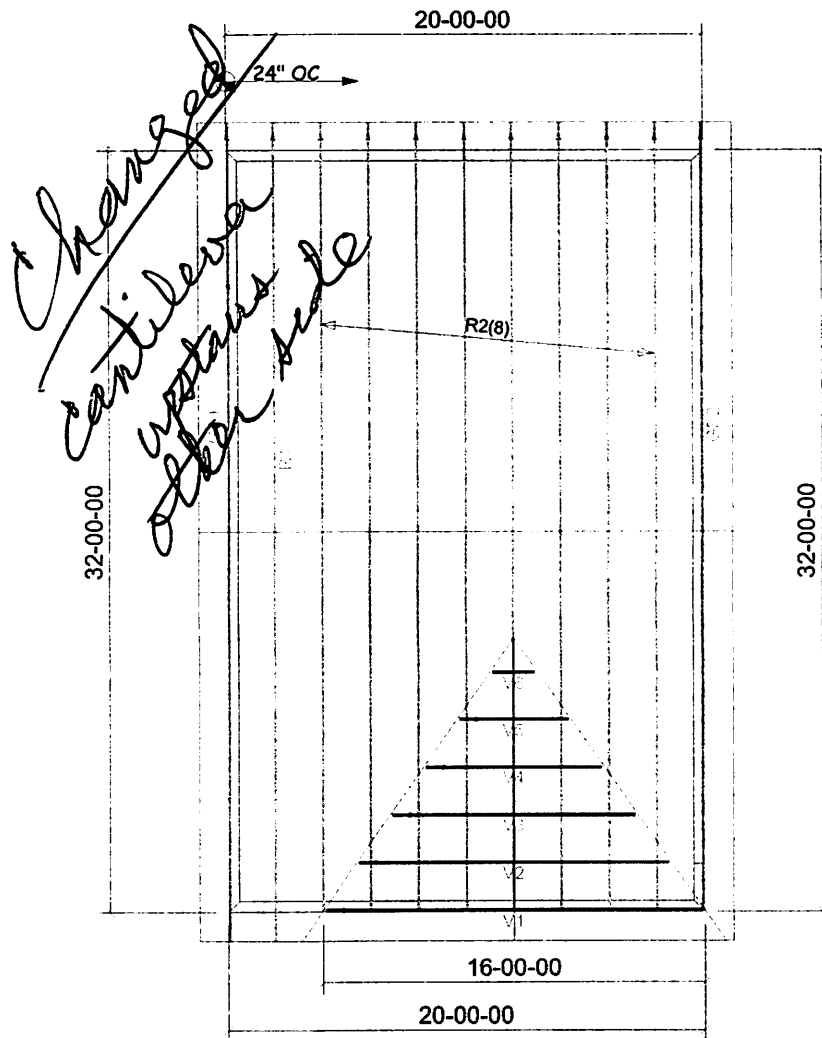


Same as 21 Woodfin
except for ~~Basement~~
change trusses
2' extension on front



NOTES:

- DO NOT CUT ANY TRUSS!!
This is an engineered component.
Alterations of ANY type WILL void the warranty of this product.
- Customers to verify ALL dimensions, wall heights, stair, chimney, and garage door openings.
- Dimensions are in feet-inches-sixteenths.
- All walls shown on diagram are load bearing Unless Noted Otherwise.(UNO)
- All dimensions are from face of stud to face of stud U.N.O.
- Truss spacing is 24" on center U.N.O.
- Customer to insure that all electrical, plumbing, and HVAC runs are clear of truss webs and/or chords.
- THA29 hanger is recommended for all truss to truss connections U.N.O.
- 14-1/2" tail overhangs U.N.O.
- 7 & 10/12 roof pitches.

ROOF TRUSS LAYOUT

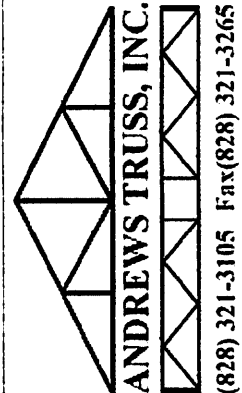
17-1261

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.

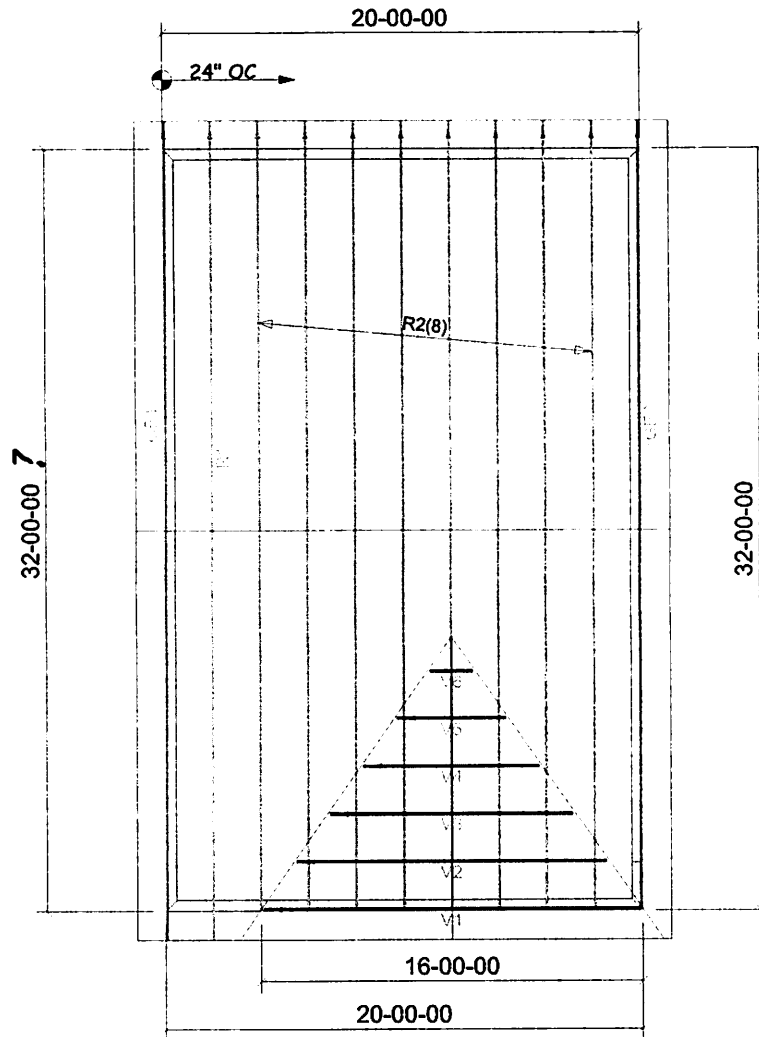
FLOOR AREA: 1240 ROOF AREA: 909.46 RIDGE LINE: 22.42 VALLEY LINES: 34.39 HIP LINES: 0

SHOP DRAWING APPROVAL
THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

REVIEWED BY: _____
DATE: _____



Client:	84 Lumber
Job Name:	Mtn Realty-W.Skyland Cir Lot2
Model:	
Lot #:	Subdivision:
Order #:	Sales Rep:
17-1261	PN
Date:	11/02/17
Designer:	LL



NOTES:

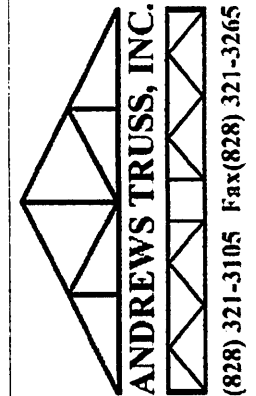
- DO NOT CUT ANY TRUSS!!
This is an engineered component.
Alterations of ANY type WILL void the warranty of this product.
- Customers to verify ALL dimensions, wall heights, stair, chimney, and garage door openings.
- Dimensions are in feet-inches-sixteenths.
- All walls shown on diagram are load bearing Unless Noted Otherwise.(UNO)
- All dimesions are from face of stud to face of stud U.N.O.
- Truss spacing is 24" on center U.N.O.
- Customer to insure that all electrical, plumbing, and HVAC runs are clear of truss webs and/or chords.
- THA29 hanger is recommended for all truss to truss connections U.N.O.
- 14-1/2" tail overhangs U.N.O.
- 7 & 10/12 roof pitches.

ROOF TRUSS LAYOUT 17-1261

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.

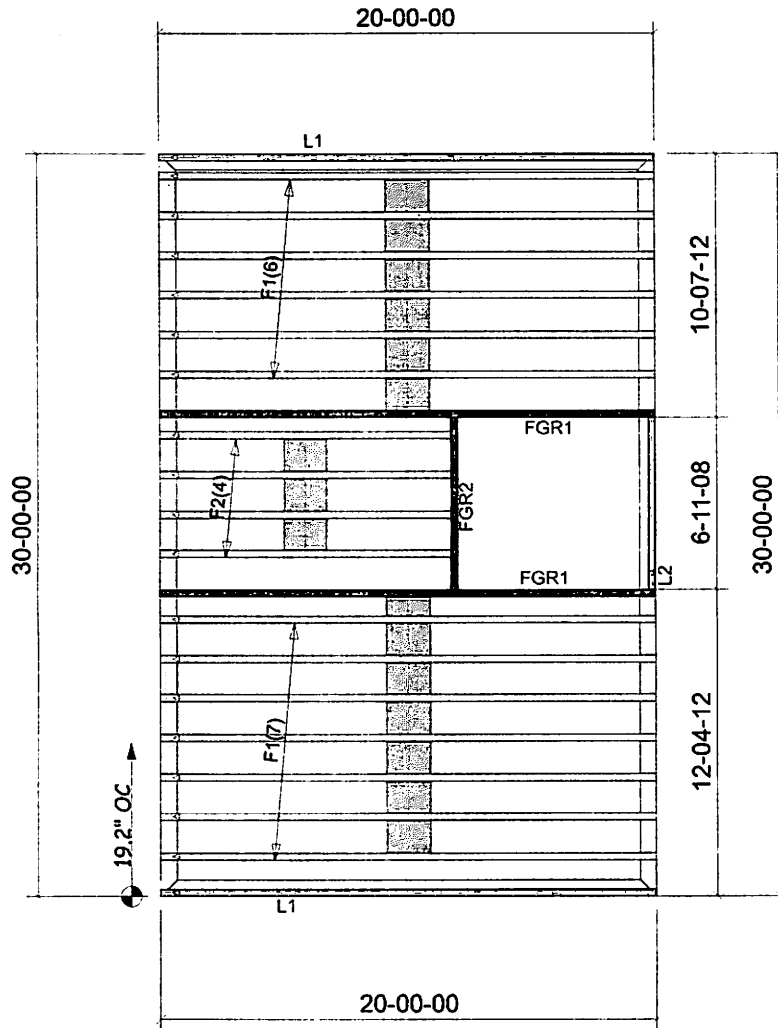
FLOOR AREA: 1240 ROOF AREA: 909.46 RIDGE LINE: 22.42 VALLEY LINES: 34.39 HIP LINES: 0

Client:	84 Lumber
Job Name:	Mtn Ready-W.Skyland Cir Lot2
Model:	
Lot #:	Subdivision:
Order #:	Sales Rep:
17-1261	PN
	Designer:
	LL
	Date:
	11/02/17



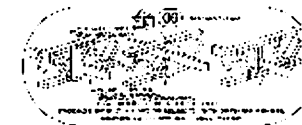
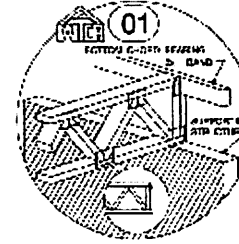
SHOP DRAWING APPROVAL
THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

REVIEWED BY: _____ DATE: _____
APPROVED BY: _____



NOTES:

1. DO NOT CUT ANY TRUSS!!
This is an engineered component.
Alterations of ANY type WILL void the warranty of this product.
2. Customers to verify ALL dimensions, wall heights, stair, chimney, and garage door openings.
3. Dimensions are in feet-inches-sixteenths.
4. All walls shown on diagram are load bearing Unless Noted Otherwise.(UNO)
5. All dimensions are from face of stud to face of stud U.N.O.
6. Truss spacing is 19.2" on center U.N.O.
7. Customer to insure that all electrical, plumbing, and HVAC runs are clear of truss webs and/or chords.
8. 16" deep floor truss system.



