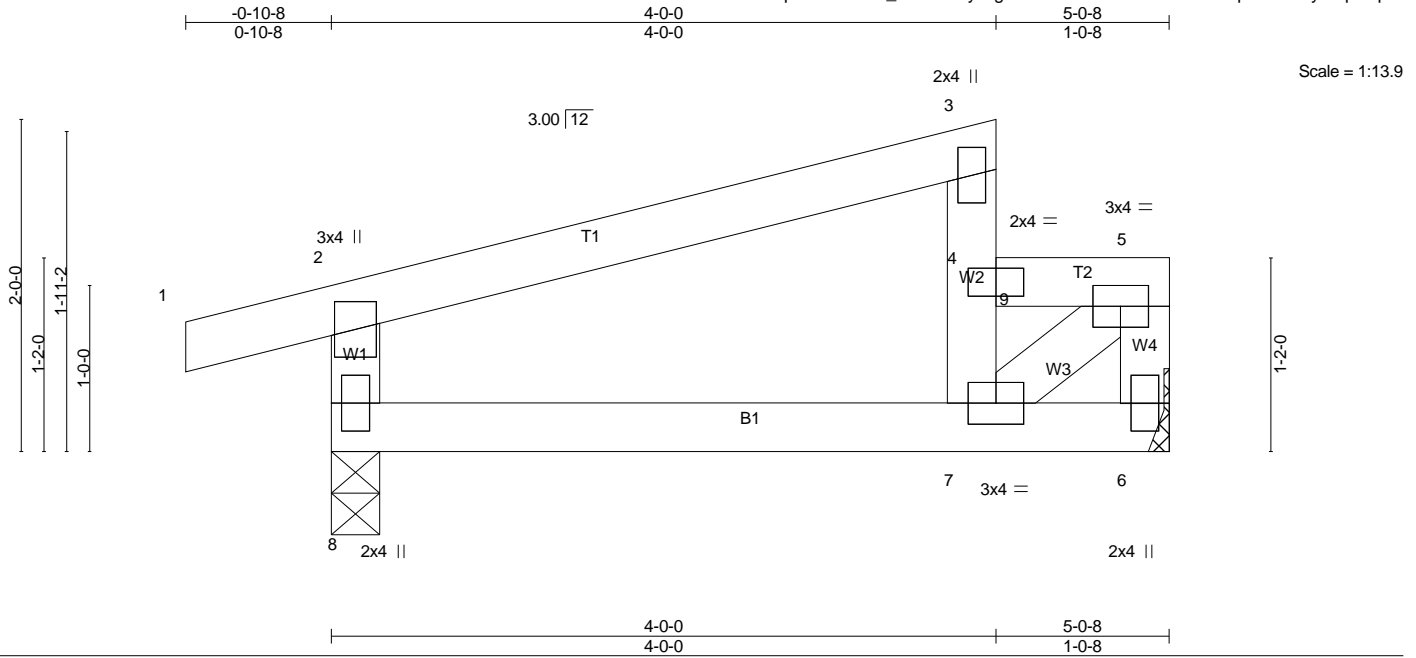
1) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft;  
Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip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

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





LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.65	Vert(LL)	-0.01	7-8	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.25	Vert(CT)	-0.02	7-8	>999		
BCLL 0.0 *	Lumber DOL 1.00	WB 0.20	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Wind(LL)	0.00	7	>999		
	Code IRC2018/TPI2014						Weight: 22 lb	FT = 0%

**LUMBER-**

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

**BRACING-**

TOP CHORD  
 Structural wood sheathing directly applied or 5-0-8 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)

6 = 491/Mechanical  
 8 = 307/0-3-8 (min. 0-1-8)  
 Max Horz  
 8 = 72(LC 11)  
 Max Uplift  
 8 = -24(LC 10)  
 Max Grav  
 6 = 582(LC 2)  
 8 = 447(LC 2)

**FORCES.** (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD  
 2-3=-296/0, 4-7=-304/0, 4-9=-384/0,  
 5-9=-384/0, 5-6=-523/0, 2-8=-379/122  
 WEBS  
 5-7=0/423

**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(2E) -0-10-8 to 4-10-12 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) TCELL: ASCE 7-16; Pr=40.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); 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) 8.
- 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: 1-2=-60, 2-3=-60, 4-9=-60, 5-9=-140, 6-8=-20  
 Concentrated Loads (lb)  
 Vert: 9=-300
  - 2) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 1-2=-100, 2-3=-100, 4-9=-100, 5-9=-180, 6-8=-20  
 Concentrated Loads (lb)  
 Vert: 9=-300
  - 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 1-2=-80, 2-3=-80, 4-9=-80, 5-9=-160, 6-8=-20  
 Concentrated Loads (lb)  
 Vert: 9=-300
  - 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-50, 2-3=-50, 4-9=-50, 5-9=-130, 6-8=-20  
 Concentrated Loads (lb)  
 Vert: 9=-300
  - 5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-56, 2-3=-56, 4-9=-29, 5-9=-109, 6-8=-20  
 Concentrated Loads (lb)

Job	Truss	Truss Type	Qty	Ply	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
22-2661-R01	R17	HALF HIP	5	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:56 2022 Page 2  
ID:O8xp6VOIf63Hc\_JffwJs1NyJgt-PpRUU6m3AtbMKzZrcl\_6?B6yD\_GM3ZNtc3yPFzQpiD

