

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: CoastRoof130  
McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Apex,NC.

Pages or sheets covered by this seal: I44695810 thru I44695869

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



February 5, 2021

Johnson, Andrew

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job COASTROOF130	Truss A01	Truss Type COMMON	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695810
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:27 2021 Page 1  
ID:jqCdRHbllruLU7315XDfb5zc7xm-7eXcA7zQeD63rgvXL\_pPrfJL?ySvCVFRCAW0r8zoC?U

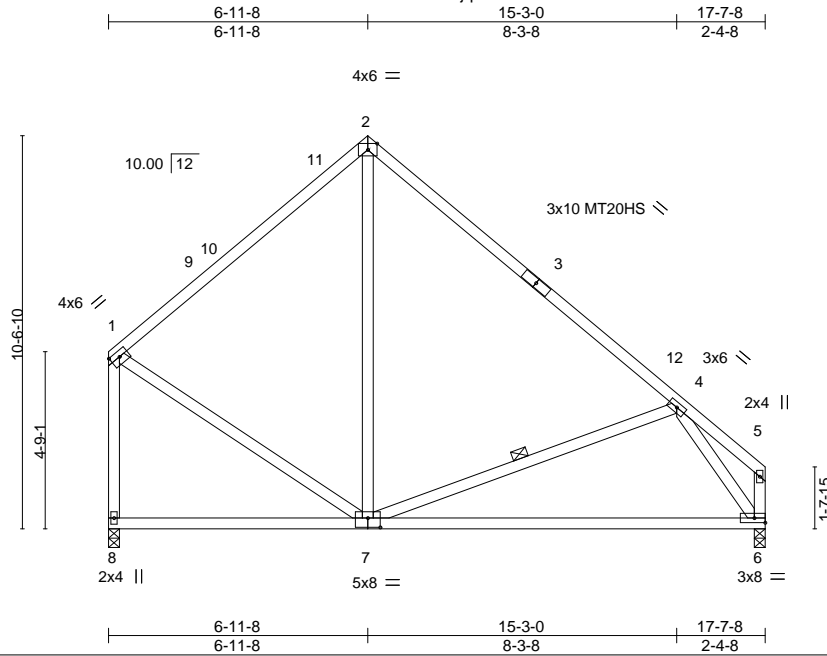


Plate Offsets (X,Y)--	[1:0-3-0,0-1-12], [2:0-3-0,Edge], [7:0-4-0,0-3-0]
-----------------------	---

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.87	Vert(LL)	-0.30	6-7	>694	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.60	6-7	>345	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	-0.01	7-8	>999		
								Weight: 114 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 1-8,5-6: 2x4 SP No.2	WEBS 1 Row at midpt 4-7

**REACTIONS.** (size) 8=0-3-8, 6=0-3-8  
 Max Horz 8=-315(LC 8)  
 Max Uplift 8=-30(LC 13), 6=-32(LC 13)  
 Max Grav 8=693(LC 1), 6=693(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-8=-648/149, 1-2=-534/156, 2-4=-583/168  
 BOT CHORD 7-8=-248/290, 6-7=-142/488  
 WEBS 2-7=-13/271, 1-7=-51/404, 4-7=-315/282, 4-6=-790/336

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-11-8, Exterior(2) 6-11-8 to 11-2-7, Interior(1) 11-2-7 to 17-5-12 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) All plates are MT20 plates unless otherwise indicated.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* 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.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.



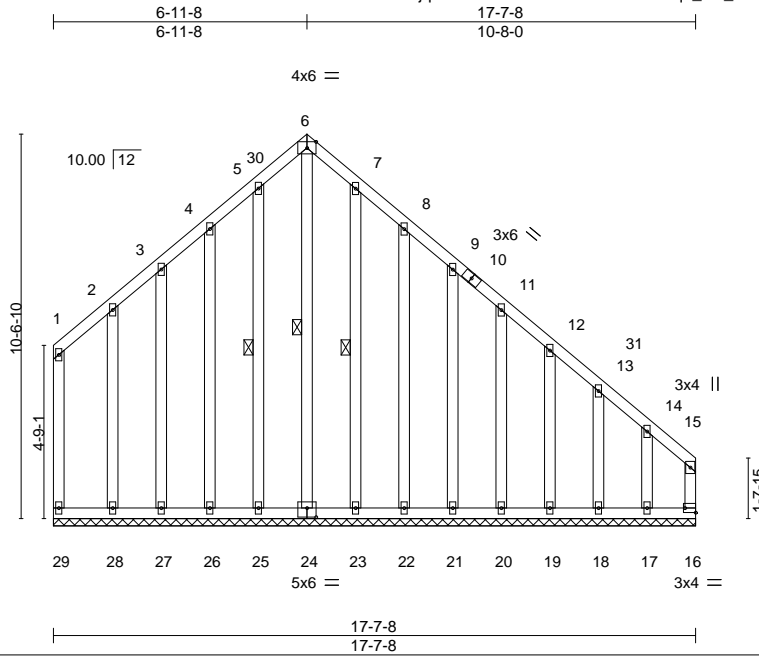
Job COASTROOF130	Truss A01G	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695811
---------------------	---------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:28 2021 Page 1

ID:jqCdRHblrruLU73I5XDFb5zc7xm-bq5\_NT\_2PWEwTqUjvhKeNsrfUMxpx\_aRqFZOazoC?T



Scale = 1:63.2

Plate Offsets (X,Y)--	[6:0-3-0,Edge], [16:Edge,0-1-8], [24:0-3-0,0-3-0]
-----------------------	---

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.01	16	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 185 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-24, 5-25, 7-23
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 17-7-8.  
 (lb) - Max Horz 29=-315(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 29, 25, 26, 27, 28, 23, 22, 21, 20, 19, 18 except 16=-452(LC 11), 24=-125(LC 10), 17=-463(LC 8)  
 Max Grav All reactions 250 lb or less at joint(s) 29, 24, 25, 26, 27, 28, 23, 22, 21, 20, 19, 18 except 16=559(LC 8), 17=473(LC 11)

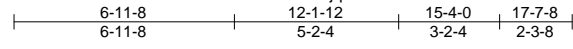
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 4-5=-270/287, 5-6=-285/310, 6-7=-285/314, 7-8=-270/301, 12-13=-265/239, 13-14=-263/228, 14-15=-402/346, 15-16=-348/284  
 BOT CHORD 28-29=-234/264, 27-28=-234/264, 26-27=-234/264, 25-26=-234/264, 24-25=-234/264, 23-24=-234/264, 22-23=-234/264, 21-22=-234/264, 20-21=-234/264, 19-20=-234/264, 18-19=-234/264, 17-18=-234/264, 16-17=-234/264  
 WEBS 6-24=-324/254

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 2-11-8, Interior(1) 2-11-8 to 6-11-8, Exterior(2) 6-11-8 to 10-11-8, Interior(1) 10-11-8 to 17-5-12 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.
  - 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 1-4-0 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) 29, 25, 26, 27, 28, 23, 22, 21, 20, 19, 18 except (jt=lb) 16=452, 24=125, 17=463.



Job COASTROOF130	Truss A01T	Truss Type COMMON	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695812
---------------------	---------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:29 2021 Page 1  
 ID:jqCdRHblrruLU73I5XDfb5zc7xm-30fMbp?gAqMn5\_3vTPstw4OhnlGvgO9kgU?6w1zoC?S



7x14 MT20HS ||

Scale = 1:72.8

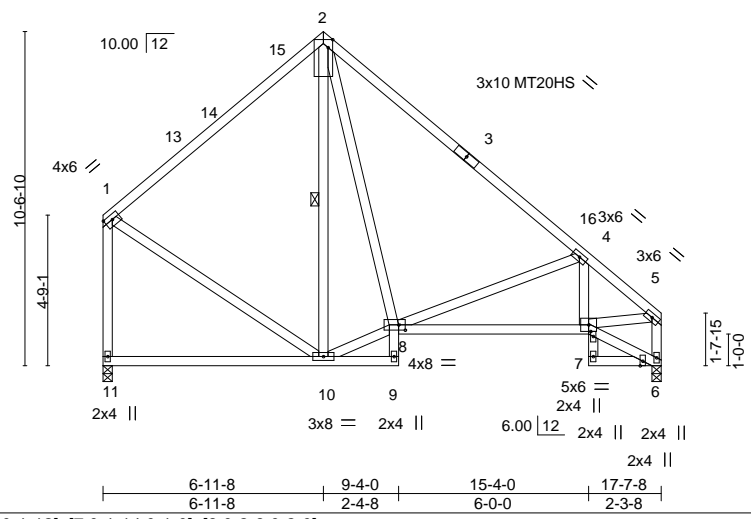


Plate Offsets (X,Y)--	[1:0-3-0,0-1-12], [2:0-3-0,0-1-12], [7:0-1-14,0-1-0], [8:0-2-8,0-2-0]
-----------------------	---

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.06	10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.12	10-11	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.37	Horz(CT) 0.03	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.01	7-8	>999	240		
							Weight: 134 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 1-11,5-6: 2x4 SP No.2	WEBS 1 Row at midpt 2-10
OTHERS 2x4 SP No.3	

**REACTIONS.** (size) 11=0-3-8, 6=0-3-8  
 Max Horz 11=-316(LC 8)  
 Max Uplift 11=-30(LC 13), 6=-32(LC 13)  
 Max Grav 11=693(LC 1), 6=693(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-11=-631/159, 1-2=-522/164, 2-4=-674/184, 4-5=-886/163, 5-6=-669/98  
 BOT CHORD 10-11=-245/293, 7-8=-174/733  
 WEBS 2-8=-24/346, 1-10=-61/387, 8-10=-18/452, 4-8=-470/288, 5-7=-177/776

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-11-8, Exterior(2) 6-11-8 to 11-2-7, Interior(1) 11-2-7 to 17-5-12 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) All plates are MT20 plates unless otherwise indicated.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* 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.
  - 6) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 6.