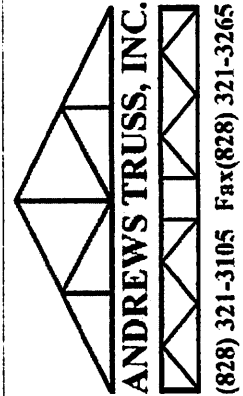
FLOOR TRUSS LAYOUT

17-1261F1

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.

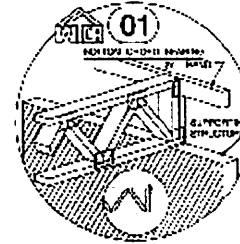
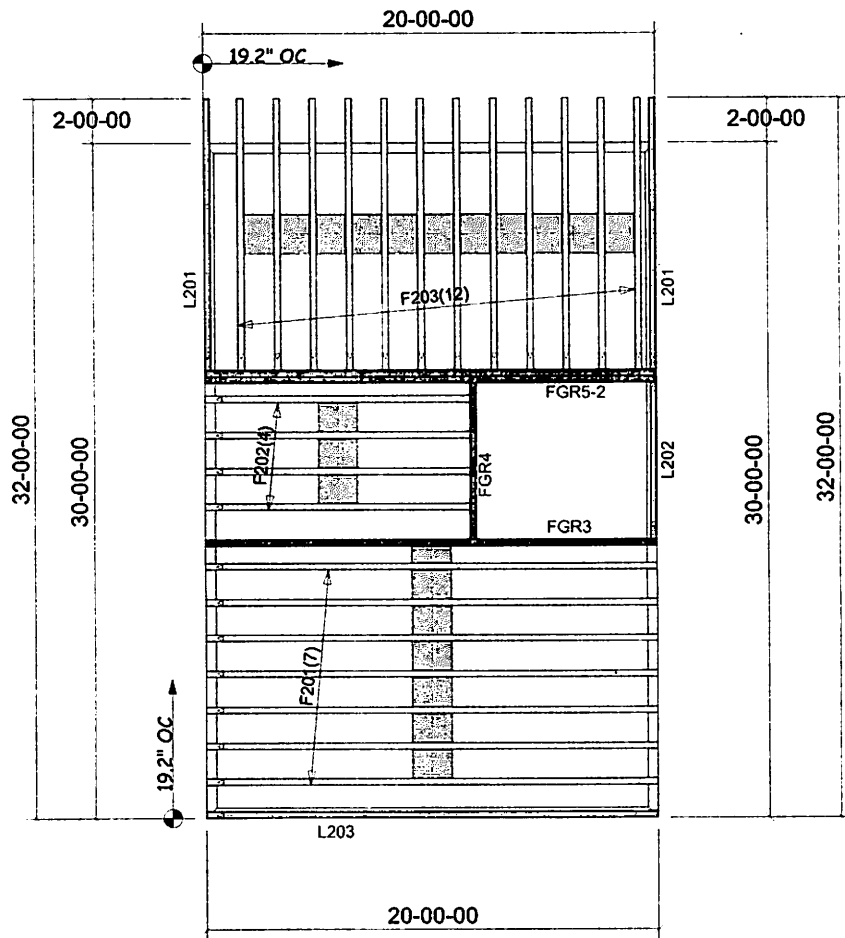
FLOOR AREA: 1240 ROOF AREA: 909.46 RIDGE LINE: 22.42 VALLEY LINES: 34.39 HIP LINES: 0

Client:	84 Lumber		
Job Name:	Mtn Realty-W.Skyland Cir Lot2		
Model:			
Lot #:	Subdivision:		
Order #:	Sales Rep:	Designer:	Date:
17-1261	PN	LL	11/02/17



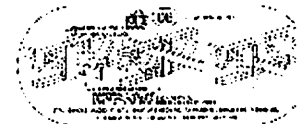
SHOP DRAWING APPROVAL
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REVIEWED BY: _____ DATE: _____
APPROVED BY: _____



NOTES:

1. DO NOT CUT ANY TRUSS!!
This is an engineered component.
Alterations of ANY type WILL void the warranty of this product.
2. Customers to verify ALL dimensions, wall heights, stair, chimney, and garage door openings.
3. Dimensions are in feet-inches-sixteenths.
4. All walls shown on diagram are load bearing Unless Noted Otherwise.(UNO)
5. All dimensions are from face of stud to face of stud U.N.O.
6. Truss spacing is 19.2" on center U.N.O.
7. Customer to insure that all electrical, plumbing, and HVAC runs are clear of truss webs and/or chords.
8. 16" deep floor truss system.



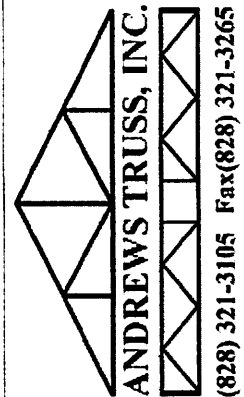
FLOOR TRUSS LAYOUT

17-1261F2

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.

FLOOR AREA: 1240 ROOF AREA: 909.46 RIDGE LINE: 22.42 VALLEY LINES: 34.39 HIP LINES: 0

SHOP DRAWING APPROVAL
THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.



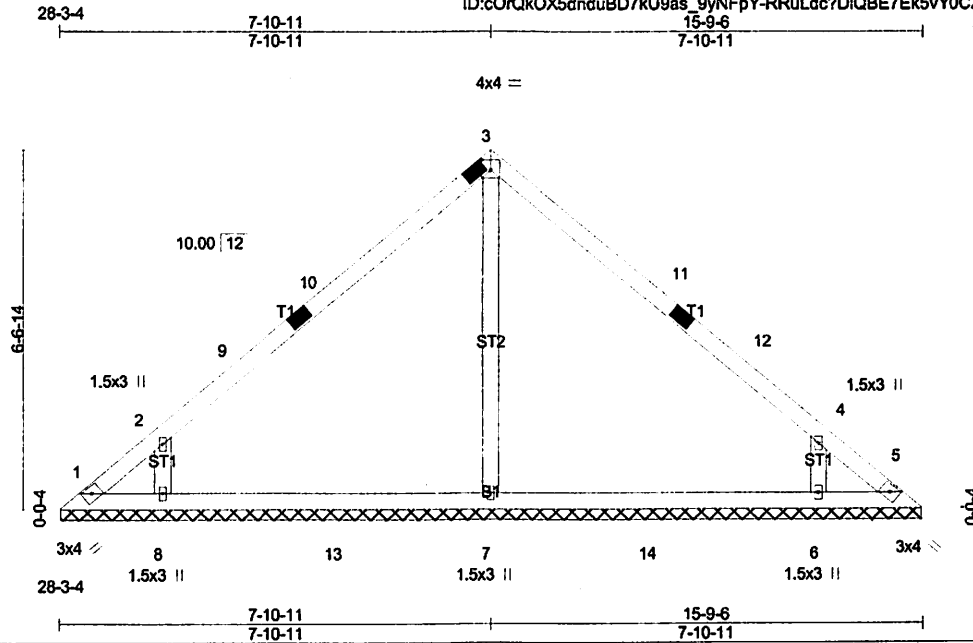
Client:		84 Lumber	
Job Name:		Mtn Realty-W. Skyland Cir Lot2	
Model:			
Lot #:	Subdivision:		
Order #:	Sales Rep:	Designer:	Date:
17-1261	PN	LL	11/02/17

REVIEWED BY: _____
APPROVED BY: _____
DATE: _____

Job	Truss	Truss Type	Qty	Ply	Mtn Realty-W.Skyland Cir Lot2
17-1261	V1	Valley	1	1	Job Reference (optional)

Andrews Truss, Andrews, NC

Run: 8.130 s Sep 1 2017 Print: 8.130 s Sep 1 2017 MiTek Industries, Inc. Thu Nov 2 12:56:03 2017 Page 1
ID:cOrQkOX5dnduBD7kU9as_9yNFpY-RRuLdc?DiQBE7Ek5vY0CZdMZ7kEG7Rhb6PJL3HyNExQ



Scale = 1:40.8

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOL	1.15	TC 0.56	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL	1.15	BC 0.30	Vert(TL)	n/a	-	n/a	999		
TCDL 7.0	Rep Stress Incr	YES	WB 0.20	Horz(TL)	0.00	5	n/a	n/a		
BCLL 0.0	Code IRC2012/TPI2007		Matrix-S							
BCDL 10.0									Weight: 64 lb	FT = 20%

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

BRACING-
TOP CHORD
Installation
Permanent
BOT CHORD

1 Stabilizer(s) at 15-0-0 (max) oc, Except:
9-4-8 oc: 2-3,3-4.
Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. All bearings 15-8-12.
(lb) - Max Horz 1=-103(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-115(LC 23), 5=-100(LC 24),
8=-115(LC 14), 6=-115(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=524(LC 23), 8=568(LC 27), 6=568(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-295/12, 2-8=-486/223, 4-6=-486/223

NOTES-

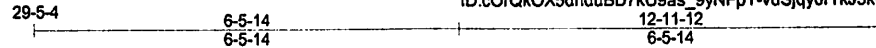
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (directional) and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 7-10-11, Exterior(2) 7-10-11 to 10-10-11 zone; cantilever left and right exposed; 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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 115 lb uplift at joint 1, 100 lb uplift at joint 5, 115 lb uplift at joint 8 and 115 lb uplift at joint 6.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- For Stabilizer bracing, see MiTek Stabilizer Installation Guide. Cross brace at: TC: Inst. 20-0-0.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job 17-1261	Truss V2	Truss Type Valley	Qty 1	Ply 1	Min Realty-W.Skyland Cir Lot2
Job Reference (optional)					

Andrews Truss, Andrews, NC

Run: 8.130 s Sep 1 2017 Print: 8.130 s Sep 1 2017 MiTek Industries, Inc. Thu Nov 2 12:56:04 2017 Page 1
ID:cOrQkOX5dnduBD7kU9as_9yNFpY-vdSjyOrTkJ5kOJHTFYR6rvhX8ZWsvclL32ubjyNExp



4x5 =

Scale = 1:34.0

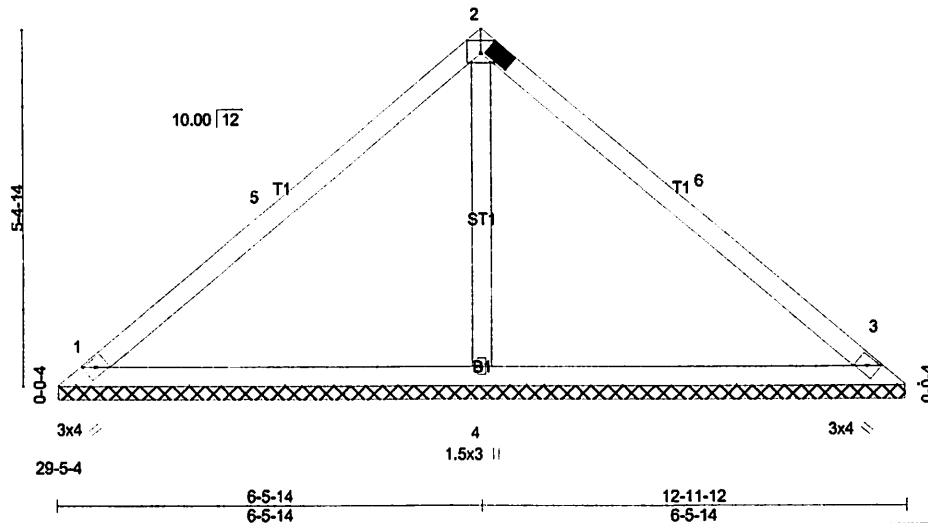


Plate Offsets (X,Y) - [2:0-2-8,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.71	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.36	Vert(TL)	n/a	-	n/a	999		
TCDL 7.0	Lumber DOL 1.15	WB 0.16	Horz(TL)	0.00	3	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-S							
BCDL 10.0	Code IRC2012/TPI2007								
Weight: 50 lb FT = 20%									

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

BRACING-
TOP CHORD
Installation
Permanent
BOT CHORD

1 Stabilizer(s) at 9'-4"-8" (max) oc.
Structural wood sheathing directly applied or 6'-0"-0" oc purlins.
Rigid ceiling directly applied or 10'-0"-0" oc bracing.