**LOAD CASE(S)**

- |  |  |   |
|--|--|---|
| <p>Standard</p> <p>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15<br/>Uniform Loads (plf)<br/>Vert: 1-2=-29, 2-3=-29, 4-9=-62, 5-9=-142, 6-8=-20<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25<br/>Uniform Loads (plf)<br/>Vert: 1-2=-20, 2-3=-20, 4-9=-20, 5-9=-100, 6-8=-40<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60<br/>Uniform Loads (plf)<br/>Vert: 1-2=56, 2-3=47, 4-9=47, 5-9=-33, 6-8=-10<br/>Horz: 1-2=-66, 2-3=-57, 3-4=-48, 5-6=37, 2-8=-37<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>9) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60<br/>Uniform Loads (plf)<br/>Vert: 1-2=0, 2-3=-45, 4-9=-45, 5-9=-125, 6-8=-20<br/>Horz: 1-2=-20, 2-3=25, 3-4=30, 5-6=-34, 2-8=34<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60<br/>Uniform Loads (plf)<br/>Vert: 1-2=38, 2-3=26, 4-9=10, 5-9=-70, 6-8=-10<br/>Horz: 1-2=-48, 2-3=-36, 3-4=9, 5-6=19, 2-8=15<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60<br/>Uniform Loads (plf)<br/>Vert: 1-2=8, 2-3=13, 4-9=26, 5-9=-54, 6-8=-10<br/>Horz: 1-2=-18, 2-3=-23, 3-4=-24, 5-6=-15, 2-8=-19<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60<br/>Uniform Loads (plf)<br/>Vert: 1-2=11, 2-3=6, 4-9=-10, 5-9=-90, 6-8=-20<br/>Horz: 1-2=-31, 2-3=-26, 3-4=30, 5-6=9, 2-8=25<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60<br/>Uniform Loads (plf)<br/>Vert: 1-2=-2, 2-3=-7, 4-9=6, 5-9=-74, 6-8=-20<br/>Horz: 1-2=-18, 2-3=-13, 3-4=-3, 5-6=-25, 2-8=-9<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60<br/>Uniform Loads (plf)<br/>Vert: 1-2=21, 2-3=26, 4-9=10, 5-9=-70, 6-8=-10<br/>Horz: 1-2=-31, 2-3=-36, 3-4=-41, 5-6=17, 2-8=12<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60<br/>Uniform Loads (plf)<br/>Vert: 1-2=5, 2-3=10, 4-9=26, 5-9=-54, 6-8=-10<br/>Horz: 1-2=-15, 2-3=-20, 3-4=-26, 5-6=-12, 2-8=-17<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60<br/>Uniform Loads (plf)<br/>Vert: 1-2=21, 2-3=26, 4-9=10, 5-9=-70, 6-8=-10<br/>Horz: 1-2=-31, 2-3=-36, 3-4=-41, 5-6=17, 2-8=12<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> | <p>Standard</p> <p>17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60<br/>Uniform Loads (plf)<br/>Vert: 1-2=5, 2-3=10, 4-9=26, 5-9=-54, 6-8=-10<br/>Horz: 1-2=-15, 2-3=-20, 3-4=-26, 5-6=-12, 2-8=-17<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60<br/>Uniform Loads (plf)<br/>Vert: 1-2=11, 2-3=6, 4-9=-10, 5-9=-90, 6-8=-20<br/>Horz: 1-2=-31, 2-3=-26, 3-4=-20, 5-6=7, 2-8=23<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60<br/>Uniform Loads (plf)<br/>Vert: 1-2=-5, 2-3=-10, 4-9=6, 5-9=-74, 6-8=-20<br/>Horz: 1-2=-15, 2-3=-10, 3-4=-5, 5-6=-23, 2-8=-7<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15<br/>Uniform Loads (plf)<br/>Vert: 1-2=-100, 2-3=-20, 4-9=-20, 5-9=-100, 6-8=-20<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15<br/>Uniform Loads (plf)<br/>Vert: 1-2=-68, 2-3=-68, 4-9=-32, 5-9=-112, 6-8=-20<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15<br/>Uniform Loads (plf)<br/>Vert: 1-2=-32, 2-3=-32, 4-9=-76, 5-9=-156, 6-8=-20<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>23) Dead: Lumber Increase=0.90, Plate Increase=0.90<br/>Plt. metal=0.90<br/>Uniform Loads (plf)<br/>Vert: 1-2=-20, 2-3=-20, 4-9=-20, 5-9=-100, 6-8=-20<br/>Concentrated Loads (lb)<br/>Vert: 9=-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<br/>Uniform Loads (plf)<br/>Vert: 1-2=-27, 2-3=-31, 4-9=-42, 5-9=-122, 6-8=-20<br/>Horz: 1-2=-23, 2-3=-19, 3-4=23, 5-6=6, 2-8=19<br/>Concentrated Loads (lb)<br/>Vert: 9=-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<br/>Uniform Loads (plf)<br/>Vert: 1-2=-37, 2-3=-40, 4-9=-31, 5-9=-111, 6-8=-20<br/>Horz: 1-2=-13, 2-3=-10, 3-4=-3, 5-6=-19, 2-8=-6<br/>Concentrated Loads (lb)<br/>Vert: 9=-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<br/>Uniform Loads (plf)<br/>Vert: 1-2=-27, 2-3=-31, 4-9=-42, 5-9=-122, 6-8=-20<br/>Horz: 1-2=-23, 2-3=-19, 3-4=-15, 5-6=5, 2-8=17<br/>Concentrated Loads (lb)<br/>Vert: 9=-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<br/>Uniform Loads (plf)</p> | <p>Standard</p> <p>Vert: 1-2=-39, 2-3=-42, 4-9=-31, 5-9=-111, 6-8=-20<br/>Horz: 1-2=-11, 2-3=-8, 3-4=-4, 5-6=-17, 2-8=-5<br/>Concentrated Loads (lb)<br/>Vert: 9=-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<br/>Uniform Loads (plf)<br/>Vert: 1-2=-57, 2-3=-61, 4-9=-72, 5-9=-152, 6-8=-20<br/>Horz: 1-2=-23, 2-3=-19, 3-4=23, 5-6=6, 2-8=19<br/>Concentrated Loads (lb)<br/>Vert: 9=-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<br/>Uniform Loads (plf)<br/>Vert: 1-2=-67, 2-3=-70, 4-9=-61, 5-9=-141, 6-8=-20<br/>Horz: 1-2=-13, 2-3=-10, 3-4=-3, 5-6=-19, 2-8=-6<br/>Concentrated Loads (lb)<br/>Vert: 9=-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<br/>Uniform Loads (plf)<br/>Vert: 1-2=-57, 2-3=-61, 4-9=-72, 5-9=-152, 6-8=-20<br/>Horz: 1-2=-23, 2-3=-19, 3-4=-15, 5-6=5, 2-8=17<br/>Concentrated Loads (lb)<br/>Vert: 9=-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<br/>Uniform Loads (plf)<br/>Vert: 1-2=-69, 2-3=-72, 4-9=-61, 5-9=-141, 6-8=-20<br/>Horz: 1-2=-11, 2-3=-8, 3-4=-4, 5-6=-17, 2-8=-5<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15<br/>Uniform Loads (plf)<br/>Vert: 1-2=-60, 2-3=-60, 4-9=-60, 5-9=-140, 6-8=-20<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>33) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60<br/>Uniform Loads (plf)<br/>Vert: 1-2=6, 2-3=-26, 4-9=-26, 5-9=-106, 6-8=-10<br/>Horz: 1-2=-16, 2-3=16, 3-4=16, 5-6=-16, 2-8=16<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60<br/>Uniform Loads (plf)<br/>Vert: 1-2=6, 2-3=6, 4-9=6, 5-9=-74, 6-8=-10<br/>Horz: 1-2=-16, 2-3=-16, 3-4=-16, 5-6=16, 2-8=-16<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>35) 3rd Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15<br/>Uniform Loads (plf)<br/>Vert: 1-2=-32, 2-3=-32, 4-9=-89, 5-9=-169, 6-8=-20<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>36) 4th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15<br/>Uniform Loads (plf)<br/>Vert: 1-2=-89, 2-3=-89, 4-9=-32, 5-9=-112, 6-8=-20<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>37) 5th Unbal. Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15<br/>Uniform Loads (plf)<br/>Vert: 1-2=-29, 2-3=-29, 4-9=-72, 5-9=-152, 6-8=-20<br/>Concentrated Loads (lb)<br/>Vert: 9=-300</p> <p>38) 6th Unbal. Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15<br/>Uniform Loads (plf)</p> |
|--|--|---|