Job COASTROOF130	Truss A02	Truss Type COMMON	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695813
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:30 2021 Page 1  
ID:jqCdRHblrrLU73f5Xdfb5zc7xm-XDDko90lx8Uei8e516N6THxuw9VzPoNtu8kgSTzoC?R



5x14 MT20HS ||

Scale = 1:68.9

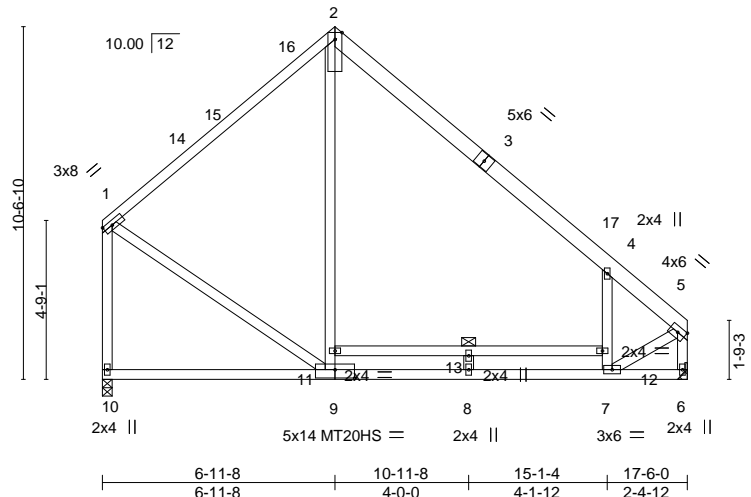


Plate Offsets (X,Y)-- [9:0-7-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.81	Vert(LL) -0.29 7-8 >704 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Vert(CT) -0.42 7-8 >490 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.29 7-8 >722 240	Weight: 127 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-2: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 6-9: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 1-10,5-6,11-12: 2x4 SP No.2	WEBS 1 Row at midpt 11-12

**REACTIONS.** (size) 10=0-3-8, 6=Mechanical  
 Max Horz 10=-315(LC 10)  
 Max Uplift 10=-29(LC 13), 6=-31(LC 13)  
 Max Grav 10=740(LC 20), 6=776(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-10=-715/168, 1-2=-594/169, 2-4=-587/151, 4-5=-656/9, 5-6=-762/7  
 BOT CHORD 9-10=-249/294, 8-9=-34/528, 7-8=-34/528  
 WEBS 2-11=0/337, 1-9=-69/503, 5-7=-57/513

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-11-8, Exterior(2) 6-11-8 to 11-2-7, Interior(1) 11-2-7 to 17-4-4 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
  - 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 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.
  - 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) 10, 6.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-60, 2-5=-60, 6-10=-20
- Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-50, 2-5=-50, 6-10=-20, 11-12=-30



Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695813
COASTROOF130	A02	COMMON	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:30 2021 Page 2  
ID:jqCdRHblruLU73f5XDfb5zc7xm-XDDko90lx8Uei8e516N6THxuw9VzPoNtu8kgSTzoC?R

**LOAD CASE(S)** Standard

- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-5=-20, 6-10=-40, 11-12=-40
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-5=-20, 6-10=-20, 11-12=-40
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-61, 2-5=-42, 6-10=-20, 11-12=-30  
Horz: 1-10=21, 1-2=11, 2-5=8, 5-6=7
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-42, 2-5=-61, 6-10=-20, 11-12=-30  
Horz: 1-10=-7, 1-2=-8, 2-5=-11, 5-6=-21
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-16=-29, 2-16=-38, 2-5=-46, 6-10=-20, 11-12=-30  
Horz: 1-10=19, 1-16=-21, 2-16=-12, 2-5=4, 5-6=3
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=-46, 2-3=-38, 3-5=-29, 6-10=-20, 11-12=-30  
Horz: 1-10=-3, 1-2=-4, 2-3=12, 3-5=21, 5-6=-19
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-50, 2-5=-20, 6-10=-20, 11-12=-30
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-20, 2-5=-50, 6-10=-20, 11-12=-30

**WARNING** - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601  
**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

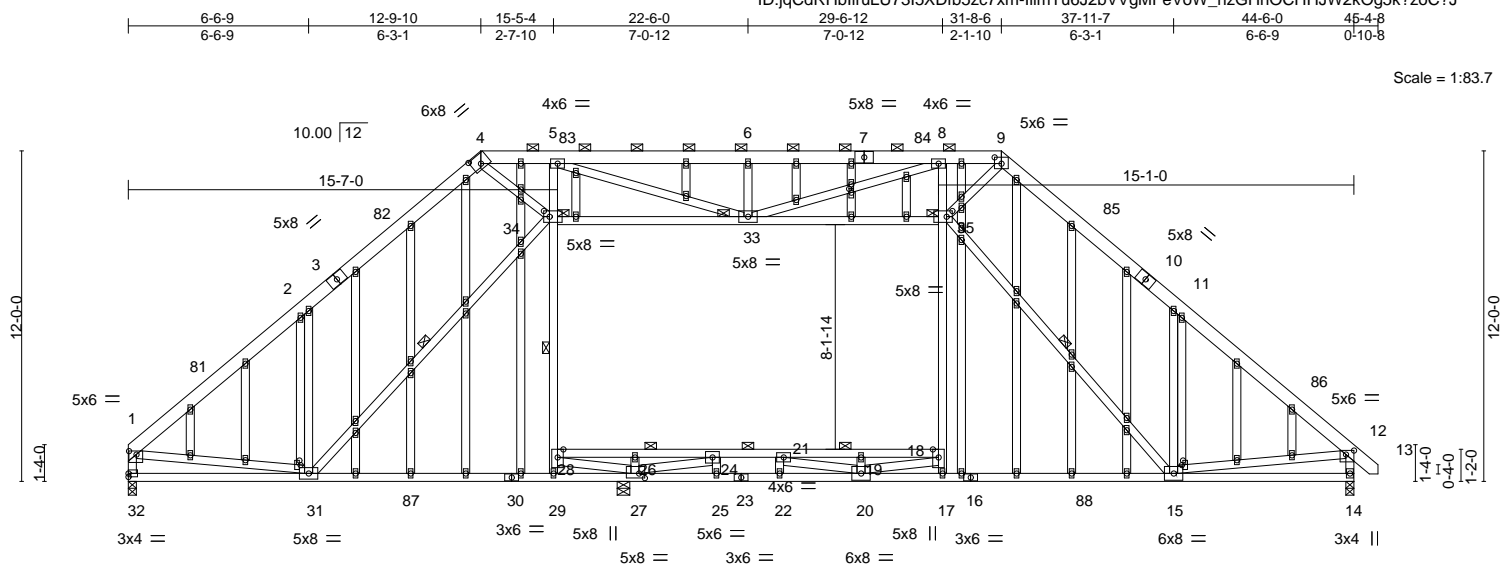


818 Soundside Road  
Edenton, NC 27932



Job COASTROOF130	Truss B01G	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695815
---------------------	---------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:38 2021 Page 1  
 ID:jqCdRHblruLU73I5XDFb5zc7xm-lilmTu6J2bVvgMFeVoW\_nzGHnOCHHJW2kOg5k?zoC?J



Scale = 1:83.7

Plate Offsets (X, Y)--	[1:0-3-4,0-1-8], [4:0-4-0,0-3-12], [9:0-3-0,0-2-12], [12:0-3-8,0-1-12], [15:0-2-0,0-0-8], [27:0-2-8,0-2-0], [31:0-2-0,0-0-8], [34:0-2-8,0-2-8], [35:0-2-8,0-2-8], [61:0-1-10,0-1-0]
------------------------	---

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.58	Vert(LL) -0.30	15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.91	Vert(CT) -0.58	15-17	>541	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.94	Horz(CT) 0.07	14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL) 0.12	15-17	>999	240		
								Weight: 551 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-2 max.): 4-9.
BOT CHORD 2x4 SP No.1 *Except* 18-28: 2x4 SP No.2, 16-23,23-30: 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 3-11-0 oc bracing: 18-28
WEBS 2x4 SP No.3 *Except* 5-29,8-17,34-35,31-34,15-35,1-32,12-14: 2x4 SP No.2	WEBS 1 Row at midpt 28-34, 31-34, 15-35
OTHERS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 33, 34, 35