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

REACTIONS. (lb/size) 1=256/12-11-3 (min. 0-1-8), 3=256/12-11-3 (min. 0-1-8), 4=465/12-11-3 (min. 0-1-8)

Max Horz 1=-84(LC 12)

Max Uplift 1=-25(LC 14), 3=-25(LC 14)

Max Grav 1=303(LC 2), 3=303(LC 2), 4=538(LC 2)

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

WEBS 2-4=-348/64

NOTES-

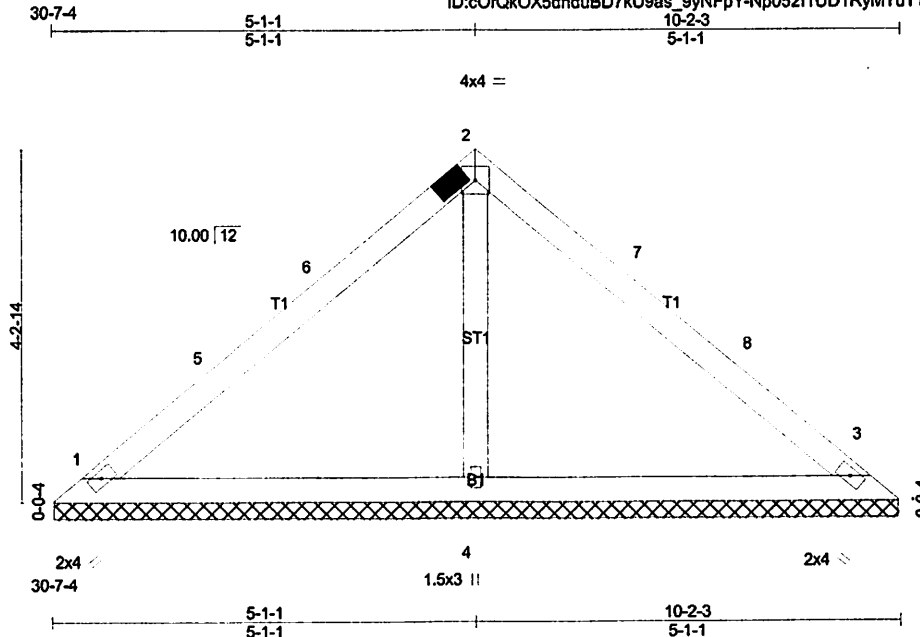
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (directional) and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 6-5-14, Exterior(2) 6-5-14 to 9-5-14 zone; cantilever left and right exposed; 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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
- 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 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-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 25 lb uplift at joint 1 and 25 lb uplift at joint 3.
- 8) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Mtn Realty-W.Skyland Cir Lot2
17-1261	V3	Valley	1	1	Job Reference (optional)

Andrews Truss, Andrews, NC

Run: 8.130 s Sep 1 2017 Print: 8.130 s Sep 1 2017 MiTek Industries, Inc. Thu Nov 2 12:56:05 2017 Page 1
ID:cOrQkOX5nduBD7kU9as_9yNFpY-Np052I1UD1RyMYut1z3ge2RxAYw3bN9uZjoS8AyNExO



Scale = 1:26.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.39	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.22	Vert(LL) n/a - n/a 999		
TCDL 7.0	Lumber DOL 1.15	WB 0.07	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 39 lb	FT = 20%

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

BRACING-
TOP CHORD
Installation
Permanent
BOT CHORD

1 Stabilizer(s) at 9'-4"-8" (max) oc.
Structural wood sheathing directly applied or 6'-0"-0" oc purlins.
Rigid ceiling directly applied or 10'-0"-0" oc bracing.

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

REACTIONS. (lb/size) 1=197/10-1-9 (min. 0-1-8), 3=197/10-1-9 (min. 0-1-8), 4=358/10-1-9 (min. 0-1-8)
Max Horz 1=-65(LC 12)
Max Uplift 1=-20(LC 14), 3=-20(LC 14)
Max Grav 1=234(LC 2), 3=234(LC 2), 4=414(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-268/54

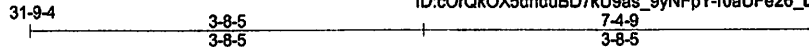
NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (directional) and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-1-1, Exterior(2) 5-1-1 to 8-1-1 zone; cantilever left and right exposed; 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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
- 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 20.0psf on the bottom chord in all areas where a rectangle 3'-6"-0" tall by 2'-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 20 lb uplift at joint 1 and 20 lb uplift at joint 3.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

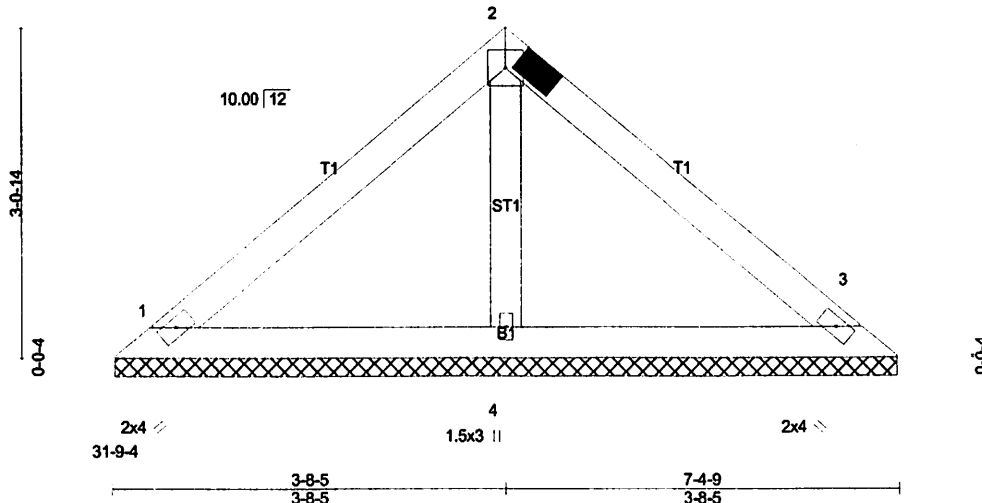
Job 17-1281	Truss V4	Truss Type Valley	Qty 1	Ply 1	Min Realty-W.Skyland Cir Lot2
Andrews Truss, Andrews, NC			Job Reference (optional)		

Run: 8.130 s Sep 1 2017 Print: 8.130 s Sep 1 2017 MiTek Industries, Inc. Thu Nov 2 12:56:06 2017 Page 1
ID: cOrQkOX5dnduBD7kU9as_9yNFPY-r0aUFe26_LZp_hSgagavBG_98ylzKr52oNX7gcyNExN



4x4 =

Scale = 1:20.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.25	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.11	Vert(TL)	n/a	-	n/a		
TCDL 7.0	Lumber DOL 1.15	WB 0.03	Horz(TL)	0.00	3	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2012/TPI2007							
							Weight: 27 lb	FT = 20%

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

BRACING-
TOP CHORD
Installation
Permanent
BOT CHORD

1 Stabilizer(s) at 9-4-8 (max) oc.
Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 1=150/7-4-0 (min. 0-1-8), 3=150/7-4-0 (min. 0-1-8), 4=228/7-4-0 (min. 0-1-8)
Max Horz 1=45(LC 13)
Max Uplift 1=-21(LC 14), 3=-21(LC 14)
Max Grav 1=179(LC 2), 3=179(LC 2), 4=261(LC 2)

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

NOTES-

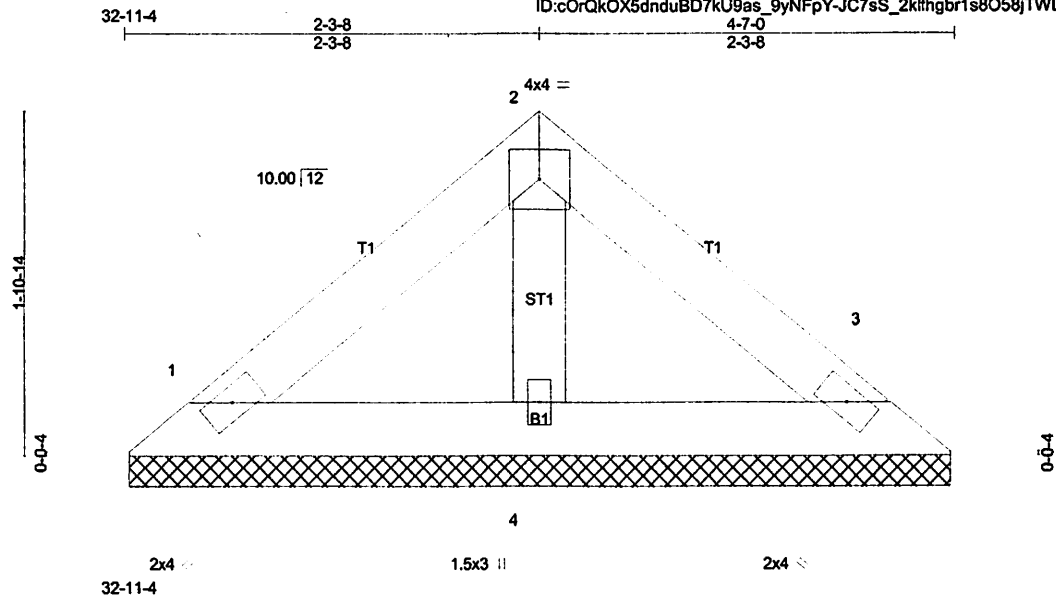
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end 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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 21 lb uplift at joint 3.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Mtn Realty-W.Skyland Cir Lot2
17-1261	V5	Valley	1	1	Job Reference (optional)

Andrews Truss, Andrews, NC

Run: 8.130 s Sep 1 2017 Print: 8.130 s Sep 1 2017 MiTek Industries, Inc. Thu Nov 2 12:56:07 2017 Page 1
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Scale = 1:12.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.04	Vert(TL)	n/a	-	n/a		
TCDL 7.0	Lumber DOL 1.15	WB 0.01	Horz(TL)	0.00	3	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2012/TPI2007							

Weight: 16 lb FT = 20%

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

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 4-7-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 1=86/4-6-6 (min. 0-1-8), 3=86/4-6-6 (min. 0-1-8), 4=131/4-6-6 (min. 0-1-8)
Max Horz 1=-26(LC 12)
Max Uplift 1=-12(LC 14), 3=-12(LC 14)
Max Grav 1=103(LC 2), 3=103(LC 2), 4=150(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; 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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1 and 12 lb uplift at joint 3.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job 17-1261	Truss V6	Truss Type Valley	Qty 1	Ply 1	Mtn Realty-W.Skyland Cir Lot2
Job Reference (optional)					

Andrews Truss, Andrews, NC

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34-1-4 0-10-11 0-10-11 1-9-6 0-10-11

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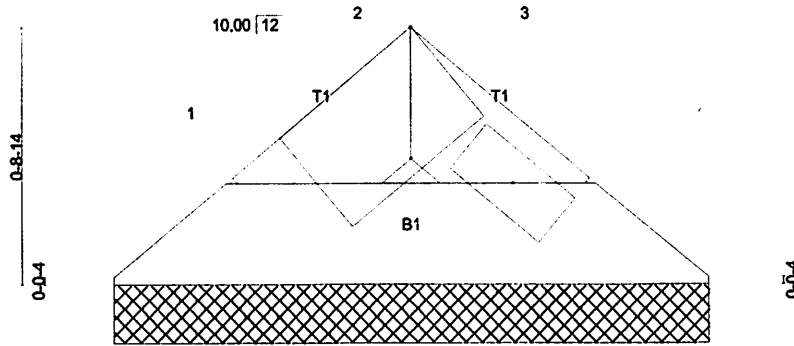