Continued on page 3

Job	Truss	Truss Type	Qty	Ply	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
22-2661-R01	R17	HALF HIP	5	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:18:56 2022 Page 3  
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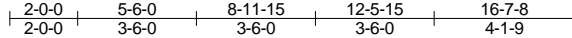
### LOAD CASE(S)

- Standard
- Uniform Loads (plf)  
Vert: 1-2=-72, 2-3=-72, 4-9=-29, 5-9=-109, 6-8=-20  
Concentrated Loads (lb)  
Vert: 9=-300
- 39) 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  
Uniform Loads (plf)  
Vert: 1-2=-6, 2-3=-10, 4-9=-64, 5-9=-144, 6-8=-20  
Horz: 1-2=-23, 2-3=-19, 3-4=23, 5-6=6, 2-8=19  
Concentrated Loads (lb)  
Vert: 9=-300
- 40) 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  
Uniform Loads (plf)  
Vert: 1-2=-49, 2-3=-53, 4-9=-21, 5-9=-101, 6-8=-20  
Horz: 1-2=-23, 2-3=-19, 3-4=23, 5-6=6, 2-8=19  
Concentrated Loads (lb)  
Vert: 9=-300
- 41) 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=-16, 2-3=-19, 4-9=-53, 5-9=-133, 6-8=-20  
Horz: 1-2=-13, 2-3=-10, 3-4=-3, 5-6=-19, 2-8=-6  
Concentrated Loads (lb)  
Vert: 9=-300
- 42) 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=-58, 2-3=-62, 4-9=-10, 5-9=-90, 6-8=-20  
Horz: 1-2=-13, 2-3=-10, 3-4=-3, 5-6=-19, 2-8=-6  
Concentrated Loads (lb)  
Vert: 9=-300
- 43) 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=-6, 2-3=-10, 4-9=-64, 5-9=-144, 6-8=-20  
Horz: 1-2=-23, 2-3=-19, 3-4=-15, 5-6=5, 2-8=17  
Concentrated Loads (lb)  
Vert: 9=-300
- 44) 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=-49, 2-3=-53, 4-9=-21, 5-9=-101, 6-8=-20  
Horz: 1-2=-23, 2-3=-19, 3-4=-15, 5-6=5, 2-8=17  
Concentrated Loads (lb)  
Vert: 9=-300
- 45) 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=-18, 2-3=-21, 4-9=-53, 5-9=-133, 6-8=-20  
Horz: 1-2=-11, 2-3=-8, 3-4=-4, 5-6=-17, 2-8=-5  
Concentrated Loads (lb)  
Vert: 9=-300
- 46) 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=-61, 2-3=-64, 4-9=-10, 5-9=-90, 6-8=-20  
Horz: 1-2=-11, 2-3=-8, 3-4=-4, 5-6=-17, 2-8=-5  
Concentrated Loads (lb)  
Vert: 9=-300
- 47) 15th Unbal. Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-32, 2-3=-32, 4-9=-89, 5-9=-169, 6-8=-20  
Concentrated Loads (lb)  
Vert: 9=-300
- 48) 16th Unbal. Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)

- Standard
- Vert: 1-2=-89, 2-3=-89, 4-9=-32, 5-9=-112, 6-8=-20  
Concentrated Loads (lb)  
Vert: 9=-300
- 49) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-100, 2-3=-100, 4-9=-20, 5-9=-100, 6-8=-20  
Concentrated Loads (lb)  
Vert: 9=-300
- 50) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-3=-20, 4-9=-100, 5-9=-180, 6-8=-20  
Concentrated Loads (lb)  
Vert: 9=-300
- 51) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-80, 2-3=-80, 4-9=-20, 5-9=-100, 6-8=-20  
Concentrated Loads (lb)  
Vert: 9=-300
- 52) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-3=-20, 4-9=-80, 5-9=-160, 6-8=-20  
Concentrated Loads (lb)  
Vert: 9=-300

Job 22-2661-R01	Truss R18	Truss Type Roof Special	Qty 1	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:18:59 2022 Page 1  
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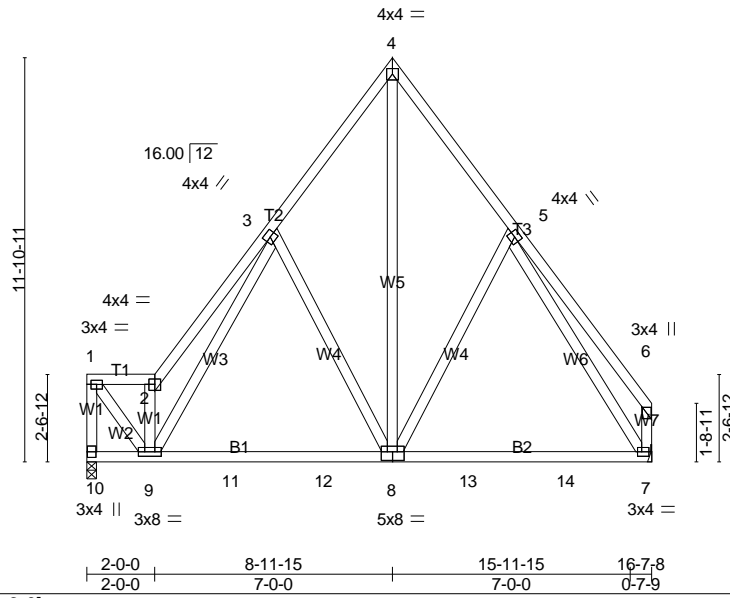


Plate Offsets (X,Y)-- [7:0-1-8,0-1-8], [8:0-4-0,0-3-0]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	-0.13	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.20	7-8	>968		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH						
								Weight: 137 lb	FT = 0%

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

**BRACING-**  
 TOP CHORD  
 Structural wood sheathing directly applied or 5-4-2 oc purlins, except end verticals.  
 BOT CHORD  
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**WEBS**  
 1-9=-90/916, 2-9=-888/283,  
 3-9=-165/493, 3-8=-354/259,  
 4-8=-333/699, 5-8=-248/270,  
 5-7=-567/79

**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) Provide adequate drainage to prevent water ponding.  
 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.  
 7) Refer to girder(s) for truss to truss connections.  
 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7.  
 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