**REACTIONS.** (size) 32=0-3-8, 27=0-5-8, 14=0-3-8  
 Max Horz 32=-317(LC 8)  
 Max Grav 32=1814(LC 2), 27=1168(LC 26), 14=2074(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2195/85, 2-4=-2052/325, 4-5=-2483/430, 5-6=-3558/519, 6-8=-3558/519, 8-9=-3355/281, 9-11=-2639/247, 11-12=-2565/29, 1-32=-1748/91, 12-14=-2036/82  
 BOT CHORD 31-32=-268/469, 29-31=0/1500, 27-29=-18/1225, 25-27=0/2526, 22-25=0/2526, 20-22=0/2526, 17-20=0/1723, 15-17=0/1563, 26-28=-146/1450, 24-26=-145/1440, 21-24=-1230/150, 19-21=-1478/0, 18-19=-1485/0  
 WEBS 2-31=-358/415, 28-29=0/467, 28-34=-155/444, 5-34=-604/315, 17-18=0/332, 18-35=0/947, 8-35=-579/338, 11-15=-569/361, 33-34=-414/1030, 33-35=-234/1921, 24-25=0/273, 19-20=-365/0, 26-27=-432/0, 27-28=-1197/246, 24-27=-2378/0, 20-21=-118/583, 18-20=0/1358, 6-33=-441/194, 8-33=-531/636, 5-33=-342/1326, 4-34=-171/1214, 9-35=-30/2140, 31-34=-474/487, 15-35=-395/730, 1-31=0/1345, 12-15=0/1803

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-9-10, Exterior(2) 12-9-10 to 15-9-10, Interior(1) 15-9-10 to 31-8-6, Exterior(2) 31-8-6 to 34-8-6, Interior(1) 34-8-6 to 45-2-10 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) 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) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 2x4 MT20 unless otherwise indicated.
  - 6) Gable studs spaced at 2-0-0 oc.
  - 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, with BCDL = 10.0psf.
  - 9) Ceiling deadload (5.0 psf) on member(s). 33-34, 33-35; Wall dead load (5.0psf) on member(s).28-34, 18-35



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695815
COASTROOF130	B01G	GABLE	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:38 2021 Page 2

ID:jqCdRHblruLU73I5XDfb5zc7xm-IlimTu6J2bVVgMFeVoW\_nzGHnOCHHJW2kOg5k?zoC?J

**NOTES-**

- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 26-28, 24-26, 21-24, 19-21, 18-19
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job COASTROOF130	Truss B01T	Truss Type ROOF TRUSS	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695816
---------------------	---------------	--------------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:40 2021 Page 1

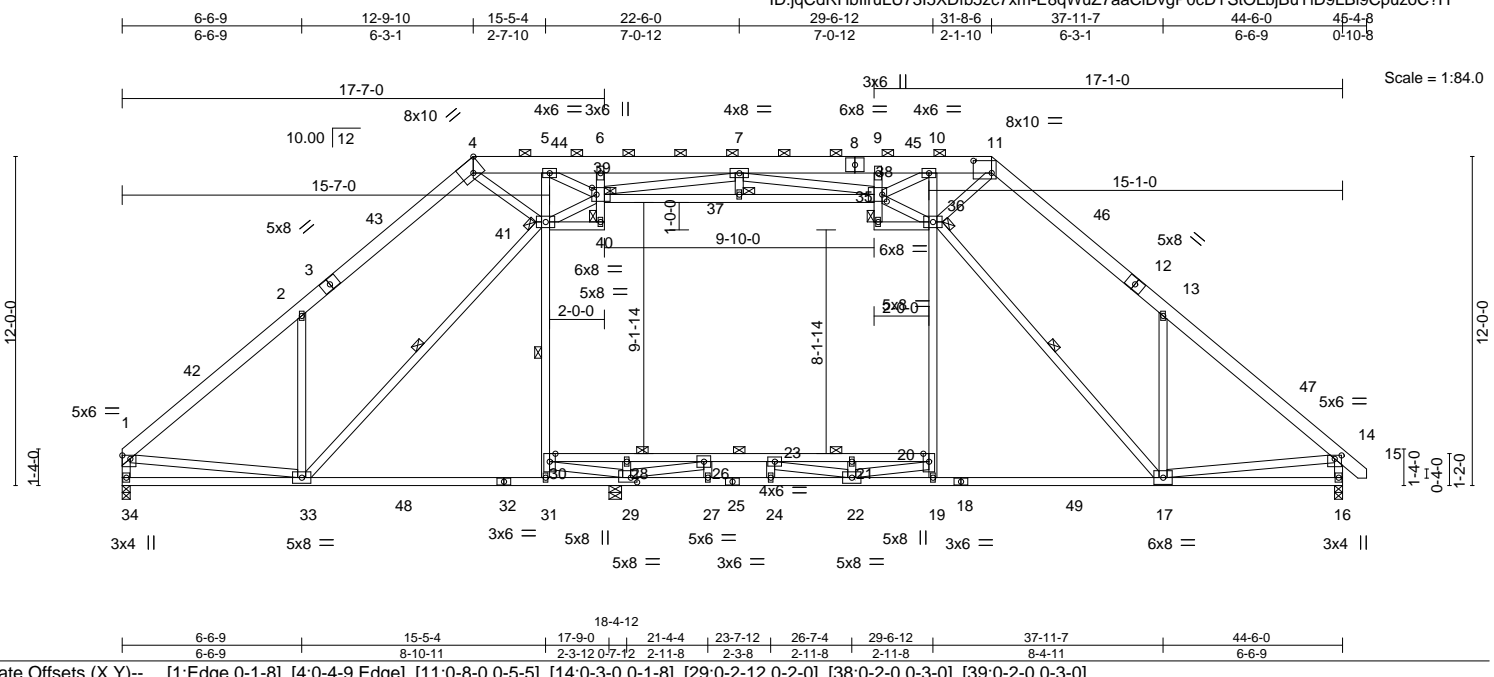


Plate Offsets (X, Y)-- [1:Edge,0-1-8], [4:0-4-9,Edge], [11:0-8-0,0-5-5], [14:0-3-0,0-1-8], [29:0-2-12,0-2-0], [38:0-2-0,0-3-0], [39:0-2-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.74	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.93	Vert(LL) -0.32 17-19 >978 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.93	Vert(CT) -0.61 17-19 >507 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.08 16 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.14 17-19 >999 240	Weight: 416 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 4-8,8-11: 2x8 SP DSS	TOP CHORD Structural wood sheathing directly applied or 3-10-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-13 max.): 4-11.
BOT CHORD 2x4 SP No.2 *Except* 18-25,25-32: 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 17-19. 4-1-0 oc bracing: 20-30
WEBS 2x4 SP No.3 *Except* 5-31,10-19,35-36,33-41,17-36,1-34,14-16,38-39,40-41: 2x4 SP No.2	WEBS 1 Row at midpt 30-41, 33-41, 17-36
	JOINTS 1 Brace at Jt(s): 35, 36, 37, 39, 40, 41

**REACTIONS.** (size) 34=0-3-8, 29=0-5-8, 16=0-3-8  
Max Horz 34=315(LC 8)  
Max Grav 34=1739(LC 2), 29=1286(LC 26), 16=2021(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 1-2=-2083/78, 2-4=-1893/303, 4-5=-1990/346, 5-6=-3347/681, 6-7=-3438/705, 7-9=-4819/517, 9-10=-4709/496, 10-11=-3072/195, 11-13=-2499/229, 13-14=-2480/0, 1-34=-1674/87, 14-16=-1978/80  
**BOT CHORD** 33-34=-267/485, 31-33=0/1483, 29-31=-17/1201, 27-29=0/2307, 24-27=0/2307, 22-24=0/2307, 19-22=0/1669, 17-19=0/1552, 28-30=-132/1773, 26-28=-131/1762, 23-26=-1034/346, 21-23=-1364/0, 20-21=-1370/0  
**WEBS** 2-33=-264/402, 30-31=0/464, 30-41=-234/357, 5-41=-553/212, 19-20=0/349, 20-36=0/935, 10-36=-950/129, 13-17=-490/347, 26-27=0/286, 21-22=-376/0, 28-29=-446/0, 29-30=-1464/218, 26-29=-2451/0, 22-23=-114/682, 20-22=0/1266, 10-38=-362/1879, 5-39=-388/1737, 4-41=-71/663, 11-36=0/1738, 33-41=-459/382, 17-36=-381/640, 1-33=0/1223, 14-17=0/1693, 37-39=-553/2780, 37-38=-553/2780, 6-39=-444/148, 9-38=-277/194, 39-41=-399/620, 7-39=-1045/265, 36-38=-186/1799, 7-38=-61/782

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-9-10, Exterior(2) 12-9-10 to 15-9-10, Interior(1) 15-9-10 to 31-8-6, Exterior(2) 31-8-6 to 34-8-6, Interior(1) 34-8-6 to 45-2-10 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
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 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.
  - 7) Ceiling dead load (5.0 psf) on member(s). 35-36, 37-39, 37-38, 40-41; Wall dead load (5.0psf) on member(s).30-41, 20-36
  - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 28-30, 26-28, 23-26, 21-23, 20-36



Job	Truss	Truss Type	Qty	Ply	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695816
COASTROOF130	B01T	ROOF TRUSS	99	1	Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:40 2021 Page 2  
ID:jqCdRHblruLU73i5XDfb5zc7xm-E8qWuZ7aaCIDvgP0cDYStOLbjBuYID9LBI9CpuzoC?H

**NOTES-**

- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Attic room checked for L/360 deflection.