Plate Offsets (X,Y)- [1:0-1-15,0-1-10], [1:0-2-15,Edge], [2:0-1-7,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOL 2-0-0	TC 0.00	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.01	Vert(TL)	n/a	-	n/a	999		
TCDL 7.0	Rep Stress Incr YES	WB 0.00	Horz(TL)	0.00	3	n/a	n/a		
BCLL 0.0	Code IRC2012/TPI2007	Matrix-P						Weight: 5 lb	FT = 20%
BCDL 10.0									

LUMBER-

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

BRACING-

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 1-9-6 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 1=39/1-8-12 (min. 0-1-8), 3=39/1-8-12 (min. 0-1-8)
Max Horz 1=7(LC 13)
Max Uplift 1=-1(LC 14), 3=-1(LC 14)
Max Grav 1=46(LC 2), 3=46(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; 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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1 and 1 lb uplift at joint 3.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job 17-1261	Truss GE1	Truss Type Common Supported Gable	Qty 1	Ply 1	Mtn Realty-W.Skyland Cir Lot2
Job Reference (optional)					
Run: 8.130 s Sep 1 2017 Print: 8.130 s Sep 1 2017 MiTek Industries, Inc. Thu Nov 2 12:56:09 2017 Page 1					
ID: cOrQkOX5dnduBD7kU9as_9yNFpY-GbFctg4_HGxNr3BFGp7cpuchT9LpXA1UULmfHxyNExK					
Andrews Truss, Andrews, NC	28-0-14	16-0-0	32-0-0	33-2-8	1-2-8
1-2-8	16-0-0	16-0-0	16-0-0	16-0-0	1-2-8

Scale = 1:62.8

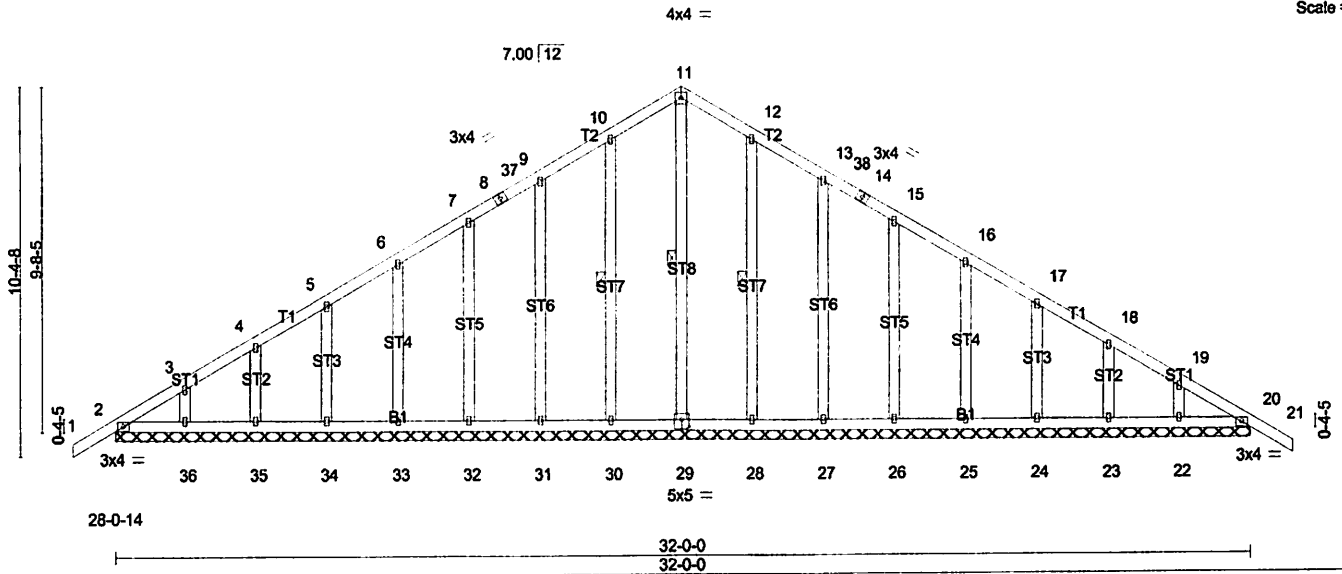


Plate Offsets (X,Y)~ [29:0-2-8,0-3-0]

LOADING (psf)	SPACING-	1-11-4	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOL	1.15	TC 0.12	Vert(LL)	-0.01	21	n/r	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL	1.15	BC 0.04	Vert(TL)	-0.01	21	n/r		
TCDL 7.0	Rep Stress Incr	YES	WB 0.14	Horz(TL)	0.00	20	n/a		
BCLL 0.0 *	Code IRC2012/TPI2007		Matrix-S						
BCDL 10.0									
Weight: 214 lb									FT = 20%

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

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.
WEBS 1 Row at midpt 11-29, 10-30, 12-28

REACTIONS. All bearings 32-0-0.

(lb) - Max Horz 2=152(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 2, 30, 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23, 22, 20

Max Grav All reactions 250 lb or less at joint(s) 2, 29, 30, 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23, 22, 20

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=32ft; eave=2ft; Cat. II; Exp B; enclosed; MWFRS (directional) and C-C Corner(3) -1-2-8 to 2-0-0, Exterior(2) 2-0-0 to 16-0-0, Corner(3) 16-0-0 to 19-2-6 zone; cantilever left and right exposed; 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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
- 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 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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, 30, 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 23, 22, 20.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 17-1261	Truss GE2	Truss Type Common Supported Gable	Qty 1	Ply 1	Mtn Realty-W.Skyland Cir Lot2
Job Reference (optional)					

Andrews Truss, Andrews, NC

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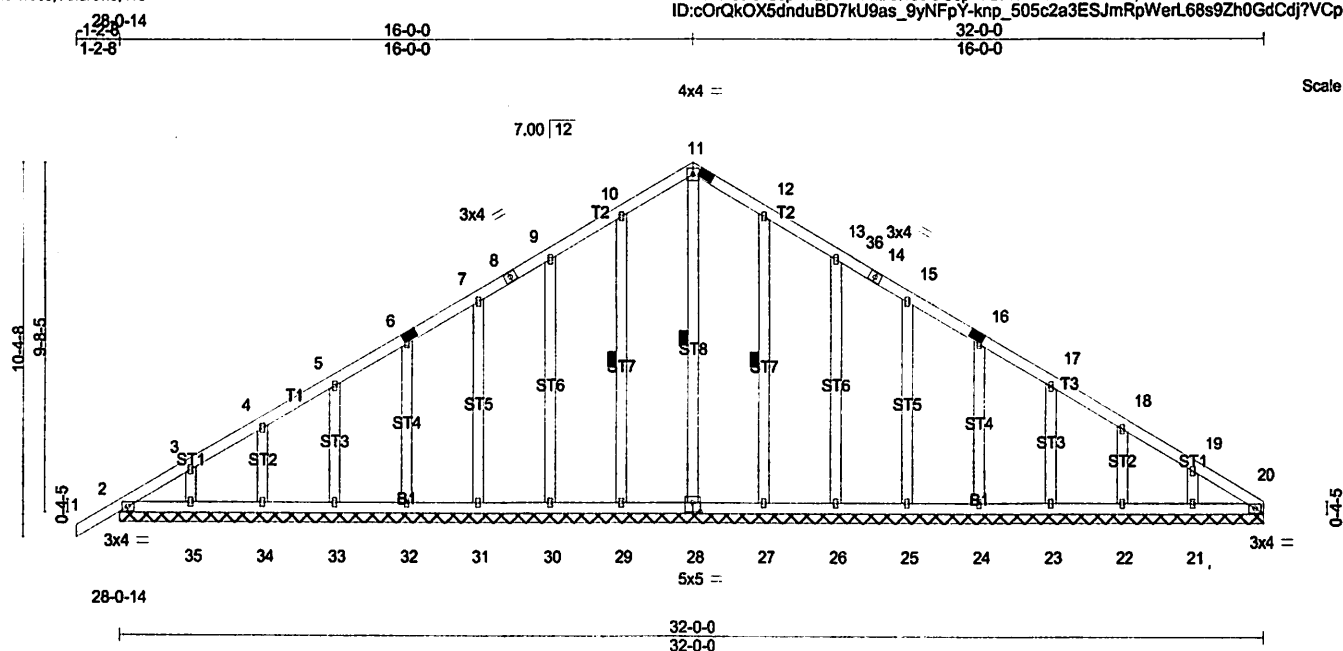


Plate Offsets (X,Y) - [28:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.12	Vert(LL)	-0.00	1	n/r	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.04	Vert(TL)	-0.00	1	n/r		
TCDL 7.0	Lumber DOL 1.15	WB 0.15	Horz(TL)	0.00	20	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2012/TPI2007							
Weight: 212 lb								FT = 20%

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

BRACING-
TOP CHORD
Installation
Permanent
BOT CHORD
WEBS

1 Stabilizer(s) at 9-4-8 (max) oc.
Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.
1 Row at midpt 11-28, 10-29, 12-27

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

REACTIONS. All bearings 32-0-0.
(lb) - Max Horz 2=155(LC 15)
Max Uplift All uplift 100 lb or less at joint(s) 2, 29, 30, 31, 32, 33, 34, 35, 27,
26, 25, 24, 23, 22, 21
Max Grav All reactions 250 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 34, 35,
27, 26, 25, 24, 23, 22, 21, 20

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=32ft; eave=2ft; Cat. II; Exp B; enclosed; MWFRS (directional) and C-C Corner(3) -1-2-8 to 2-0-0, Exterior(2) 2-0-0 to 16-0-0, Corner(3) 16-0-0 to 19-2-6 zone; cantilever left and right exposed; 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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
- 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 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 21.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Mtn Realty-W.Skyland Cir Lot2
17-1261	GE2	Common Supported Gable	1	1	Job Reference (optional)

Andrews Truss, Andrews, NC

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NOTES-

- 15) For Stabilizer bracing, see MiTek Stabilizer Installation Guide. Cross brace at: TC: Inst. 20-0-0.
16) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Mtn Realty-W.Skyland Cir Lot2
17-1261	R1	Common	1	1	Job Reference (optional)