**LOAD CASE(S)**  
 Standard

**REACTIONS.** (lb/size)

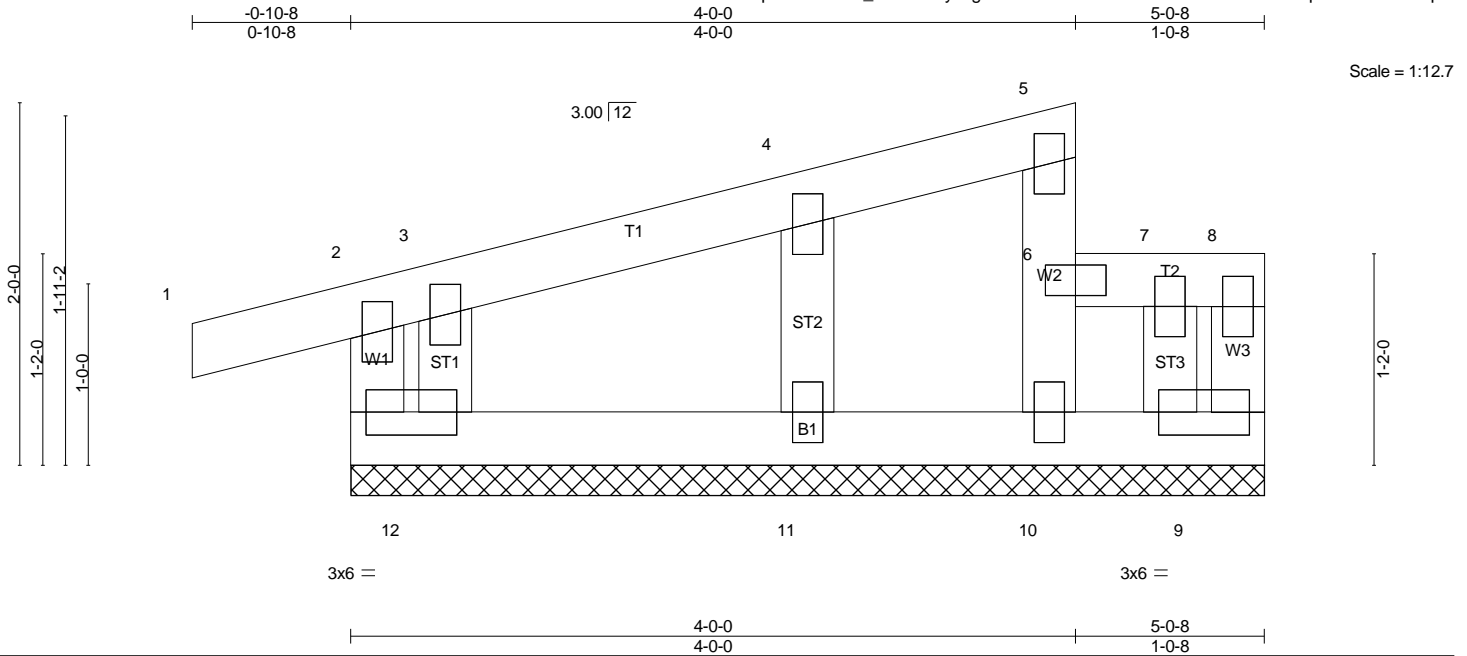
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7 =	653/Mechanical
Max Horz	
10 =	-308(LC 8)
Max Uplift	
10 =	-89(LC 13)
7 =	-95(LC 12)
Max Grav	
10 =	733(LC 20)
7 =	768(LC 19)

**FORCES.** (lb)  
 Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD  
 1-10=-771/82, 1-2=-552/92,  
 2-3=-1024/295, 3-4=-595/261,  
 4-5=-582/264, 5-6=-293/196,  
 6-7=-291/180  
 BOT CHORD  
 9-10=-283/288, 9-11=-133/520,  
 11-12=-133/520, 8-12=-133/520,  
 8-13=-32/372, 13-14=-32/372,  
 7-14=-32/372  
 WEBS  
 1-9=-90/916, 2-9=-888/283, 3-9=-165/493,

Job 22-2661-R01	Truss R19	Truss Type HALF HIP SUPPORTED	Qty 1	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.15	Vert(LL) -0.00	1	n/r	180	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.06	Vert(CT) -0.00	1	n/r	80		
BCLL 0.0 *	Lumber DOL 1.00	WB 0.05	Horz(CT) -0.00	9	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-R						
	Code IRC2018/TPI2014						Weight: 24 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 5-0-8 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 5-0-8.

(lb) - Max Horz  
12= 72(LC 11)  
Max Uplift  
All uplift 100 lb or less at joint(s)  
12, 11  
Max Grav  
All reactions 250 lb or less at joint(s)  
10, 11 except 12=267(LC 2), 9=313(LC 50)

**FORCES.** (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS  
7-9=-269/0

**NOTES-** (17-18)

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 Corner(3E) -0-10-8 to 4-10-12 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=40.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

5) Unbalanced snow loads have been considered for this design.  
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

7) Provide adequate drainage to prevent water ponding.

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

9) Gable requires continuous bottom chord bearing.

10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

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

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

13) \* 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.

14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 11.

15) 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.

16) 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.

17) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.

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

**LOAD CASE(S)**

Standard

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

Uniform Loads (plf)  
Vert: 1-2=-60, 2-5=-60, 6-8=-60, 9-12=-20  
Concentrated Loads (lb)  
Vert: 7=-300

2) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)  
Vert: 1-2=-80, 2-5=-100, 6-8=-100, 9-12=-20  
Concentrated Loads (lb)  
Vert: 7=-300

3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)  
Vert: 1-2=-80, 2-5=-80, 6-8=-80, 9-12=-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, 2-5=-50, 6-8=-50, 9-12=-20  
Concentrated Loads (lb)

Job	Truss	Truss Type	Qty	Ply	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
22-2661-R01	R19	HALF HIP SUPPORTED	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Fb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:19:02 2022 Page 2  
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### LOAD CASE(S)