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

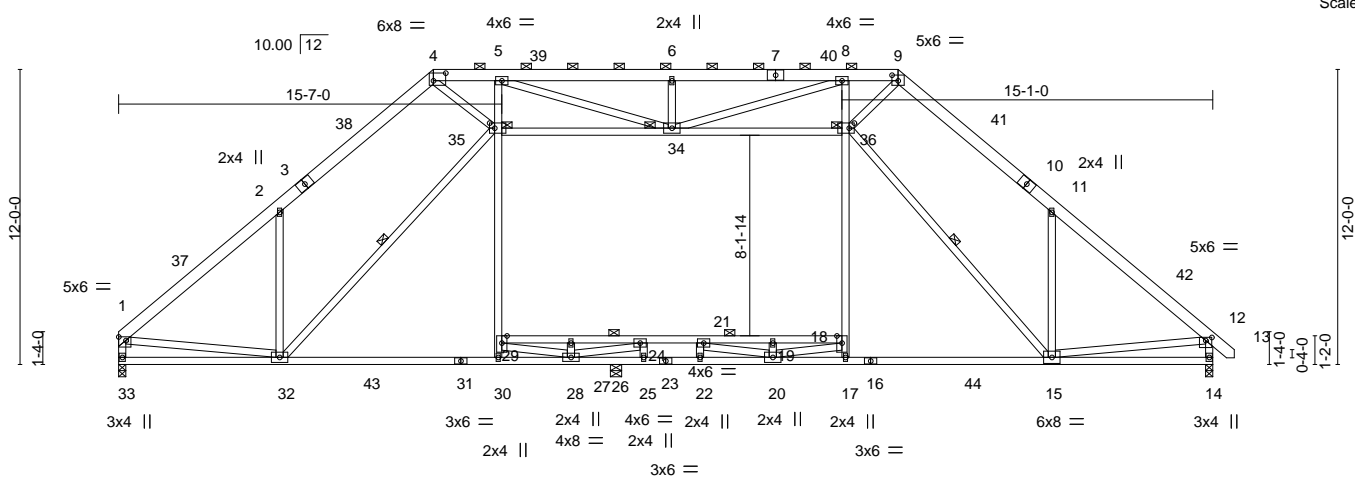
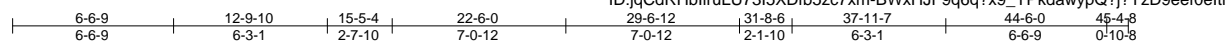
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job COASTROOF130	Truss B02	Truss Type ROOF TRUSS	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695817
---------------------	--------------	--------------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:42 2021 Page 1



Scale = 1:93.7

Plate Offsets (X, Y)--	[1:Edge,0-1-12], [4:0-6-0,0-3-12], [9:0-3-0,0-2-12], [12:0-3-0,0-1-8], [35:0-2-8,0-2-8], [36:0-2-8,0-2-8]
------------------------	---

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.27 15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-0.50 15-17	>575	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.07 14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.12 15-17	>999	240	Weight: 394 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-14 max.): 4-9.
BOT CHORD 2x4 SP No.2 *Except* 18-29: 2x4 SP No.1, 16-23,23-31: 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 26-28,25-26. 4-11-0 oc bracing: 18-29
WEBS 2x4 SP No.3 *Except* 5-30,8-17,35-36,32-35,15-36,1-33,12-14: 2x4 SP No.2	WEBS 1 Row at midpt 32-35, 15-36
	JOINTS 1 Brace at Jt(s): 34, 35, 36

**REACTIONS.** (size) 33=0-3-8, 14=0-3-8, 26=0-5-8  
Max Horz 33=317(LC 10)  
Max Grav 33=1870(LC 2), 14=2034(LC 2), 26=1133(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-2287/82, 2-4=-2183/316, 4-5=-2740/409, 5-6=-3586/527, 6-8=-3586/527, 8-9=-3149/318, 9-11=-2529/269, 11-12=-2495/46, 1-33=-1811/89, 12-14=-1989/97  
BOT CHORD 32-33=-269/437, 30-32=0/1532, 28-30=-31/1396, 26-28=0/1314, 25-26=0/1314, 22-25=0/1314, 20-22=0/1314, 17-20=0/1623, 15-17=0/1562, 27-29=-56/1204, 24-27=-55/1195, 21-24=-333/887, 19-21=-964/0, 18-19=-969/0  
WEBS 2-32=-395/410, 29-30=0/543, 29-35=-31/560, 5-35=-583/325, 17-18=0/356, 18-36=0/830, 8-36=-598/336, 11-15=-517/376, 34-35=-398/1240, 34-36=-287/1710, 24-25=-399/0, 19-20=-460/0, 27-28=-303/0, 28-29=-1036/137, 24-28=-925/0, 20-21=0/1204, 18-20=0/929, 6-34=-440/194, 8-34=-524/846, 5-34=-409/1139, 4-35=-149/1449, 9-36=-63/1931, 32-35=-463/534, 15-36=-416/680, 1-32=0/1460, 12-15=0/1704

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-9-10, Exterior(2) 12-9-10 to 15-9-10, Interior(1) 15-9-10 to 31-8-6, Exterior(2) 31-8-6 to 34-8-6, Interior(1) 34-8-6 to 45-2-10 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
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are 5x8 MT20 unless otherwise indicated.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 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.
  - 7) Ceiling dead load (5.0 psf) on member(s). 34-35, 34-36; Wall dead load (5.0psf) on member(s).29-35, 18-36
  - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 24-27, 21-24, 19-21, 18-19
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 10) Attic room checked for L/360 deflection.



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

**ENGINEERING BY TRENCO**  
A MiTek Affiliate  
818 Soundside Road  
Edenton, NC 27932

Job COASTROOF130	Truss B02T	Truss Type ROOF TRUSS	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695818
---------------------	---------------	--------------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:44 2021 Page 1

ID:jqCdRHbliruLU7315XDfb5zc7xm-7v31kx4AeRFfOHior2dO1EWJxoEsh3jx6K7PfyzoC?D

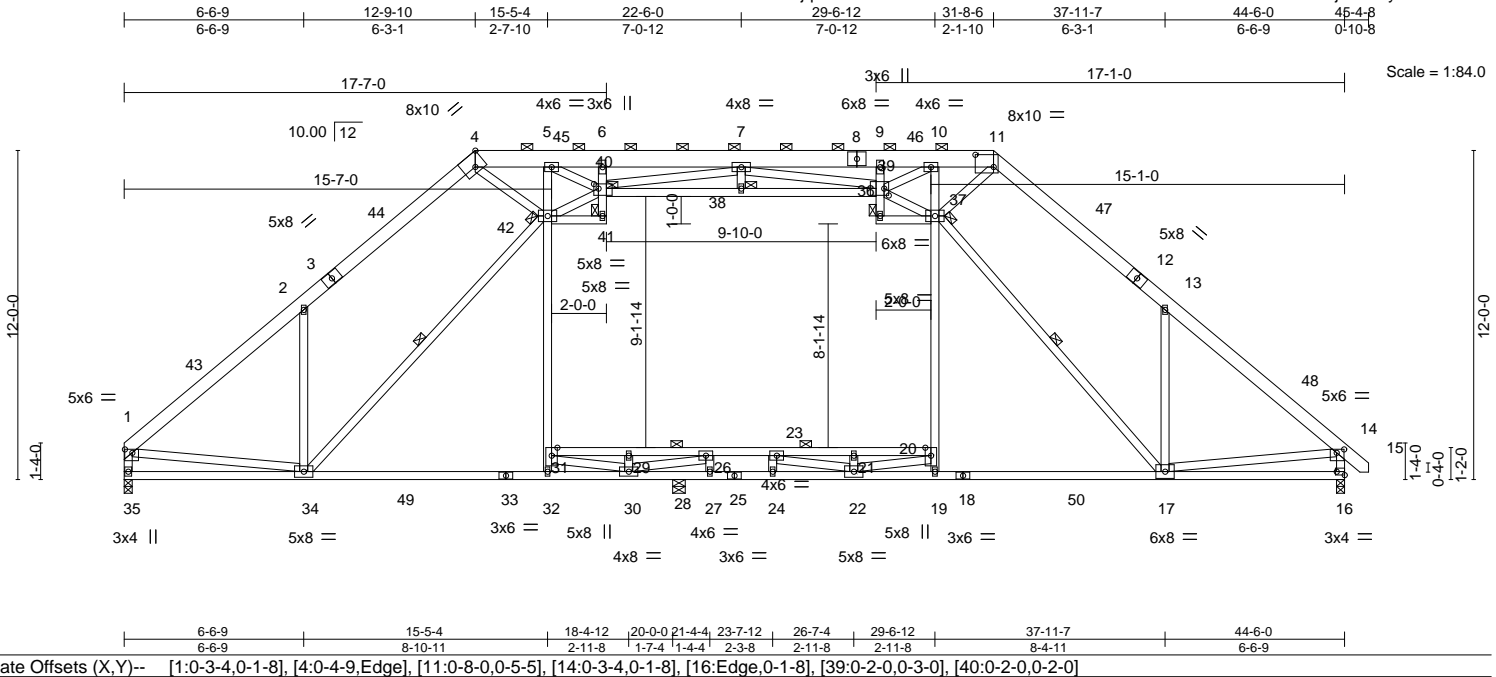


Plate Offsets (X, Y)-- [1:0-3-4,0-1-8], [4:0-4-9,Edge], [11:0-8-0,0-5-5], [14:0-3-4,0-1-8], [16:Edge,0-1-8], [39:0-2-0,0-3-0], [40:0-2-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.99	Vert(LL) -0.27 17-19 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.83	Vert(CT) -0.52 17-19 >552 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.07 16 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.13 17-19 >999 240	Weight: 416 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 4-8,8-11: 2x8 SP DSS	TOP CHORD Structural wood sheathing directly applied or 4-1-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-10 max.): 4-11.
BOT CHORD 2x4 SP No.2 *Except* 20-31: 2x4 SP No.1, 18-25,25-33: 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 28-30,27-28. 5-1-0 oc bracing: 20-31
WEBS 2x4 SP No.3 *Except* 5-32,10-19,36-37,34-42,17-37,1-35,14-16,39-40,41-42: 2x4 SP No.2	WEBS 1 Row at midpt 34-42, 17-37 JOINTS 1 Brace at Jt(s): 36, 37, 38, 40, 41, 42