Andrews Truss, Andrews, NC

Run: 8.130 s Sep 1 2017 Print: 8.130 s Sep 1 2017 MiTek Industries, Inc. Thu Nov 2 12:56:12 2017 Page 1
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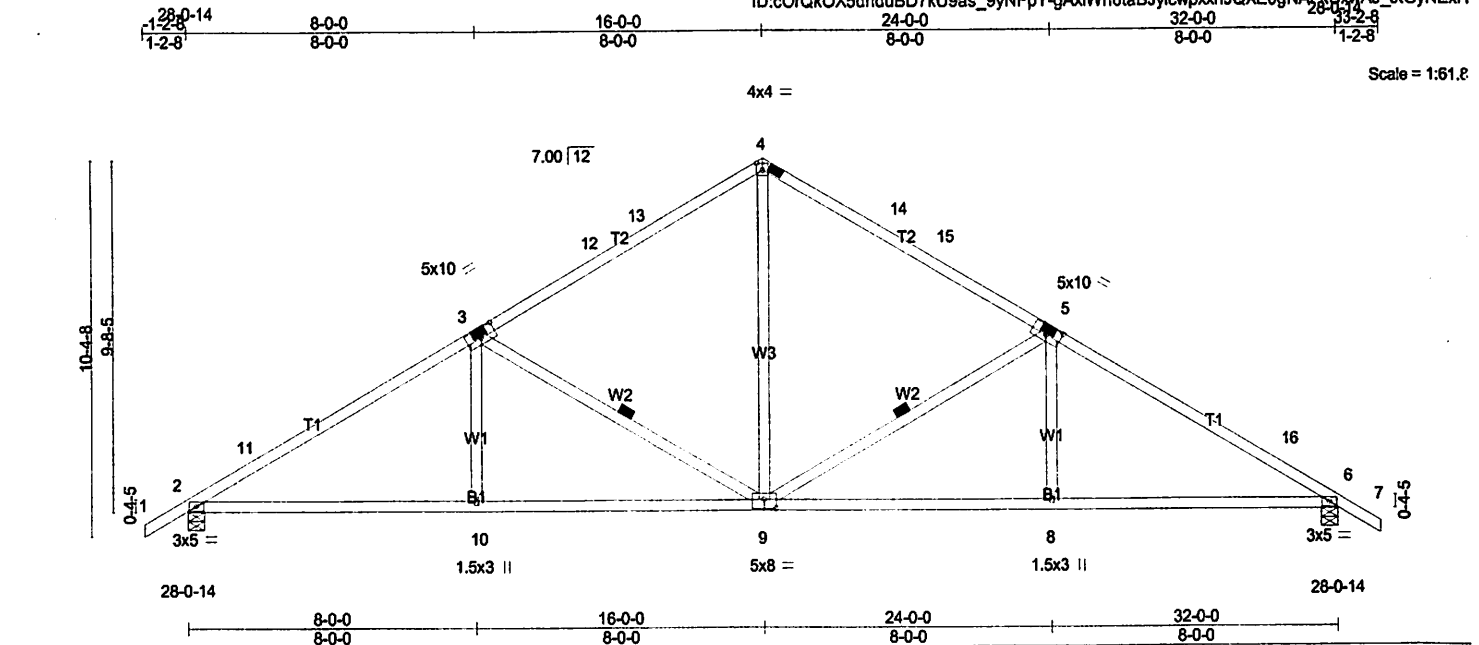


Plate Offsets (X,Y)= [3:0-5-0,0-3-0], [4:0-2-0,0-2-4], [5:0-5-0,0-3-0], [9:0-4-0,0-3-0]									
LOADING (psf)		SPACING	2-0-0	CSI		DEFL.	in (loc)	I/defl	L/d
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.12	9	>999
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.82	Vert(TL)	-0.32	6-8	>999
TCDL	7.0	Rep Stress Incr	YES	WB	0.33	Horz(TL)	0.12	6	n/a
BCLL	0.0	Code IRC2012/TPI2007		Matrix-S		Wind(LL)	0.05	2-10	>999
BCDL	10.0								
					PLATES				
					MT20				
					GRIP				
					244/190				
					Weight: 161 lb FT = 20%				

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD
BOT CHORD 2x4 SP No.2	Installation
WEBS 2x4 SP No.2	Permanent
	BOT CHORD
	WEBS
	1 Stabilizer(s) at 9-4-8 (max) oc.
	Structural wood sheathing directly applied.
	Rigid ceiling directly applied or 10-0-0 oc bracing.
	1 Row at midpt 5-9, 3-9
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1351/0-5-8 (min. 0-1-14), 6=1351/0-5-8 (min. 0-1-14)
Max Horz2=157(LC 15)
Max Uplift2=71(LC 16), 6=71(LC 16)
Max Grav2=1589(LC 2), 6=1589(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-2409/92, 3-11=-2281/118, 3-12=-1635/123, 12-13=-1470/138, 4-13=-1459/153, 4-14=-1459/153, 14-15=-1470/138, 5-15=-1635/123, 5-16=-2281/118, 6-16=-2409/92
BOT CHORD 2-10=-12/1951, 9-10=-13/1948, 8-9=-21/1948, 6-8=-20/1951
WEBS 4-9=-16/964, 5-9=-815/113, 5-8=0/344, 3-9=-815/113, 3-10=0/344

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (directional) and C-C Exterior(2) -1-2-8 to 1-11-14, Interior(1) 1-11-14 to 16-0-0, Exterior(2) 16-0-0 to 19-2-6 zone; cantilever left and right exposed; 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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
 - 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 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 6) Plate(s) at joint(s) 3 and 5 checked for a plus or minus 3 degree rotation about its center.
 - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
 - 10) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) For Stabilizer bracing, see MiTek Stabilizer Installation Guide. Cross brace at: TC: Inst. 20-0-0.
 - 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Mtn Realty-W.Skyland Cir Lot2
17-1261	R2	Common	8	1	Job Reference (optional)

Andrews Truss, Andrews, NC

Run: 8.130 s Sep 1 2017 Print: 8.130 s Sep 1 2017 MiTek Industries, Inc. Thu Nov 2 12:56:13 2017 Page 1
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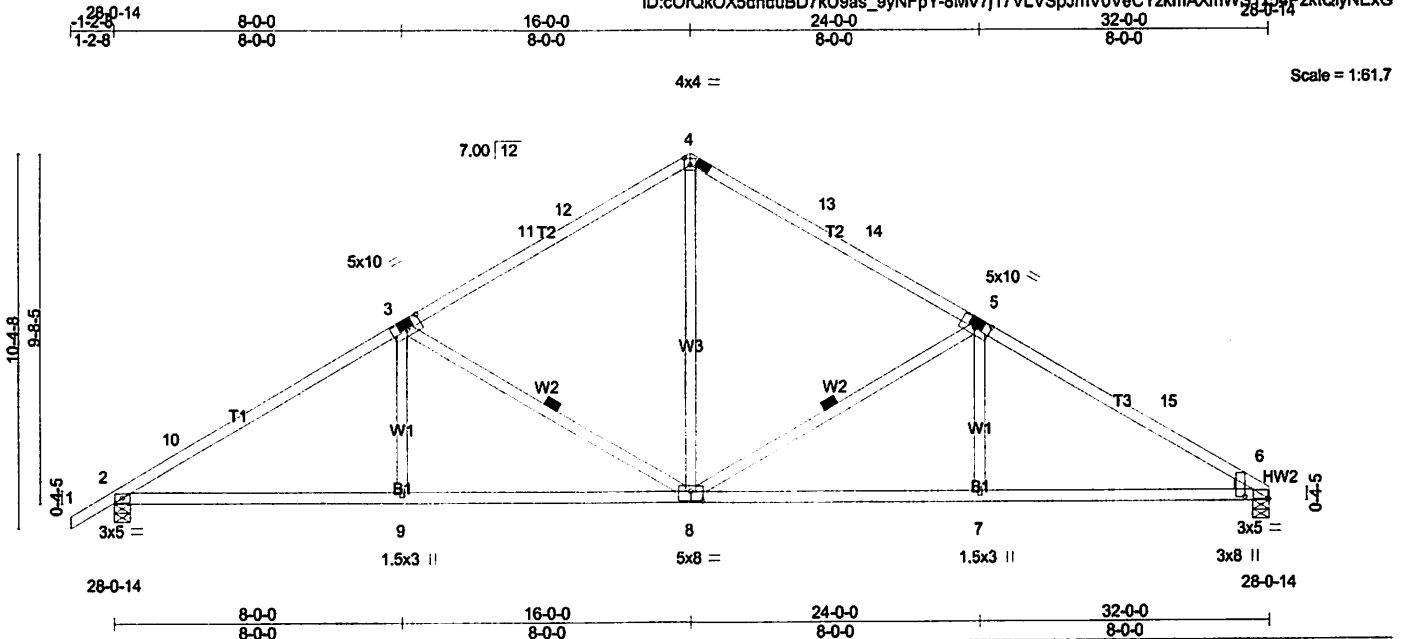


Plate Offsets (X,Y)-- [3:0-5-0,0-3-0], [4:0-2-0,0-2-4], [5:0-5-0,0-3-0], [6:0-0-12,0-8-1], [6:0-0-5,Edge], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.95	Vert(LL)	-0.12	2-9	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.82	Vert(TL)	-0.32	2-9	>999		
TCDL 7.0	Lumber DOL 1.15	WB 0.33	Horz(TL)	0.12	6	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.05	6-7	>999		
BCDL 10.0	Code IRC2012/TPI2007						Weight: 159 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
T3: 2x4 SP No.1D
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE
Right: 2x4 SP No.2

BRACING-
TOP CHORD
Installation
Permanent
BOT CHORD
WEBS
1 Stabilizer(s) at 9'-4"-8" (max) oc.
Structural wood sheathing directly applied.
Rigid ceiling directly applied or 10'-0" oc bracing.
1 Row at midpt 5'-8", 3'-8"

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

REACTIONS. (lb/size) 2=1353/0-5-8 (min. 0-1-14), 6=1263/0-5-8 (min. 0-1-12)
Max Horz 2=155(LC 15)
Max Uplift 2=72(LC 16), 6=33(LC 16)
Max Grav 2=1591(LC 2), 6=1480(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-2414/93, 3-10=-2285/120, 3-11=-1639/136, 11-12=-1474/139, 4-12=-1463/154,
4-13=-1464/158, 13-14=-1474/144, 5-14=-1641/128, 5-15=-2299/129, 6-15=-2391/109
BOT CHORD 2-9=-36/1955, 8-9=-38/1952, 7-8=-40/1964, 6-7=-38/1966
WEBS 4-8=-22/971, 5-8=-830/116, 5-7=0/347, 3-8=-815/114, 3-9=0/344

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (directional) and C-C Exterior(2) 1-2-8 to 1-11-14, Interior(1) 1-11-14 to 16-0-0, Exterior(2) 16-0-0 to 19-2-6 zone; cantilever left and right exposed; 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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1
- 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 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- Plate(s) at joint(s) 3 and 5 checked for a plus or minus 3 degree rotation about its center.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-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, 6.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- For Stabilizer bracing, see MiTek Stabilizer Installation Guide. Cross brace at: TC: Inst. 20-0-0.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job 17-1261	Truss L1	Truss Type Floor Supported Gable	Qty 2	Ply 1	Mtn Realty-W.Skyland Cir Lot2
Job Reference (optional)					

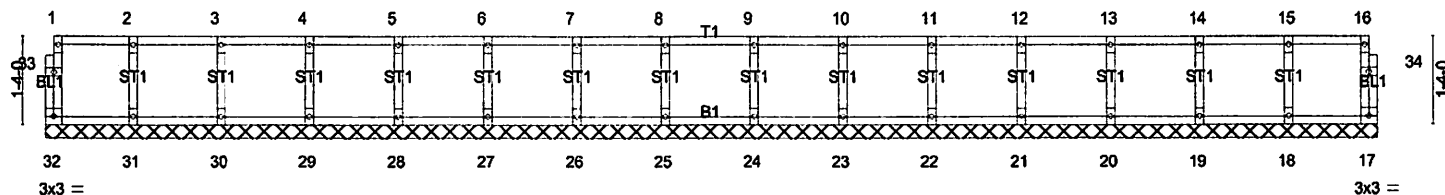
Andrews Truss, Andrews, NC

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0-1-8

0-1-8

Scale = 1:33.4



8-1-2

20-0-0
20-0-0

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(TL)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.01	Horz(TL)	0.00	17	n/a	n/a		
BCDL 5.0	Code IRC2012/TPI2007		Matrix-R							
										Weight: 88 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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.

All bearings 20-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

FORCES.