Standard	Standard	Standard
Concentrated Loads (lb) Vert: 7=-300	15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-12=17, 1-2=5, 2-5=10, 6-8=26, 8-9=12, 9-12=-10 Horz: 2-12=-17, 1-2=-15, 2-5=-20, 5-6=-26, 8-9=-12 Concentrated Loads (lb) Vert: 7=-300	Vert: 2-12=-19, 1-2=-27, 2-5=-31, 6-8=-42, 8-9=-6, 9-12=-20 Horz: 2-12=19, 1-2=-23, 2-5=-19, 5-6=23, 8-9=6 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=-56, 2-5=-56, 6-8=-29, 9-12=-20 Concentrated Loads (lb) Vert: 7=-300	16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-12=-12, 1-2=21, 2-5=26, 6-8=10, 8-9=-17, 9-12=-10 Horz: 2-12=12, 1-2=-31, 2-5=-36, 5-6=-41, 8-9=17 Concentrated Loads (lb) Vert: 7=-300	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: 2-12=6, 1-2=-37, 2-5=-40, 6-8=-31, 8-9=19, 9-12=-20 Horz: 2-12=-6, 1-2=-13, 2-5=-10, 5-6=-3, 8-9=-19 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, 2-5=-29, 6-8=-62, 9-12=-20 Concentrated Loads (lb) Vert: 7=-300	17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-12=17, 1-2=5, 2-5=10, 6-8=26, 8-9=12, 9-12=-10 Horz: 2-12=-17, 1-2=-15, 2-5=-20, 5-6=-26, 8-9=-12 Concentrated Loads (lb) Vert: 7=-300	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: 2-12=-17, 1-2=-27, 2-5=-31, 6-8=-42, 8-9=-5, 9-12=-20 Horz: 2-12=17, 1-2=-23, 2-5=-19, 5-6=-15, 8-9=5 Concentrated Loads (lb) Vert: 7=-300
7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-2=-20, 2-5=-20, 6-8=-20, 9-12=-40 Concentrated Loads (lb) Vert: 7=-300	18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-12=-23, 1-2=11, 2-5=6, 6-8=-10, 8-9=-7, 9-12=-20 Horz: 2-12=23, 1-2=-31, 2-5=-26, 5-6=-20, 8-9=7 Concentrated Loads (lb) Vert: 7=-300	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: 2-12=5, 1-2=-39, 2-5=-42, 6-8=-31, 8-9=17, 9-12=-20 Horz: 2-12=-5, 1-2=-11, 2-5=-8, 5-6=-4, 8-9=-17 Concentrated Loads (lb) Vert: 7=-300
8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-12=45, 1-2=107, 2-5=81, 6-8=81, 8-9=-45, 9-12=-10 Horz: 2-12=-45, 1-2=-117, 2-5=-91, 5-6=-10, 8-9=45 Concentrated Loads (lb) Vert: 7=-300	19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-12=7, 1-2=-5, 2-5=-10, 6-8=6, 8-9=23, 9-12=-20 Horz: 2-12=-7, 1-2=-15, 2-5=-10, 5-6=-5, 8-9=-23 Concentrated Loads (lb) Vert: 7=-300	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: 2-12=-19, 1-2=-57, 2-5=-61, 6-8=-72, 8-9=-6, 9-12=-20 Horz: 2-12=19, 1-2=-23, 2-5=-19, 5-6=23, 8-9=6 Vert: 7=-300
9) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-12=-34, 1-2=0, 2-5=-45, 6-8=-45, 8-9=34, 9-12=-20 Horz: 2-12=34, 1-2=-20, 2-5=25, 5-6=30, 8-9=-34 Concentrated Loads (lb) Vert: 7=-300	20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-100, 2-5=-20, 6-8=-20, 9-12=-20 Concentrated Loads (lb) Vert: 7=-300	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: 2-12=6, 1-2=-67, 2-5=-70, 6-8=-61, 8-9=19, 9-12=-20 Horz: 2-12=-6, 1-2=-13, 2-5=-10, 5-6=-3, 8-9=-19 Concentrated Loads (lb) Vert: 7=-300
10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-12=-15, 1-2=38, 2-5=26, 6-8=10, 8-9=-19, 9-12=-10 Horz: 2-12=15, 1-2=-48, 2-5=-36, 5-6=9, 8-9=19 Concentrated Loads (lb) Vert: 7=-300	21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-68, 2-5=-68, 6-8=-32, 9-12=-20 Concentrated Loads (lb) Vert: 7=-300	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: 2-12=-17, 1-2=-57, 2-5=-61, 6-8=-72, 8-9=-5, 9-12=-20 Horz: 2-12=17, 1-2=-23, 2-5=-19, 5-6=-15, 8-9=5 Concentrated Loads (lb) Vert: 7=-300
11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-12=19, 1-2=8, 2-5=13, 6-8=26, 8-9=15, 9-12=-10 Horz: 2-12=-19, 1-2=-18, 2-5=-23, 5-6=-24, 8-9=-15 Concentrated Loads (lb) Vert: 7=-300	22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-32, 2-5=-32, 6-8=-76, 9-12=-20 Concentrated Loads (lb) Vert: 7=-300	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: 2-12=5, 1-2=-69, 2-5=-72, 6-8=-61, 8-9=17, 9-12=-20 Horz: 2-12=-5, 1-2=-11, 2-5=-8, 5-6=-4, 8-9=-17 Concentrated Loads (lb) Vert: 7=-300
12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-12=-25, 1-2=11, 2-5=6, 6-8=-10, 8-9=-9, 9-12=-20 Horz: 2-12=25, 1-2=-31, 2-5=-26, 5-6=30, 8-9=9 Concentrated Loads (lb) Vert: 7=-300	23) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90 Uniform Loads (plf) Vert: 1-2=-20, 2-5=-20, 6-8=-20, 9-12=-20 Concentrated Loads (lb) Vert: 7=-300	32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-60, 2-5=-60, 6-8=-60, 9-12=-20 Concentrated Loads (lb) Vert: 7=-300
13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-12=9, 1-2=-2, 2-5=-7, 6-8=6, 8-9=25, 9-12=-20 Horz: 2-12=-9, 1-2=-18, 2-5=-13, 5-6=-3, 8-9=-25 Concentrated Loads (lb) Vert: 7=-300	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)	33) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 2-12=-12, 1-2=21, 2-5=26, 6-8=10, 8-9=-17, 9-12=-10 Horz: 2-12=12, 1-2=-31, 2-5=-36, 5-6=-41, 8-9=17 Concentrated Loads (lb) Vert: 7=-300		

Continued on page 3

Job	Truss	Truss Type	Qty	Ply	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
22-2661-R01	R19	HALF HIP SUPPORTED	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:19:02 2022 Page 3  
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### LOAD CASE(S)