**REACTIONS.** (size) 35=0-3-8, 16=0-3-8, 28=0-5-8  
Max Horz 35=315(LC 8)  
Max Grav 35=1832(LC 2), 16=2002(LC 2), 28=1200(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-2223/73, 2-4=-2071/294, 4-5=-2359/322, 5-6=-3824/649, 6-7=-3922/673,  
7-9=-4554/562, 9-10=-4447/540, 10-11=-2857/231, 11-13=-2408/249, 13-14=-2437/39,  
1-35=-1772/85, 14-16=-1953/94  
BOT CHORD 34-35=-270/459, 32-34=0/1550, 30-32=-26/1404, 28-30=0/1157, 27-28=0/1157,  
24-27=0/1157, 22-24=0/1157, 19-22=0/1590, 17-19=0/1579, 16-17=-75/253,  
29-31=-86/1385, 26-29=-85/1376, 23-26=-329/1094, 21-23=-870/33, 20-21=-875/36  
WEBS 2-34=-306/395, 31-32=0/545, 31-42=-67/522, 5-42=-667/198, 19-20=0/366, 20-37=0/820,  
10-37=-820/141, 13-17=-429/362, 26-27=-429/0, 21-22=-471/0, 29-30=-304/0,  
30-31=-1204/125, 26-30=-890/0, 22-23=0/1302, 20-22=-31/869, 10-39=-368/1861,  
5-40=-383/1802, 4-42=-47/998, 11-37=0/1511, 34-42=-448/428, 17-37=-402/576,  
1-34=0/1371, 14-17=0/1604, 38-40=-553/2843, 38-39=-553/2843, 6-40=-402/163,  
9-39=-326/191, 40-42=-374/924, 7-40=-705/349, 37-39=-249/1521, 7-39=-319/489

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-9-10, Exterior(2) 12-9-10 to 15-9-10, Interior(1) 15-9-10 to 31-8-6, Exterior(2) 31-8-6 to 34-8-6, Interior(1) 34-8-6 to 45-2-10 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) Provide adequate drainage to prevent water ponding.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 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.
  - 7) Ceiling dead load (5.0 psf) on member(s). 36-37, 38-40, 38-39, 41-42; Wall dead load (5.0psf) on member(s).31-42, 20-37
  - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 29-31, 26-29, 23-26, 21-23, 20-21
- Graphical page representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job COASTROOF130	Truss B02T	Truss Type ROOF TRUSS	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695818 Job Reference (optional)
---------------------	---------------	--------------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:44 2021 Page 2  
ID:jqCdRHblruLU73l5XDfb5zc7xm-7v31kx4eRFfOHior2dO1EWJxoESH3jx6K7PyfzoC?D

**NOTES-**

10) Attic room checked for L/360 deflection.

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

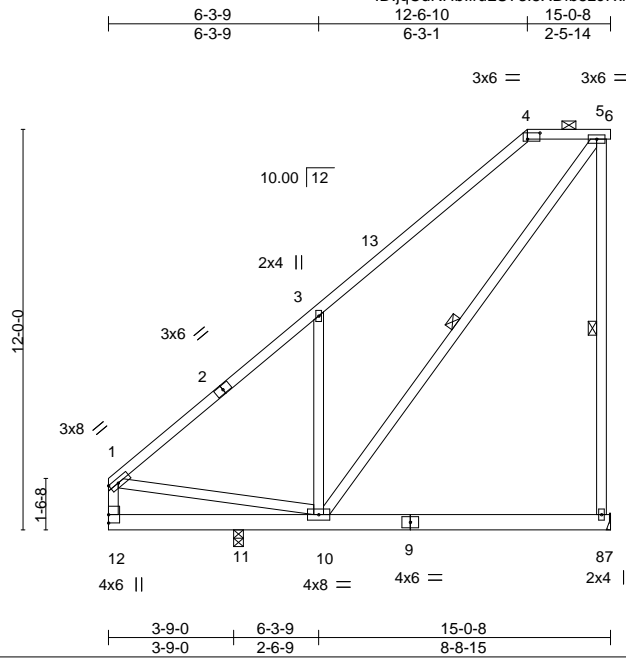
Job COASTROOF130	Truss B03	Truss Type MONO HIP	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695819
---------------------	--------------	------------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:45 2021 Page 1

ID:jqCdRHblruLU73I5XDfb5zc7xm-b5dPxHBiPINW0RH\_Pm8dZS2QkCi5Qbq4LtzU5zoC?C



Scale = 1:69.0

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.85	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.45	Vert(LL) -0.11 8-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.45	Vert(CT) -0.18 8-10 >713 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) -0.00 8 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.15 8-10 >859 240	Weight: 120 lb	FT = 20%

**LUMBER-**

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 9-12: 2x6 SP DSS
WEBS	2x4 SP No.2 *Except* 1-10,3-10: 2x4 SP No.3

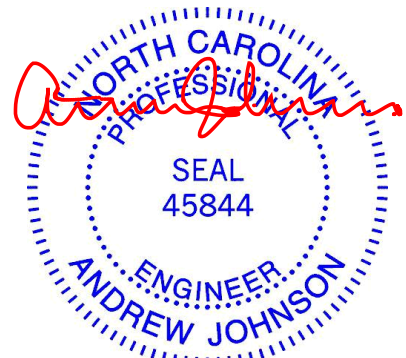
**BRACING-**

TOP CHORD	Structural wood sheathing directly applied or 4-6-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 5-10, 5-8

**REACTIONS.** (size) 8=Mechanical, 11=0-3-8  
 Max Horz 11=392(LC 12)  
 Max Uplift 8=279(LC 12)  
 Max Grav 8=473(LC 2), 11=787(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-12=-292/57, 1-3=-256/42, 3-4=-356/276, 4-5=-279/288  
 BOT CHORD 10-11=-487/327  
 WEBS 1-10=-42/364, 3-10=-541/373, 5-10=-492/476, 5-8=-410/378

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-6-10, Exterior(2) 12-6-10 to 15-0-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 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.
  - 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) 8=279.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

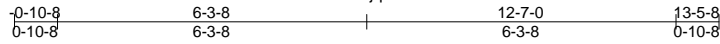
Job COASTROOF130	Truss C01	Truss Type COMMON	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695820
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:45 2021 Page 1

ID:jqCdRHbllruLU73I5XDfb5zc7xm-b5dPxHBiPINW0RH\_Pm8dZS2WECKSQhw4LtzU5zoC?C



4x6 =

Scale = 1:46.9

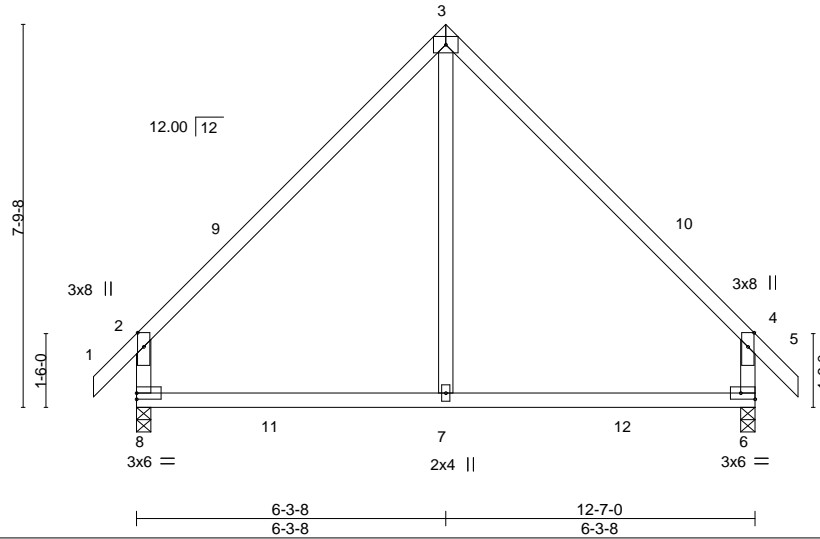


Plate Offsets (X,Y)--	[6:Edge,0-1-8]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.05	7-8	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.09	7-8	>999	240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	6	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR	Wind(LL)	-0.07	7-8	>999	240
							Weight: 63 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2 *Except* 3-7: 2x4 SP No.3		

**REACTIONS.** (size) 8=0-3-8, 6=0-3-8  
 Max Horz 8=-228(LC 10)  
 Max Uplift 8=-39(LC 13), 6=-39(LC 12)  
 Max Grav 8=598(LC 20), 6=598(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-8=-506/193, 2-3=-546/138, 3-4=-546/137, 4-6=-506/192  
 BOT CHORD 7-8=-31/341, 6-7=-31/341  
 WEBS 3-7=0/330

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-3-8, Exterior(2) 6-3-8 to 10-6-7, Interior(1) 10-6-7 to 13-5-8 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.