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S)

Standard

Job	Truss	Truss Type	Qty	Ply	Mtn Realty-W.Skyland Cir Lot2
17-1261	FGR1	Floor Girder	2	1	Job Reference (optional)

Andrews Truss, Andrews, NC

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0-1-8

2-6-0

1-1-0 1-10-0 0-8-4 1-3-14 1-3-14

0-1-8
Scale = 1:34.5

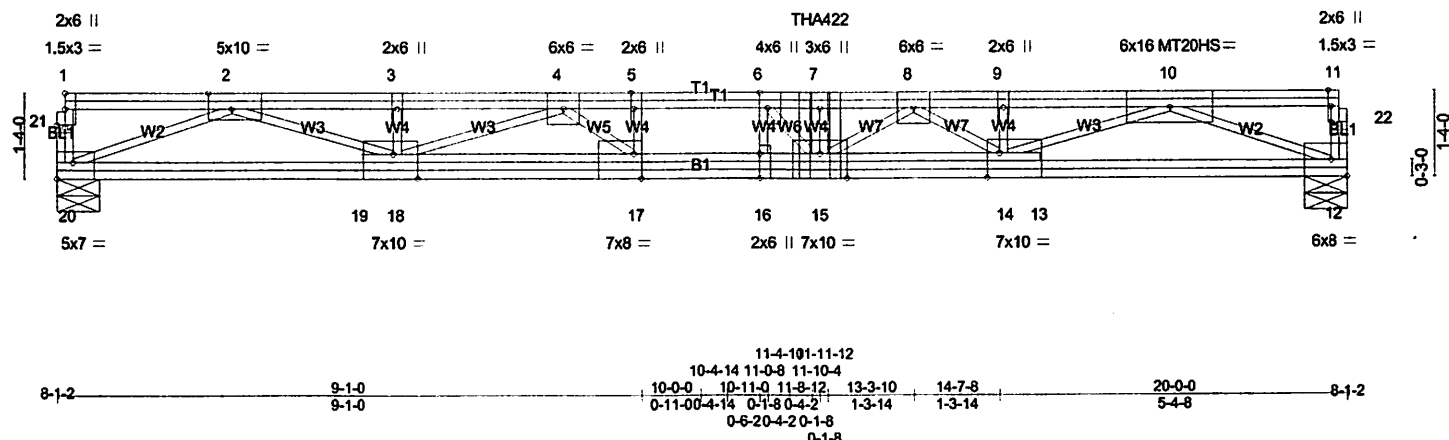


Plate Offsets (X,Y)-- [2:0-4-8,Edge], [5:0-3-0,Edge], [6:0-3-0,Edge], [11:0-3-0,Edge], [14:0-2-4,Edge], [15:0-5-0,Edge], [16:0-4-8,0-0-0], [17:0-1-8,Edge], [18:0-4-8,Edge], [20:Edge,0-3-0], [21:0-1-8,0-0-8], [22:0-1-8,0-0-8]

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.71	Vert(LL)	-0.41	16	>574	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.95	Vert(TL)	-0.65	16	>363	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	NO	WB 0.87	Horz(TL)	0.06	12	n/a	n/a		
BCDL 5.0	Code IRC2012/TPI2007		Matrix-S							
Weight: 172 lb										FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-15 oc purtins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 20=1351/0-8-0 (min. 0-1-8), 12=1579/0-8-0 (min. 0-1-8)

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

TOP CHORD 2-3=-5566/0, 3-4=-5566/0, 4-5=-8532/0, 5-6=-8532/0, 6-7=-9227/0, 7-8=-9198/0, 8-9=-6609/0, 9-10=-6605/0

BOT CHORD 19-20=0/3163, 18-19=0/3162, 17-18=0/7625, 16-17=0/8532, 15-16=0/8532, 14-15=0/8065, 13-14=0/3762, 12-13=0/3763

WEBS 7-15=-1351/0, 5-17=-444/0, 6-16=-906/0, 2-20=-3376/0, 2-18=0/2587, 4-18=-2216/0, 4-17=0/1473, 6-15=0/1441, 10-12=-4016/0, 10-14=0/3068, 8-14=-1787/0, 8-15=0/1489

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 11-10-4 from the left end to connect truss(es) FGR2 (1 ply 2x4 SP) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 12-20=-8, 1-11=-80

Concentrated Loads (lb)

Vert: 7=-1204(F)

Job 17-1261	Truss FGR2	Truss Type Floor Girder	Qty 1	Ply 1	Mtn Realty-W.Skyland Cir Lot2
Andrews Truss, Andrews, NC			Job Reference (optional)		

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2-2-4 1-10-0

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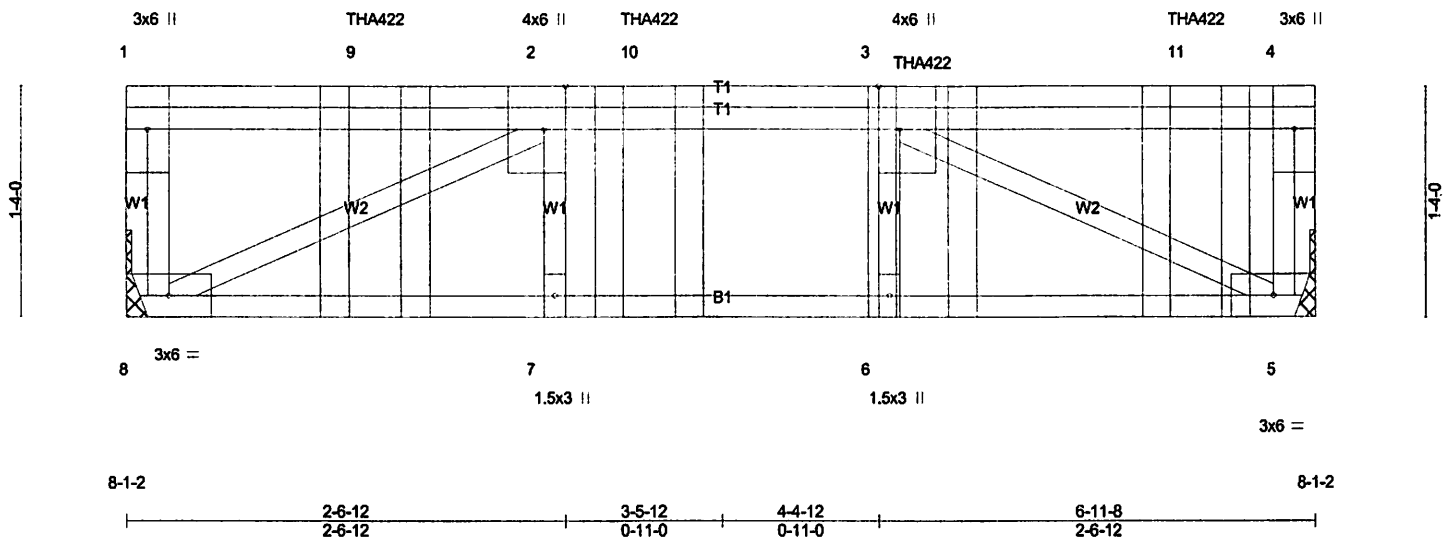


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge]

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.54	Vert(LL)	-0.03	7	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.57	Vert(TL)	-0.05	6-7	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.34	Horz(TL)	0.02	5	n/a	n/a		
BCDL 5.0	Code IRC2012/TPI2007		Matrix-S						Weight: 47 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)

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) 8=1091/Mechanical, 5=1268/Mechanical

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

TOP CHORD 4-5=-405/0, 2-10=-1778/0, 3-10=-1778/0
BOT CHORD 7-8=0/1778, 6-7=0/1778, 5-6=0/1778
WEBS 2-8=-1974/0, 3-5=-1974/0

NOTES-

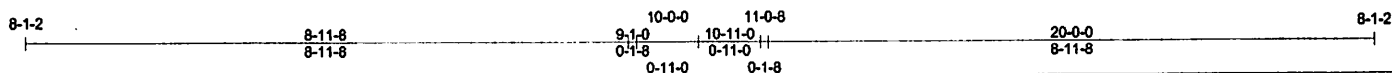
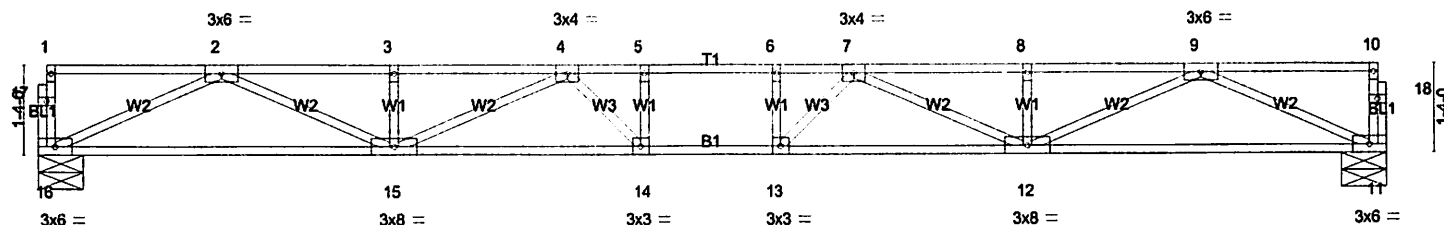
- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-5-7 from the left end to 6-3-0 to connect truss(es) F2 (1 ply 2x4 SP) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-8, 1-4=-80
Concentrated Loads (lb)
Vert: 3=-440(B) 9=-440(B) 10=-440(B) 11=-449(B)

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0-1-8
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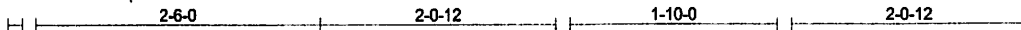


LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.72	Vert(LL) -0.32 13-14	>739	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.97	Vert(TL) -0.50 13-14	>473	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.36	Horz(TL) 0.09 11	n/a	n/a		
BCDL 5.0	Code IRC2012/TPI2007	Matrix-S				Weight: 100 lb	FT = 20%F, 11%E

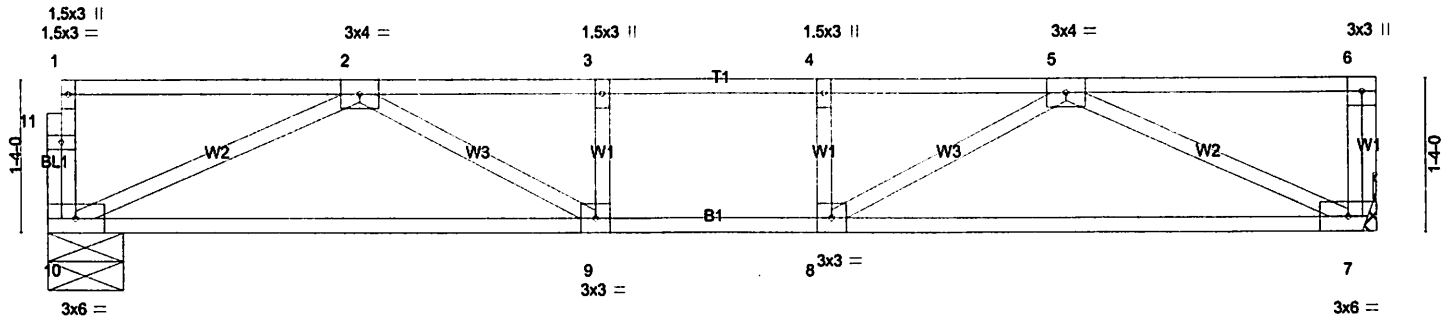
Job 17-1281	Truss F2	Truss Type Floor	Qty 4	Ply 1	Mtn Realty-W.Skyland Cir Lot2
Andrews Truss, Andrews, NC					Job Reference (optional)

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0-1-8



Scale = 1:19.5



8-1-2

8-1-2

4-9-12		4-11-4		5-10-4		6-9-4		6-10-12		11-8-8	
4-9-12		0-1-8		0-11-0		0-11-0		0-1-8		4-9-12	
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.37	Vert(LL)	-0.09	9-10	>999	480	MT20	244/190	
TCDL 10.0	Lumber DOL	1.00	BC 0.45	Vert(TL)	-0.16	9-10	>864	360			
BCLL 0.0	Rep Stress Incr	YES	WB 0.19	Horz(TL)	0.02	7	n/a	n/a			
BCDL 5.0	Code IRC2012/TPI2007		Matrix-S						Weight: 59 lb	FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)

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=499/0-8-0 (min. 0-1-8), 7=504/Mechanical

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

TOP CHORD 2-3=-1185/0, 3-4=-1185/0, 4-5=-1185/0

BOT CHORD 9-10=0/870, 8-9=0/1185, 7-8=0/872

WEBS 2-10=-953/0, 2-9=0/446, 5-7=-959/0, 5-8=0/446

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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Scale = 1:20.0



LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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

REACTIONS. All bearings 10-0-12.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 20 except 14=186(LC 4)
Max Grav All reactions 250 lb or less at joint(s) 20, 19, 18, 17, 16, 15, 14 except 13=447(LC 1)

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

WEBS 8-13=-270/0

NOTES-

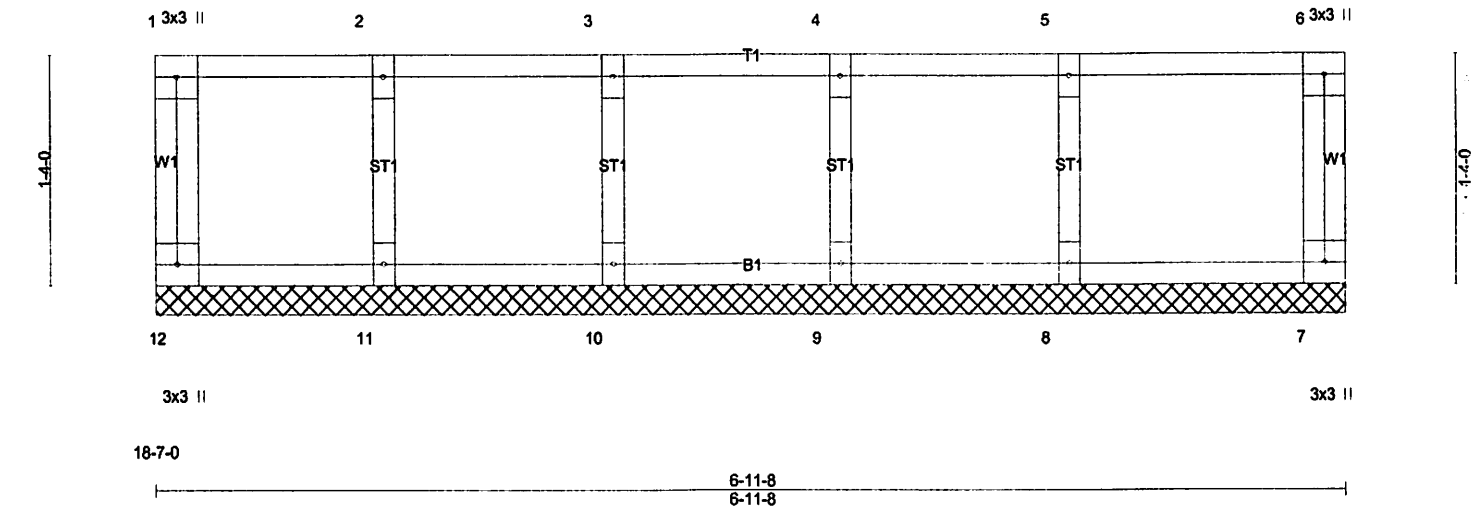
- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 14-0 oc.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20 except (jt=lb)
14=186.
- 6) Non Standard bearing condition. Review required.
- 7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 9) CAUTION. Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Mtn Realty-W.Skyland Cir Lot2
17-1261	L202	Floor Supported Gable	1	1	Job Reference (optional)
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Andrews Truss, Andrews, NC

Scale = 1:13.0



LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.02	Vert(TL)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.02	Horz(TL)	0.00	7	n/a	n/a		
BCDL 5.0	Code IRC2012/TPI2007		Matrix-R						Weight: 34 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.2(flat)
 OTHERS 2x4 SP No.2(flat)

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.

All bearings 6-11-8.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

FORCES.

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S)

Standard

Job	Truss	Truss Type	Qty	Ply	Mtn Realty-W.Skyland Cir Lot2
17-1261	L203	Floor Supported Gable	1	1	Job Reference (optional)

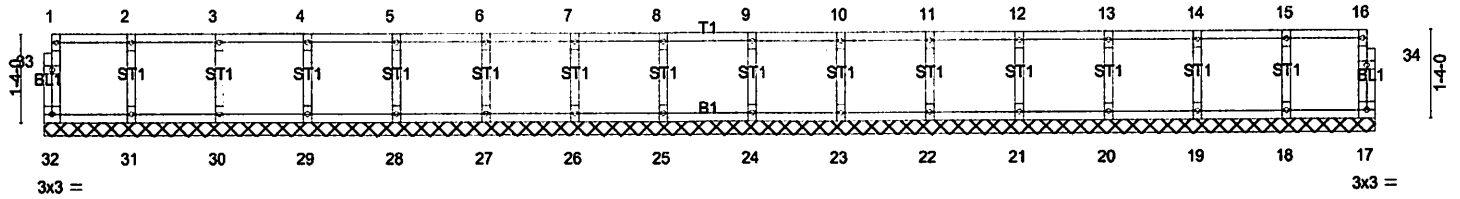
Andrews Truss, Andrews, NC

Run: 8.130 s Sep 1 2017 Print: 8.130 s Sep 1 2017 MiTek Industries, Inc. Thu Nov 2 12:55:29 2017 Page 1
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0-1-8

0-1-8

Scale = 1:33.4



18-7-0		20-0-0						20-0-0	
LOADING (psf)		SPACING- 1-7-3	CSI.	DEFL in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0		Plate Grip DOL 1.00	TC 0.06	Vert(LL) n/a -	n/a	999	MT20	244/190	
TCDL 10.0		Lumber DOL 1.00	BC 0.01	Vert(TL) n/a -	n/a	999			
BCLL 0.0		Rep Stress Incr YES	WB 0.01	Horz(TL) 0.00 17	n/a	n/a			
BCDL 5.0		Code IRC2012/TPI2007	Matrix-R				Weight: 88 lb	FT = 20%F, 11%E	

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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.

All bearings 20-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

FORCES.

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S)

Standard

Job 17-1261	Truss FGR3	Truss Type Floor Girder	Qty 1	Ply 1	Mtn Realty-W.Skyland Cir Lot2
Job Reference (optional)					
Run: 8.130 s Sep 1 2017 Print: 8.130 s Sep 1 2017 Mitek Industries, Inc. Thu Nov 2 12:55:30 2017 Page 1					
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Andrews Truss, Andrews, NC

0-1-8

2-6-0

1-1-0 1-10-0 0-8-4 1-3-14 1-3-14

0-1-8

Scale = 1:34.5

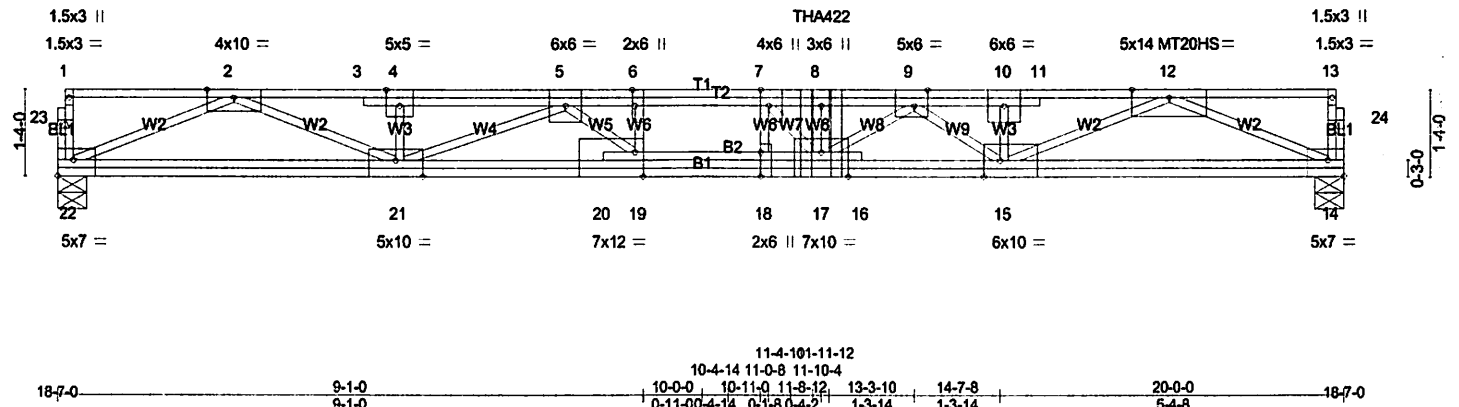


Plate Offsets (X,Y)-- [4:0-2-8,Edge], [6:0-3-0,Edge], [7:0-3-0,Edge], [9:0-2-8,Edge], [14:Edge,0-3-0], [15:0-3-0,Edge], [17:0-5-0,Edge], [18:0-4-8,0-0-0], [19:0-1-8,Edge], [21:0-5-0,Edge], [22:Edge,0-3-0]

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.92	Vert(LL)	-0.40	18	>585	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.98	Vert(TL)	-0.64	18	>370	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	NO	WB 0.75	Horz(TL)	0.06	14	n/a	n/a		
BCDL 5.0	Code IRC2012/TPI2007		Matrix-S							
										Weight: 150 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat) *Except*	TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins, except end verticals.
T2: 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 2x4 SP No.1(flat)	
WEBS 2x4 SP No.2(flat)	

REACTIONS. (lb/size) 22=1279/0-5-8 (min. 0-1-8), 14=1473/0-5-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4806/0, 3-4=-4793/0, 4-5=-4806/0, 5-6=-7879/0, 6-7=-7879/0, 7-8=-8599/0, 8-9=-8576/0, 9-10=-5655/0, 10-11=-5634/0, 11-12=-5655/0
BOT CHORD 21-22=0/2744, 20-21=0/7006, 19-20=0/7004, 18-19=0/7879, 17-18=0/7879, 16-17=0/7335, 15-16=0/7336, 14-15=0/3217
WEBS 8-17=-1119/0, 6-19=-395/0, 7-18=-989/0, 2-22=-2952/0, 2-21=0/2261, 5-21=-2386/0, 5-19=0/1416, 7-17=0/1498, 12-14=-3462/0, 12-15=0/2671, 9-15=-2133/0, 9-17=0/1577

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.
- 6) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 11-10-4 from the left end to connect truss(es) FGR4 (1 ply 2x4 SP) to back face of top chord.
- 7) Fill all nail holes where hanger is in contact with lumber.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-22=-8, 1-13=-80
Concentrated Loads (lb)
Vert: 8=-1027(B)

Job 17-1261	Truss FGR4	Truss Type Floor Girder	Qty 1	Ply 1	Min Realty-W.Skyland Cir Lot2
Andrews Truss, Andrews, NC					Job Reference (optional)

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2-2-4 1-10-0

Scale = 1:13.0

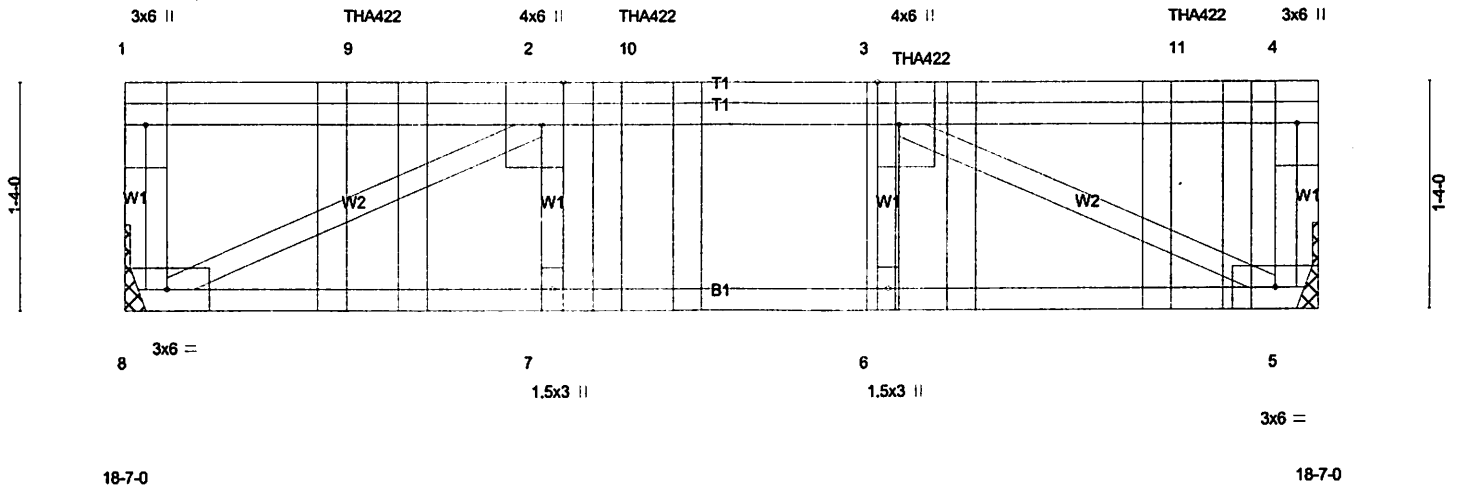


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-3-0,Edge]