#### Standard

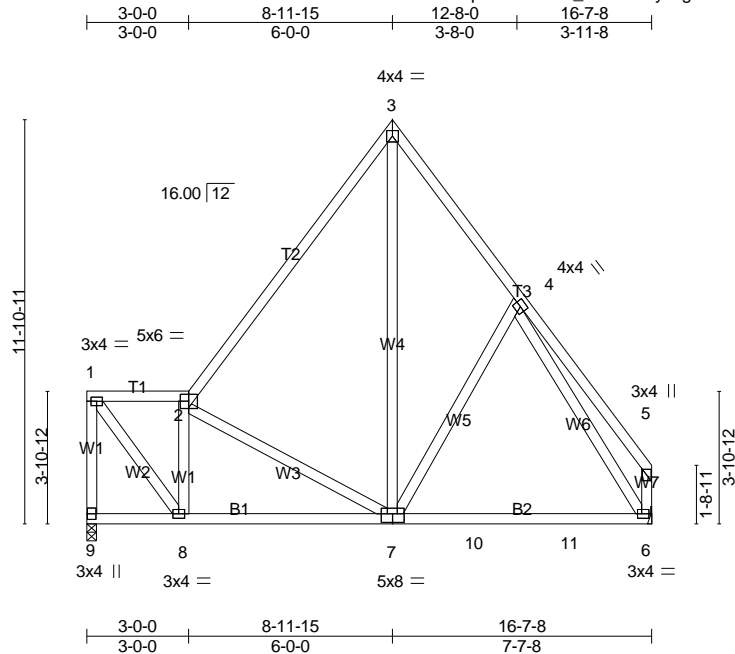
- Uniform Loads (plf)  
Vert: 2-12=-16, 1-2=6, 2-5=-26, 6-8=-26, 8-9=16, 9-12=-10  
Horz: 2-12=16, 1-2=-16, 2-5=16, 5-6=16, 8-9=-16  
Concentrated Loads (lb)  
Vert: 7=-300
- 34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 2-12=16, 1-2=6, 2-5=6, 6-8=6, 8-9=-16, 9-12=-10  
Horz: 2-12=-16, 1-2=-16, 2-5=-16, 5-6=-16, 8-9=16  
Concentrated Loads (lb)  
Vert: 7=-300
- 35) 3rd Unbal.Death + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-32, 2-5=-32, 6-8=-89, 9-12=-20  
Concentrated Loads (lb)  
Vert: 7=-300
- 36) 4th Unbal.Death + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-89, 2-5=-89, 6-8=-32, 9-12=-20  
Concentrated Loads (lb)  
Vert: 7=-300
- 37) 5th Unbal.Death + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-29, 2-5=-29, 6-8=-72, 9-12=-20  
Concentrated Loads (lb)  
Vert: 7=-300
- 38) 6th Unbal.Death + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-72, 2-5=-72, 6-8=-29, 9-12=-20  
Concentrated Loads (lb)  
Vert: 7=-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: 2-12=-19, 1-2=-6, 2-5=-10, 6-8=-64, 8-9=-6, 9-12=-20  
Horz: 2-12=19, 1-2=-23, 2-5=-19, 5-6=23, 8-9=6  
Concentrated Loads (lb)  
Vert: 7=-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: 2-12=-19, 1-2=-49, 2-5=-53, 6-8=-21, 8-9=-6, 9-12=-20  
Horz: 2-12=19, 1-2=-23, 2-5=-19, 5-6=23, 8-9=6  
Concentrated Loads (lb)  
Vert: 7=-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: 2-12=6, 1-2=-16, 2-5=-19, 6-8=-53, 8-9=19, 9-12=-20  
Horz: 2-12=-6, 1-2=-13, 2-5=-10, 5-6=-3, 8-9=-19  
Concentrated Loads (lb)  
Vert: 7=-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: 2-12=6, 1-2=-58, 2-5=-62, 6-8=-10, 8-9=19, 9-12=-20  
Horz: 2-12=-6, 1-2=-13, 2-5=-10, 5-6=-3, 8-9=-19  
Concentrated Loads (lb)  
Vert: 7=-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

#### Standard

- Uniform Loads (plf)  
Vert: 2-12=-17, 1-2=-6, 2-5=-10, 6-8=-64, 8-9=-5, 9-12=-20  
Horz: 2-12=17, 1-2=-23, 2-5=-19, 5-6=-15, 8-9=5  
Concentrated Loads (lb)  
Vert: 7=-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: 2-12=-17, 1-2=-49, 2-5=-53, 6-8=-21, 8-9=-5, 9-12=-20  
Horz: 2-12=17, 1-2=-23, 2-5=-19, 5-6=-15, 8-9=5  
Concentrated Loads (lb)  
Vert: 7=-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: 2-12=5, 1-2=-18, 2-5=-21, 6-8=-53, 8-9=17, 9-12=-20  
Horz: 2-12=-5, 1-2=-11, 2-5=-8, 5-6=-4, 8-9=-17  
Concentrated Loads (lb)  
Vert: 7=-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  
Uniform Loads (plf)  
Vert: 2-12=5, 1-2=-61, 2-5=-64, 6-8=-10, 8-9=17, 9-12=-20  
Horz: 2-12=-5, 1-2=-11, 2-5=-8, 5-6=-4, 8-9=-17  
Concentrated Loads (lb)  
Vert: 7=-300
- 47) 15th Unbal.Death + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-32, 2-5=-32, 6-8=-89, 9-12=-20  
Concentrated Loads (lb)  
Vert: 7=-300
- 48) 16th Unbal.Death + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-89, 2-5=-89, 6-8=-32, 9-12=-20  
Concentrated Loads (lb)  
Vert: 7=-300
- 49) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-100, 2-5=-100, 6-8=-20, 9-12=-20  
Concentrated Loads (lb)  
Vert: 7=-300
- 50) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-5=-20, 6-8=-100, 9-12=-20  
Concentrated Loads (lb)  
Vert: 7=-300
- 51) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-80, 2-5=-80, 6-8=-20, 9-12=-20  
Concentrated Loads (lb)  
Vert: 7=-300
- 52) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-5=-20, 6-8=-80, 9-12=-20  
Concentrated Loads (lb)  
Vert: 7=-300

Job 22-2661-R01	Truss R20	Truss Type Roof Special	Qty 1	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:19:05 2022 Page 1  
 ID:O8xp6VOFF63Hc\_JffwJs1NyJJgt-eYUtnQDPyx0Jyj9Ht?z5\_v3evry1z3kixVxkDEzQpi4



Scale = 1:67.8

Plate Offsets (X,Y)-- [6:0-1-8,0-1-8], [7:0-4-0,0-3-0]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15		TC 0.70	Vert(LL) -0.17	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.65	Vert(CT) -0.25	6-7	>793	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.53	Horz(CT) 0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH						
								Weight: 130 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 4-11-10 oc purlins, except end verticals.  
 BOT CHORD  
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size)

9 =	653/0-3-8 (min. 0-1-8)
6 =	653/Mechanical
Max Horiz	
9 =	-321(LC 8)
Max Uplift	
9 =	-90(LC 13)
6 =	-84(LC 12)
Max Grav	
9 =	653(LC 1)
6 =	725(LC 19)

**FORCES.** (lb)  
 Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD**  
 1-9=-634/109, 1-2=-461/148,  
 2-3=-606/197, 3-4=-546/249,  
 4-5=-297/189, 5-6=-289/174  
**BOT CHORD**  
 8-9=-277/291, 7-8=-167/591,  
 7-10=-29/338, 10-11=-29/338,  
 6-11=-29/338  
**WEBS**  
 1-8=-155/736, 2-8=-523/164,  
 2-7=-372/212, 3-7=-208/532,  
 4-7=-217/254, 4-6=-481/69

**WEBS**  
 1-8=-155/736, 2-8=-523/164,  
 2-7=-372/212, 3-7=-208/532,  
 4-7=-217/254, 4-6=-481/69

**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; TC DL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Provide adequate drainage to prevent water ponding.  
 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.  
 7) Refer to girder(s) for truss to truss connections.  
 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 6.  
 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.