February 5, 2021

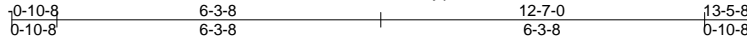


Job COASTROOF130	Truss C01G	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695821
---------------------	---------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

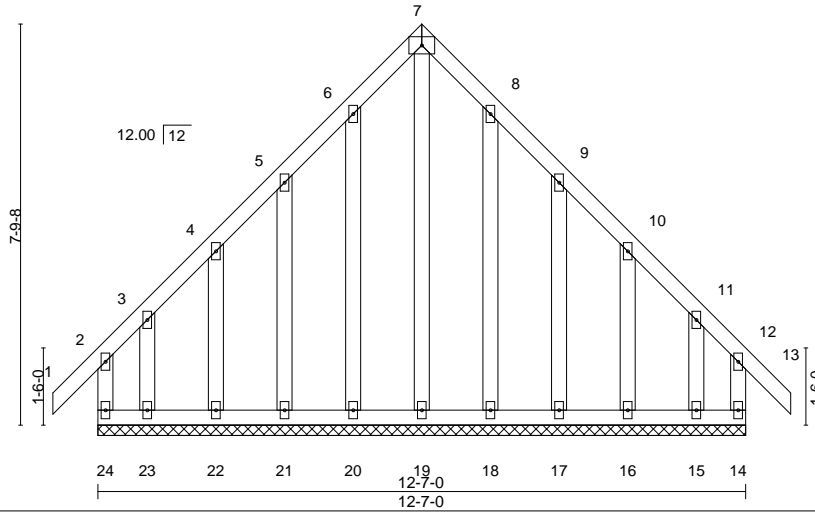
Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:46 2021 Page 1  
ID:jqCdRHblrrLU73l5XDfb5zc7xm-3lBo9dCLA2VNdbSAzTfs6fbmcd7l94XEadcW0YzoC?B



4x6 =

Scale = 1:44.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	-0.00	13	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.00	13	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.36	Horz(CT)	-0.00	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 110 lb	FT = 20%

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

**REACTIONS.** All bearings 12-7-0.  
 (lb) - Max Horz 24=228(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 22, 18, 17, 16 except 24=233(LC 8), 14=210(LC 9), 23=231(LC 9), 15=215(LC 8)  
 Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 18, 17, 16 except 24=274(LC 11), 14=251(LC 19), 19=278(LC 13), 23=272(LC 10), 15=254(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 6-7=-212/292, 7-8=-212/292  
 WEBS 7-19=-343/203

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-3-8, Exterior(2) 2-3-8 to 6-3-8, Corner(3) 6-3-8 to 9-3-8, Exterior(2) 9-3-8 to 13-5-8 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) 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 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 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 members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21, 22, 18, 17, 16 except (jt=lb) 24=233, 14=210, 23=231, 15=215.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

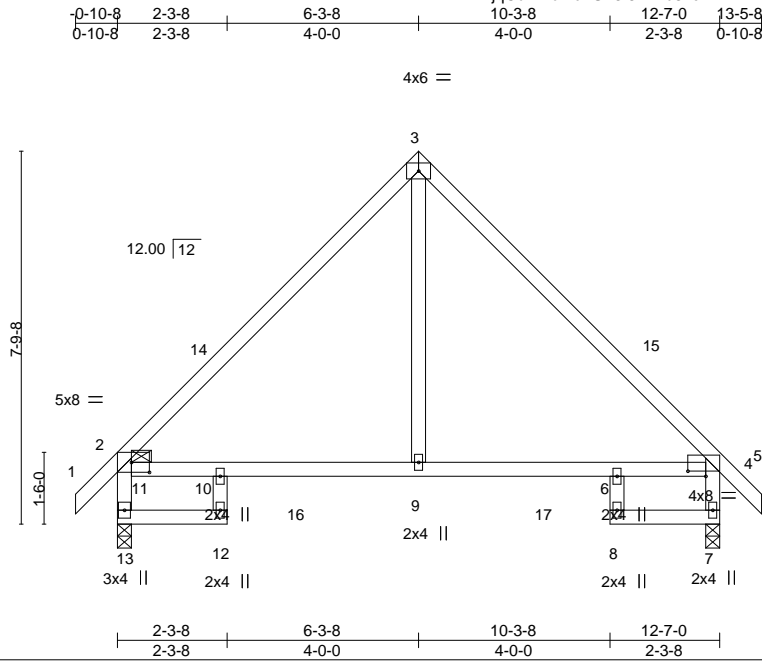


818 Soundside Road  
 Edenton, NC 27932

Job COASTROOF130	Truss C01T	Truss Type SPECIAL	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695822
---------------------	---------------	-----------------------	-----------	----------	---

Builders firstsource, Apex . NC

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 15:03:47 2021 Page 1  
ID:jqCdRHblruLU73I5XDfb5zc7xm-H1x?xhusxZzn3ExFft9E9iGYTo9D2kK0qaxfuGzo9BA



Scale: 1/4"=1'

Plate Offsets (X,Y)-- [2:0-1-12,0-1-12], [2:0-4-8,0-2-8], [4:0-4-8,0-1-5], [11:0-0-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) 0.10	9-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.13	9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.12	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR					Weight: 70 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-13,4-7: 2x4 SP No.2	

**REACTIONS.** (size) 13=0-3-8, 7=0-3-8  
 Max Horz 13=-226(LC 10)  
 Max Uplift 13=-39(LC 13), 7=-38(LC 13)  
 Max Grav 13=568(LC 20), 7=569(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 11-13=-586/159, 2-11=-540/187, 2-14=-559/78, 3-14=-424/113, 3-15=-500/131,  
 4-15=-607/92, 4-7=-542/160  
 BOT CHORD 10-11=-36/398, 10-16=-36/398, 9-16=-36/398, 9-17=-36/398, 6-17=-36/398, 4-6=-34/399  
 WEBS 3-9=0/328

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-3-8, Exterior(2) 6-3-8 to 10-6-7, Interior(1) 10-6-7 to 13-5-8 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* 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.
  - 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 13 and 38 lb uplift at joint 7.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

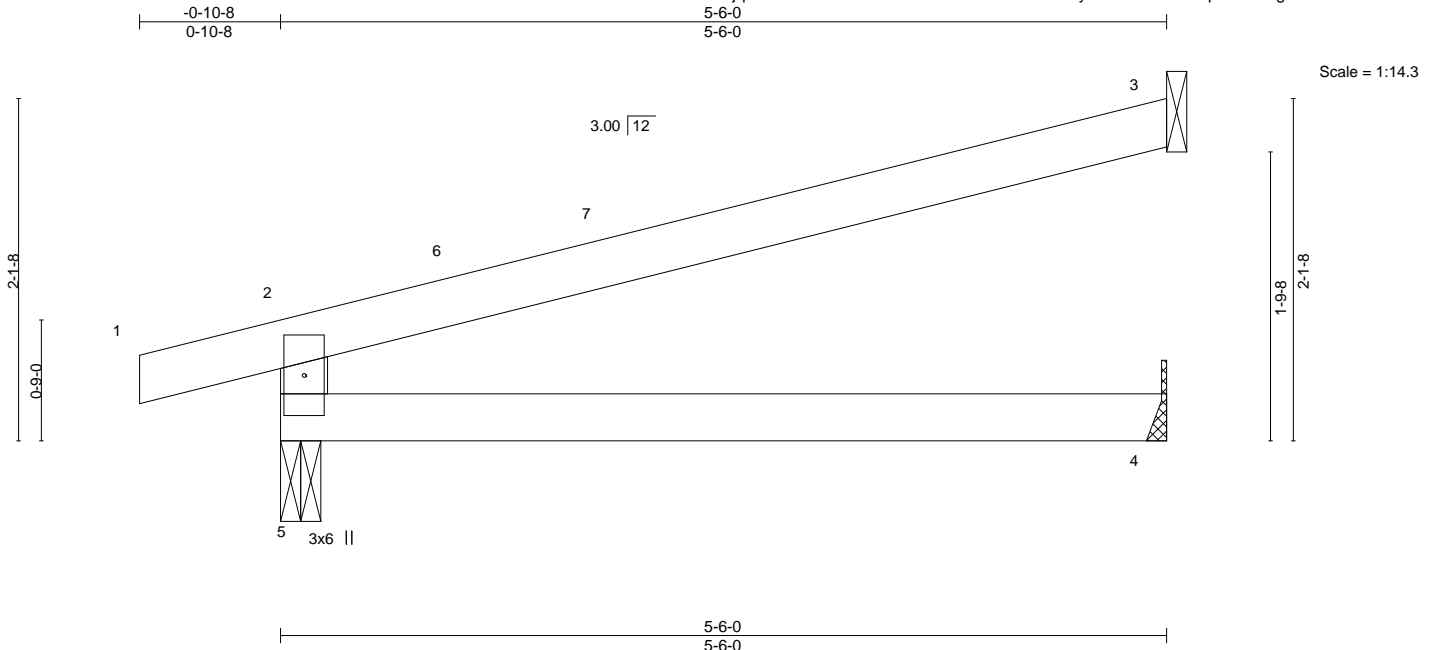


Job COASTROOF130	Truss CP01	Truss Type JACK	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695824 Job Reference (optional)
---------------------	---------------	--------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:49 2021 Page 1

ID:jqCdRHblrruLU73l5XDfb5zc7xm-TtswneEDTztyU3blecCZkIDC1p6EMWsgGbrAdtzoC?8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.45	Vert(LL)	0.10	4-5	>667	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.31	Vert(CT)	-0.08	4-5	>790		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.03	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR					Weight: 18 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

**REACTIONS.** (size) 5=0-3-0, 3=Mechanical, 4=Mechanical  
 Max Horz 5=58(LC 8)  
 Max Uplift 5=124(LC 8), 3=72(LC 8), 4=26(LC 8)  
 Max Grav 5=279(LC 1), 3=143(LC 1), 4=99(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=124.