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.54	Vert(LL)	-0.03	7	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.57	Vert(TL)	-0.05	6-7	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.34	Horz(TL)	0.02	5	n/a	n/a		
BCDL 5.0	Code IRC2012/TPI2007		Matrix-S						Weight: 47 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)

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) 8=1091/Mechanical, 5=1268/Mechanical

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

TOP CHORD 4-5=-405/0, 2-10=-1778/0, 3-10=-1778/0
BOT CHORD 7-8=0/1778, 6-7=0/1778, 5-6=0/1778
WEBS 2-8=-1974/0, 3-5=-1974/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 1-7-3 oc max. starting at 1-5-7 from the left end to 6-3-0 to connect truss(es) F202 (1 ply 2x4 SP) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

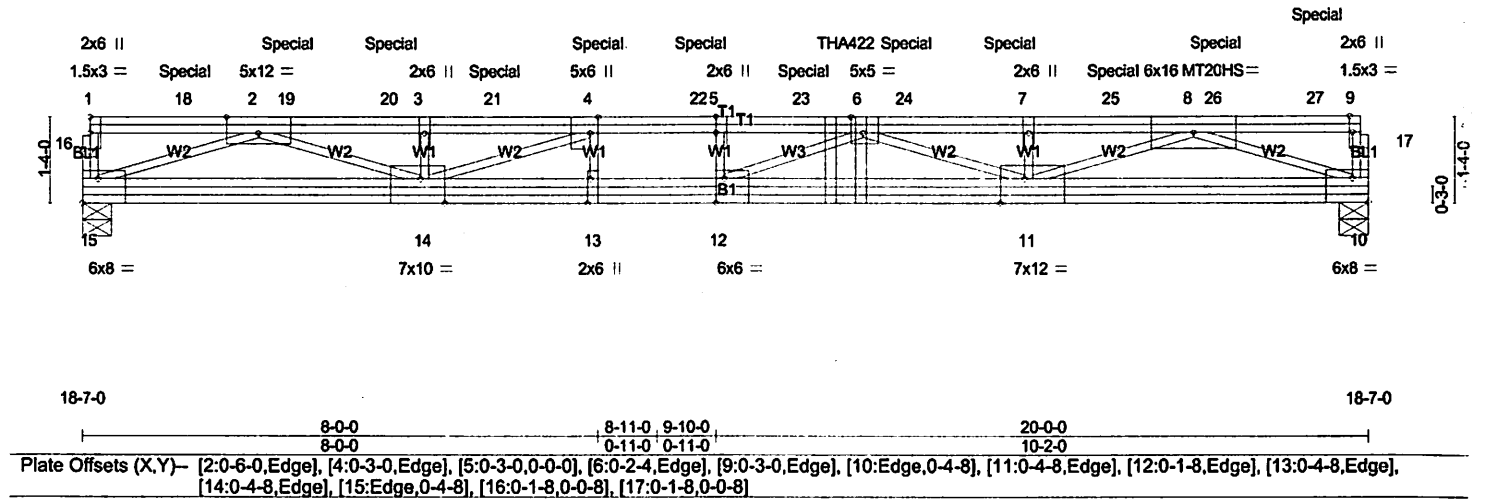
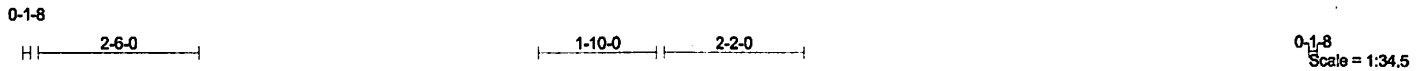
LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-8, 1-4=-80
Concentrated Loads (lb)
Vert: 3=-440(B) 9=-440(B) 10=-440(B) 11=-449(B)

Job 17-1261	Truss FGR5-2	Truss Type Floor Girder	Qty 1	Ply 2	Mtn Realty-W.Skyland Cir Lot2
Job Reference (optional)					

Andrews Truss, Andrews, NC

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LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.61	Vert(LL)	-0.47 11-12	>506	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.86	Vert(TL)	-0.62 11-12	>385	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	NO	WB 0.83	Horz(TL)	0.06 10	n/a	n/a		
BCDL 5.0	Code IRC2012/TPI2007		Matrix-S						
									Weight: 366 lb FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.2(flat)

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

REACTIONS. (lb/size) 15=2902/0-5-8 (min. 0-1-8), 10=3304/0-5-8 (min. 0-1-8)
Max Uplift 15=808(LC 10), 10=885(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-17=-292/147, 9-17=-292/147, 2-19=-11568/2970, 19-20=-11568/2970,
3-20=-11568/2970, 3-21=-11568/2970, 4-21=-11568/2970, 4-22=-15819/3410,
5-22=-15819/3410, 5-23=-15819/3410, 6-23=-15819/3410, 6-24=-13030/2796,
7-24=-13030/2796, 7-25=-13030/2796, 8-25=-13030/2796
BOT CHORD 14-15=-1944/6796, 13-14=-3410/15819, 12-13=-3410/15819, 11-12=-3094/16778,
10-11=-1908/7586
WEBS 8-10=-8120/2038, 2-15=-7281/2083, 8-11=-955/5861, 2-14=-1115/5136, 7-11=-570/299,
3-14=-536/336, 6-11=-4034/395, 4-14=-4646/696, 6-12=-1208/0, 4-13=-21/847

NOTES-

- 1) Fasten trusses together to act as a single unit as per standard industry detail, or loads are to be evenly applied to all plies.
- 2) Unbalanced floor live loads have been considered for this design.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 808 lb uplift at joint 15 and 885 lb uplift at joint 10.
- 5) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 11-10-4 from the left end to connect truss(es) FGR4 (1 ply 2x4 SP) to front face of top chord.
- 8) Fill all nail holes where hanger is in contact with lumber.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 323 lb down and 276 lb up at 1-7-3, 323 lb down and 276 lb up at 3-2-6, 323 lb down and 276 lb up at 4-9-9, 323 lb down and 276 lb up at 6-4-12, 298 lb down and 276 lb up at 7-11-15, 288 lb down and 276 lb up at 9-7-2, 323 lb down and 276 lb up at 11-2-5, 323 lb down and 276 lb up at 12-9-8, 323 lb down and 276 lb up at 14-4-11, 323 lb down and 276 lb up at 15-11-14, and 323 lb down and 276 lb up at 17-7-1, and 325 lb down and 271 lb up at 19-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Mtn Realty-W.Skyland Cir Lot2
17-1261	FGR5-2	Floor Girder	1	2	Job Reference (optional)

Andrews Truss, Andrews, NC

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LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 10-15=-8, 1-9=-80

Concentrated Loads (lb)

Vert: 7=-272(B) 6=-1204(F) 4=-272(B) 18=-272(B) 19=-272(B) 20=-272(B) 21=-272(B) 22=-272(B) 23=-272(B) 24=-272(B) 25=-272(B) 26=-272(B) 27=-279(B)

Job	Truss	Truss Type	Qty	Ply	Mtn Realty-W.Skyland Cir Lot2
17-1261	F203	Floor	12	1	

Andrews Truss, Andrews, NC

Run: 8.130 s Sep 1 2017 Print: 8.130 s Sep 1 2017 MITek Industries, Inc. Thu Nov 2 12:55:35 2017 Page 1
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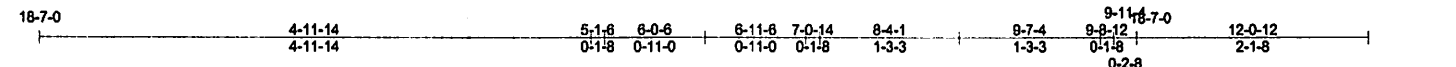
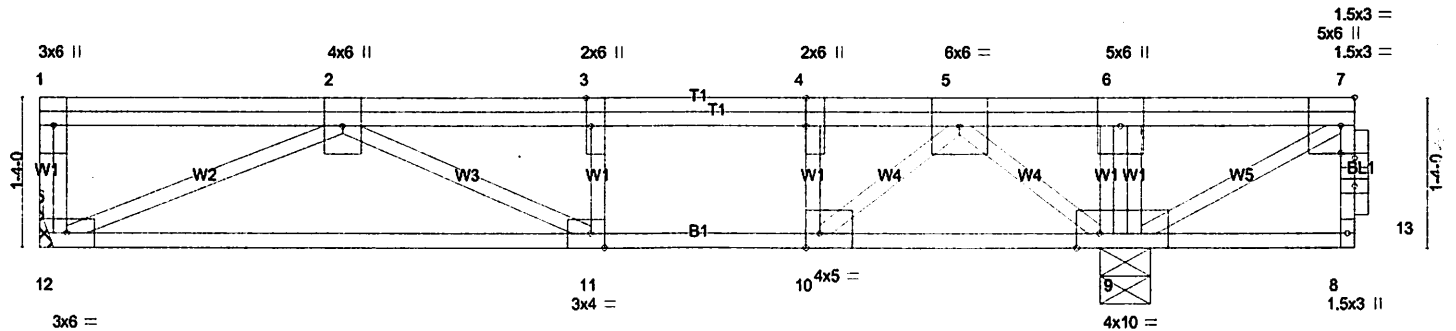
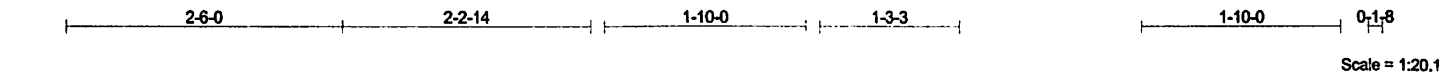


Plate Offsets (X,Y)-- [3:0-3-0,Edge], [4:0-3-0,0-0-0], [7:0-3-0,Edge], [7:0-1-8,0-0-8], [9:0-2-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]									
LOADING (psf)		SPACING- 1-7-3		CSI.		DEFL in (loc) l/defl L/d		PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.08 11-12 >999	480	MT20 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.56	Vert(TL)	-0.18 11-12 >632	360	
BCLL	0.0	Rep Stress Incr	NO	WB	0.48	Horz(TL)	-0.02 9 n/a	n/a	
BCDL	5.0	Code IRC2012/TPI2007		Matrix-S					
Weight: 81 lb									FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)

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. Except: 10-0-0 oc bracing: 8-9.

REACTIONS. (lb/size) 12=97/Mechanical, 9=2341/0-5-8 (min. 0-1-8)
Max Uplift 12=-212(LC 4)
Max Grav 12=336(LC 3), 9=2341(LC 1)

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

TOP CHORD 2-3=-398/1415, 3-4=-398/1415, 4-5=-398/1415, 5-6=0/2672, 6-7=0/2678
BOT CHORD 11-12=-513/549, 10-11=-1415/398, 9-10=-2262/0
WEBS 3-11=0/449, 4-10=-915/0, 6-9=-360/0, 2-12=-599/560, 2-11=-1023/0, 7-9=-3027/0, 5-9=-924/0, 5-10=0/1513

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 12.
- 4) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-12=-8, 1-7=-80
Concentrated Loads (lb)
Vert: 7=-1400