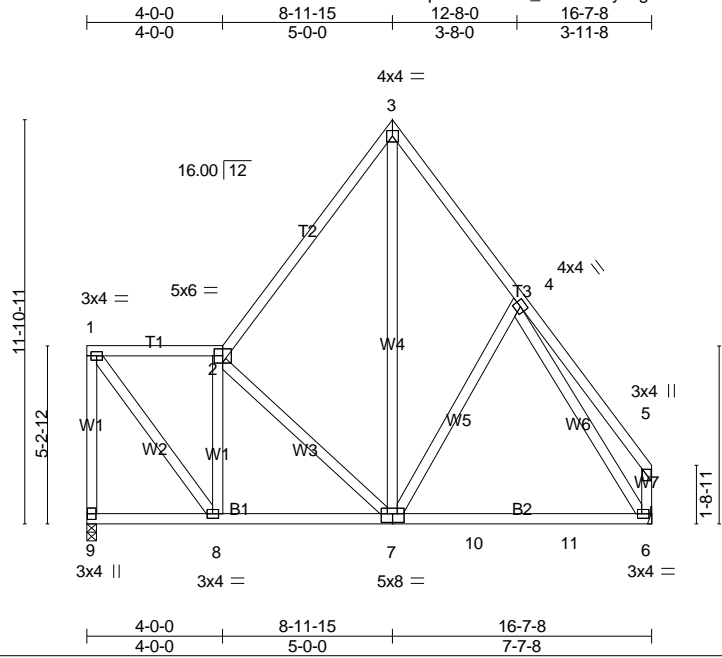
- 10) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- 11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the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

**LOAD CASE(S)**  
 Standard



Job 22-2661-R01	Truss R21	Truss Type Roof Special	Qty 1	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:19:08 2022 Page 1  
 ID:O8xp6VOF63Hc\_JffwJs1NyJJgt-3790QSFHEsOupAusY7WobXhCv2\_iAPv8dTzbqZzQpi1



Scale = 1:67.8

Plate Offsets (X,Y)--	[6:0-1-8,0-1-8], [7:0-4-0,0-3-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.16 6-7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.65	Vert(CT) -0.25 6-7 >789 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(CT) 0.01 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-SH			
				Weight: 135 lb	FT = 0%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
**BRACING-**  
 TOP CHORD  
 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD  
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size)

9 =	653/0-3-8 (min. 0-1-8)
6 =	653/Mechanical
Max Horiz	
9 =	-335(LC 8)
Max Uplift	
9 =	-91(LC 13)
6 =	-67(LC 12)
Max Grav	
9 =	653(LC 1)
6 =	722(LC 19)

**FORCES.** (lb)  
 Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD  
 1-9=-618/121, 1-2=-426/149,  
 2-3=-575/210, 3-4=-550/253,  
 4-5=-296/185, 5-6=-285/170  
 BOT CHORD  
 8-9=-270/295, 7-8=-146/520,  
 7-10=-30/337, 10-11=-30/337,  
 6-11=-30/337  
 WEBS  
 1-8=-126/664, 2-8=-487/136,  
 2-7=-342/197, 3-7=-248/581,  
 4-7=-229/258, 4-6=-480/73

**WEBS**  
 1-8=-126/664, 2-8=-487/136,  
 2-7=-342/197, 3-7=-248/581,  
 4-7=-229/258, 4-6=-480/73

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

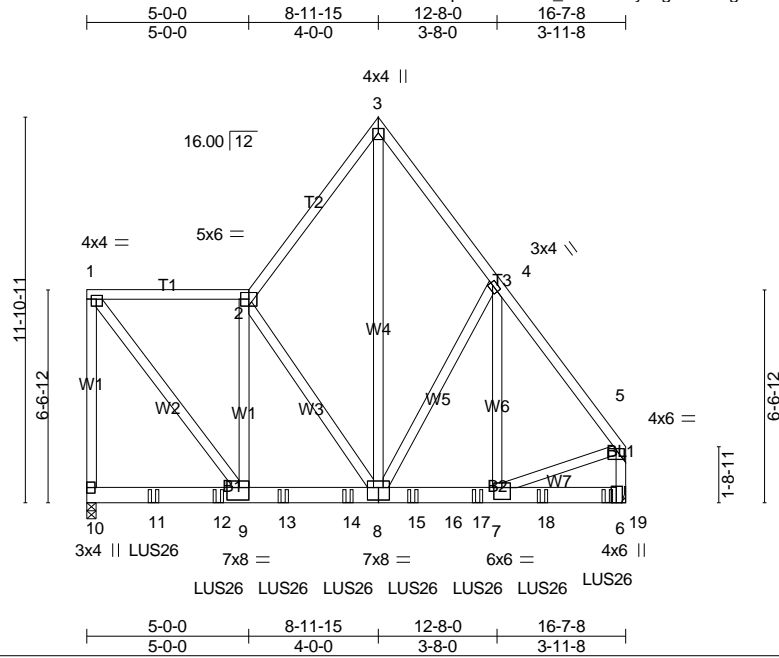
- 10) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
- 11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the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

**LOAD CASE(S)**  
 Standard

Job 22-2661-R01	Truss R22	Truss Type Roof Special Girder	Qty 1	Ply 2	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
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Atlantic Building Components, Moncks Corner, South Carolina

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8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:19:14 2022 Page 1



Scale = 1:71.1

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.86	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.78	Vert(LL) -0.06 8-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.91	Vert(CT) -0.12 8-9 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.01 6 n/a n/a		
	Code IRC2018/TPI2014			Weight: 316 lb	FT = 0%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.1

**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.

**REACTIONS.** (lb/size)

10	=	4228/0-3-8 (min. 0-2-9)
6	=	4952/Mechanical
Max Horz		
10	=	-345(LC 33)
Max Uplift		
10	=	-525(LC 6)
6	=	-519(LC 10)
Max Grav		
10	=	4317(LC 3)
6	=	5090(LC 3)

**FORCES.** (lb)

Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD  
 1-10=-3616/476, 1-2=-2685/391,  
 2-3=-2908/506, 3-4=-2919/474,  
 4-5=-3728/443, 5-6=-3773/421  
 BOT CHORD  
 10-11=-262/304, 11-12=-262/304,  
 9-12=-262/304, 9-13=-394/2707,  
 13-14=-394/2707, 8-14=-394/2707,  
 8-15=-236/2187, 15-16=-236/2187,  
 16-17=-236/2187, 7-17=-236/2187  
 WEBS  
 1-9=-556/4382, 2-9=-981/206,  
 2-8=-1859/278, 3-8=-695/4268,  
 4-8=-1032/328, 4-7=-152/1413,

**WEBS**

1-9=-556/4382, 2-9=-981/206,  
 2-8=-1859/278, 3-8=-695/4268,  
 4-8=-1032/328, 4-7=-152/1413,  
 5-7=-234/2123

**NOTES-** (15-16)

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

9) Refer to girder(s) for truss to truss connections.