February 5, 2021

Job COASTROOF130	Truss CP01G	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695825 Job Reference (optional)
---------------------	----------------	---------------------	-----------	----------	---

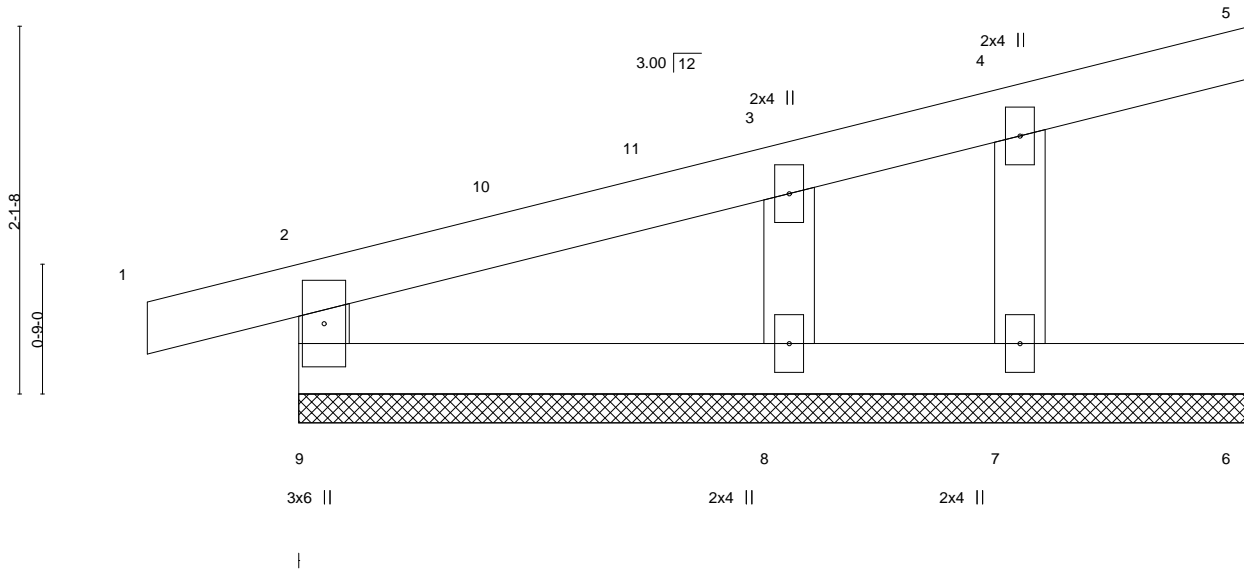
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:50 2021 Page 1

ID:jqCdRHblruLU73l5XDfb5zc7xm-y3QI?\_FrDH0o6CAXCJkoGVmTkDWb5zXpVfaj9JzoC?7



Scale = 1:13.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 22 lb	FT = 20%

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

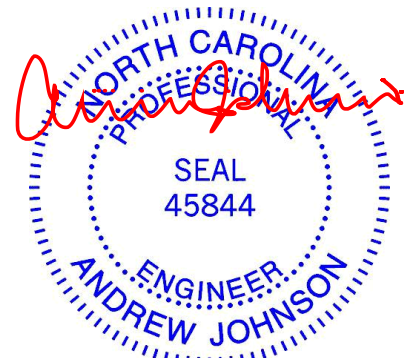
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 5-6-0.  
(lb) - Max Horz 9=58(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 9, 5, 7, 8  
Max Grav All reactions 250 lb or less at joint(s) 9, 5, 6, 7, 8

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch 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) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 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 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 5, 7, 8.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

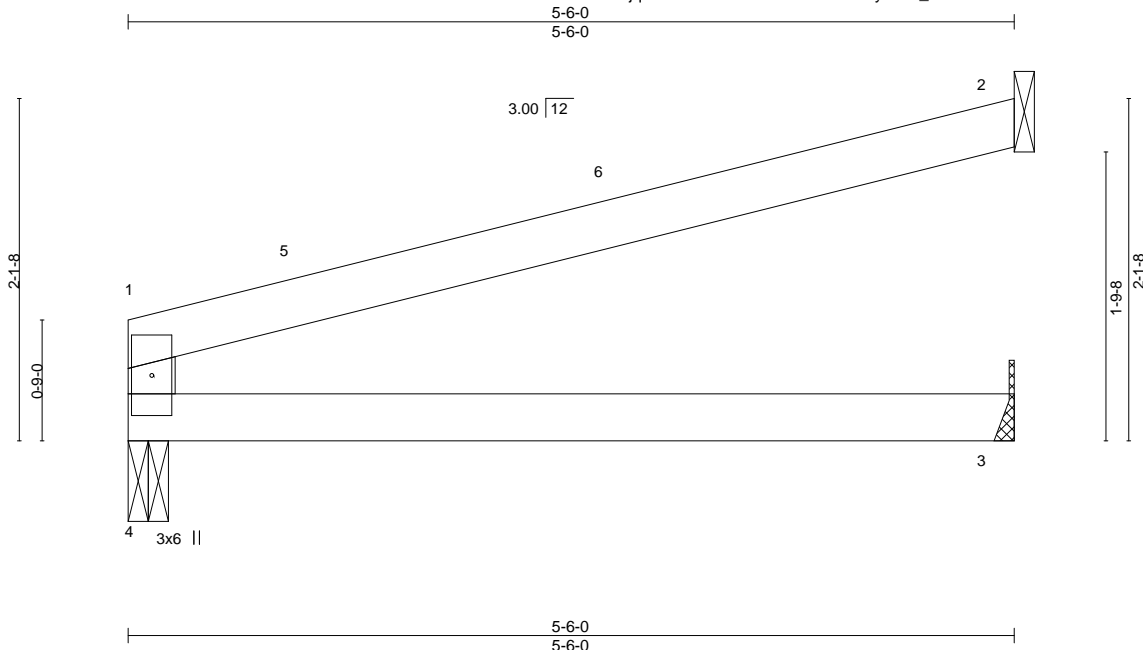
Job COASTROOF130	Truss CP02	Truss Type JACK	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695826 Job Reference (optional)
---------------------	---------------	--------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:50 2021 Page 1

ID:jqCdRHblrluLU73i5Xdfb5zc7xm-y3QI?\_FrDH0o6CAxCKoGVmNRDSQ5z6pVFaj9JzoC?7



Scale = 1:14.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	0.10 3-4	>657	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.08 3-4	>772	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.03 2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR					Weight: 17 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 4=0-3-0, 2=Mechanical, 3=Mechanical  
 Max Horz 4=45(LC 12)  
 Max Uplift 4=-79(LC 8), 2=-74(LC 8), 3=-27(LC 8)  
 Max Grav 4=212(LC 1), 2=147(LC 1), 3=100(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 3.