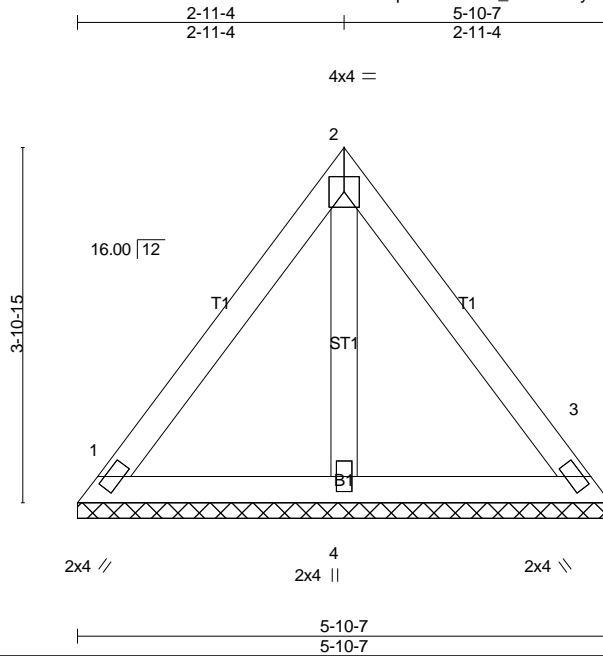
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=525, 6=519.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie LUS26 (4-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent spaced at 12-0-0 oc max. starting at 2-0-12 from the left end to 16-0-12 to connect truss(es) R06A (1 ply 2x4 SP) to front face of bottom chord.
- Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-0-12 from the left end to 12-0-12 to connect truss(es) R06 (1 ply 2x4 SP) to front 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
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-60, 2-3=-60, 3-5=-60, 6-10=-20  
 Concentrated Loads (lb)  
 Vert: 11=-980(F) 12=-986(F) 13=-986(F) 14=-986(F)  
 15=-986(F) 17=-986(F) 18=-980(F) 19=-985(F)

Job 22-2661-R01	Truss VT05	Truss Type Valley	Qty 1	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
Atlantic Building Components, Moncks Corner, South Carolina					Job Reference (optional)

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:19:17 2022 Page 1  
 ID:O8xp6VOfF63Hc\_JffwJs1NyJgt-IsCQIXMx7dWcOZ4baWBvTRZp?hB8ncYTINeadYzQphu



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	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					Weight: 27 lb	FT = 0%
	Code IRC2018/TPI2014							

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

**BRACING-**  
 TOP CHORD  
 Structural wood sheathing directly applied or 5-10-7 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 =	137/5-10-7 (min. 0-1-8)
3 =	137/5-10-7 (min. 0-1-8)
4 =	150/5-10-7 (min. 0-1-8)

Max Horz  
 1 = -88(LC 8)

Max Uplift  
 1 = -43(LC 13)  
 3 = -36(LC 12)

Max Grav  
 1 = 137(LC 1)  
 3 = 137(LC 1)  
 4 = 160(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

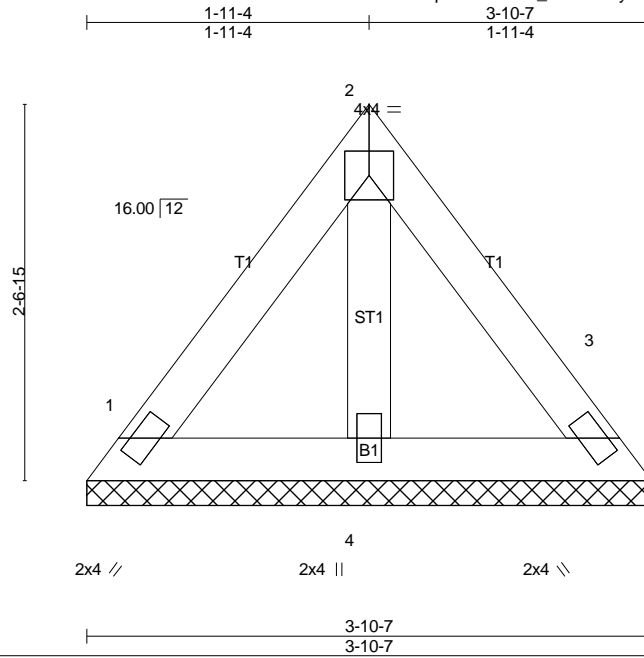
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent 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 100 lb uplift at joint(s) 1, 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	Truss	Truss Type	Qty	Ply	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
22-2661-R01	VT06	Valley	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:19:20 2022 Page 1  
 ID:O8xp6VOF63Hc\_JffwJs1NyJgt-iQuYxYPpQYvBF1pAFekc53AL2uE?\_zUvOLtEEszQphr



Scale = 1:15.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	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: 17 lb	FT = 0%

**LUMBER-**

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

**BRACING-**

**TOP CHORD**

Structural wood sheathing directly applied or 3-10-7 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 = 85/3-10-7 (min. 0-1-8)  
 3 = 85/3-10-7 (min. 0-1-8)  
 4 = 93/3-10-7 (min. 0-1-8)

**Max Horz**

1 = -54(LC 8)

**Max Uplift**

1 = -27(LC 13)

3 = -22(LC 12)

**Max Grav**

1 = 85(LC 1)

3 = 85(LC 1)

4 = 100(LC 5)

**FORCES.** (lb)

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

**LOAD CASE(S)**

Standard

**NOTES-** (9-10)

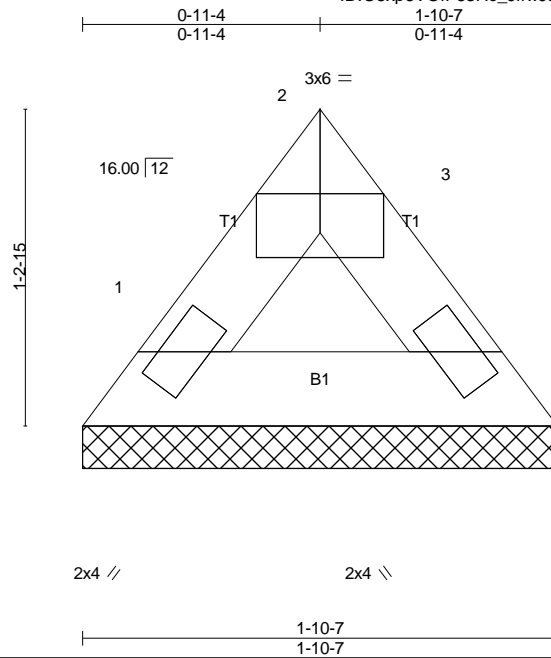
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and 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 100 lb uplift at joint(s) 1, 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 22-2661-R01	Truss VT07	Truss Type Valley	Qty 1	Ply 1	LOT 19 CROSSING @ ANDERSON CREEK   209 TIMBER SKIP DRIVE SPR
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Atlantic Building Components, Moncks Corner, South Carolina

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8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:19:22 2022 Page 1



Scale = 1:9.1

Plate Offsets (X,Y)-- [2:Edge,0-1-13]										
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 6 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 1-10-7 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 = 51/1-10-7 (min. 0-1-8)

3 = 51/1-10-7 (min. 0-1-8)

Max Horz

1 = -21(LC 8)

Max Uplift

1 = -7(LC 13)

3 = -7(LC 12)

**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 100 lb uplift at joint(s) 1, 3.

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.

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

**LOAD CASE(S)**

Standard