February 5, 2021

Job COASTROOF130	Truss D01	Truss Type COMMON	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695827
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:51 2021 Page 1  
ID:jqCdRHblruLU7315XDfb5zc7xm-QF\_hCKGT\_b8fkMk8l0F1pjlXpdmjqO3zjvKHlzoC?6

0-10-8 7-0-0 14-0-0 14-10-8  
0-10-8 7-0-0 7-0-0 0-10-8

4x6 =

Scale = 1:51.0

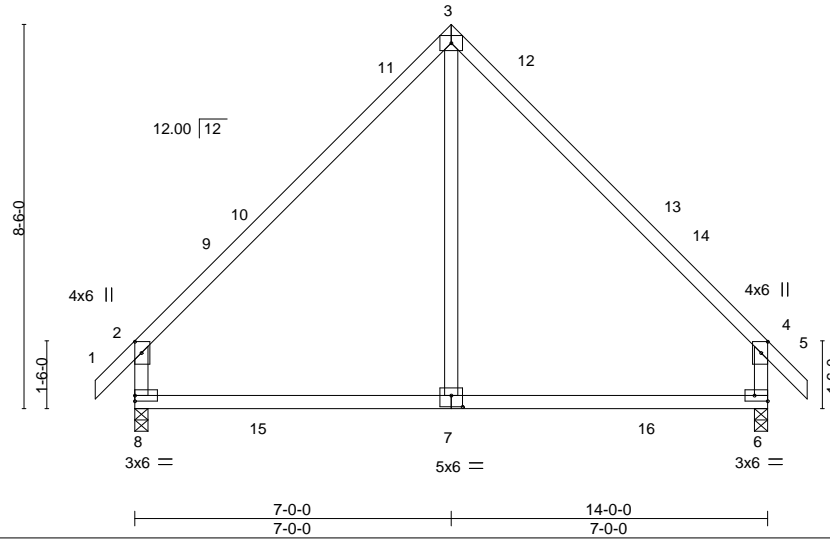


Plate Offsets (X,Y)--	[2:0-3-0,0-1-12], [4:0-3-0,0-1-12], [6:Edge,0-1-8], [7:0-3-0,0-3-0]
-----------------------	---

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.56	Vert(LL)	-0.08	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.13	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR	Wind(LL)	-0.09	7-8	>999		
								Weight: 70 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 3-7: 2x4 SP No.3	

**REACTIONS.** (size) 8=0-3-8, 6=0-3-8  
 Max Horz 8=246(LC 11)  
 Max Uplift 8=-39(LC 12), 6=-39(LC 13)  
 Max Grav 8=669(LC 20), 6=669(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-8=-567/198, 2-3=-625/143, 3-4=-625/143, 4-6=-567/198  
 BOT CHORD 7-8=-31/391, 6-7=-31/391  
 WEBS 3-7=0/388

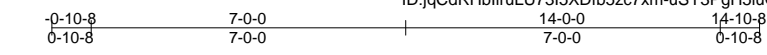
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 14-10-8 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.



February 5, 2021

Job COASTROOF130	Truss D01G	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695828
---------------------	---------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:52 2021 Page 1



4x6 = Scale = 1:51.3

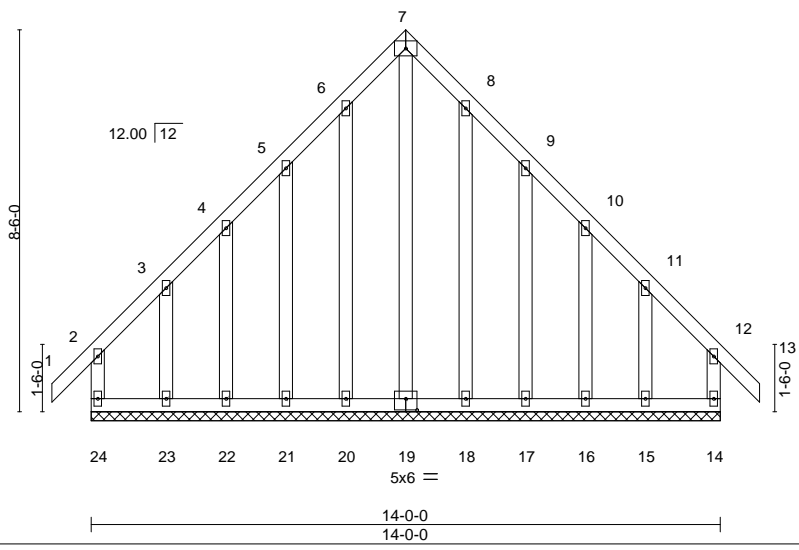


Plate Offsets (X,Y)--	[19:0-3-0,0-3-0]
-----------------------	------------------

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	-0.00	13	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.00	13	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.48	Horz(CT)	0.00	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						

Weight: 124 lb FT = 20%

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

**REACTIONS.** All bearings 14-0-0.  
 (lb) - Max Horz 24=246(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 20, 21, 22, 18, 17, 16 except 24=174(LC 8), 14=158(LC 9), 23=186(LC 9), 15=179(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 24, 14, 20, 21, 22, 18, 17, 16, 15 except 19=316(LC 13), 23=251(LC 10)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 5-6=-210/285, 6-7=-244/325, 7-8=-244/325, 8-9=-210/285  
 WEBS 7-19=-385/245

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 7-0-0, Corner(3) 7-0-0 to 10-0-0, Exterior(2) 10-0-0 to 14-10-8 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) 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) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 7) Gable studs spaced at 1-4-0 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 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.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 21, 22, 18, 17, 16 except (jt=lb) 24=174, 14=158, 23=186, 15=179.





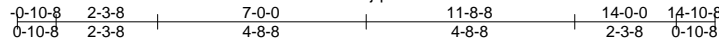
Job COASTROOF130	Truss D01T	Truss Type SPECIAL	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695829
---------------------	---------------	-----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:53 2021 Page 1

ID:jqCdRHblruLU7315XDfb5zc7xm-Me6Rd0HKWCONzguWtRHVu8OqlRQRlIYGbDpOmezoC74



4x6 =

Scale = 1:52.0

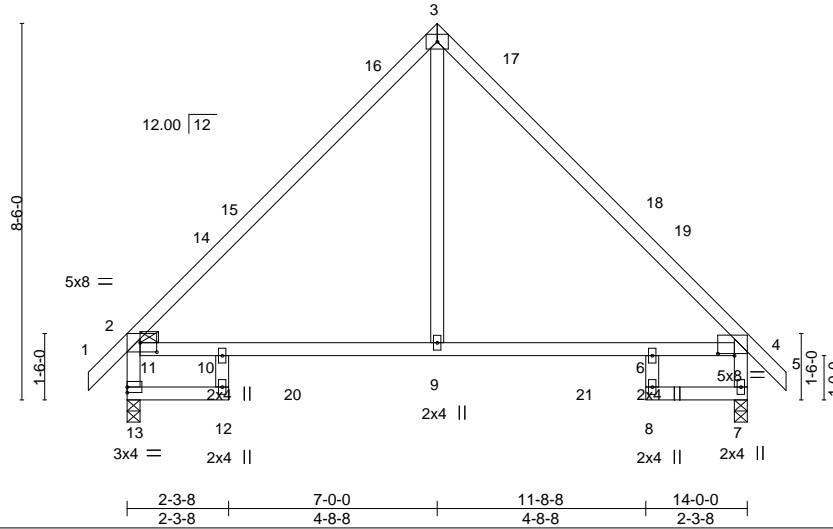


Plate Offsets (X,Y)-- [2:0-1-12,0-1-12], [2:0-4-8,0-2-8], [4:0-4-8,0-0-9], [11:0-0-0,0-1-12]

<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 0.66	Vert(LL)	0.14	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.19	9-10	>872		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.16	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR						
								Weight: 76 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
2-13,4-7: 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-9-1 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 13=0-3-8, 7=0-3-8  
Max Horz 13=-244(LC 10)  
Max Uplift 13=-39(LC 12), 7=-41(LC 13)  
Max Grav 13=639(LC 20), 7=641(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 11-13=-666/167, 2-11=-605/197, 2-3=-643/123, 3-4=-689/137, 4-7=-618/167  
BOT CHORD 10-11=-35/451, 9-10=-35/451, 6-9=-35/451, 4-6=-33/453  
WEBS 3-9=0/388

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 14-10-8 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 7.



February 5, 2021

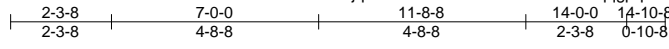
Job COASTROOF130	Truss D02T	Truss Type SPECIAL	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695830
---------------------	---------------	-----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:54 2021 Page 1

ID:jqCdRHblrruLU73i5XDfb5zc7xm-qggpgMIMHWWEBqTJR9okRLw\_6qmy1koPQTYxJ4zoC?3



4x6 =

Scale = 1:52.4

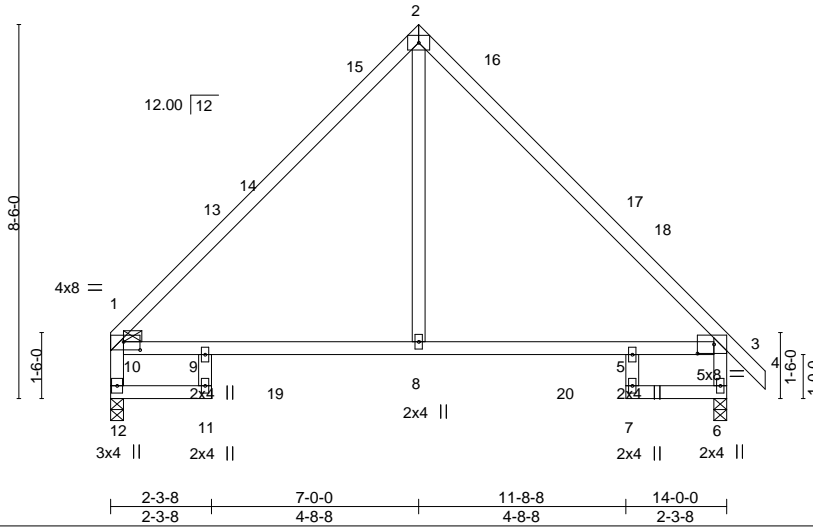


Plate Offsets (X,Y)-- [1:0-1-12,0-1-12], [1:0-4-8,0-2-4], [3:0-4-8,0-2-8], [10:0-0-0,0-1-12]

<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 0.75	Vert(LL)	0.13	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(CT)	-0.18	8-9	>903		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.14	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR						
								Weight: 74 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 1-12,3-6: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-9-12 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

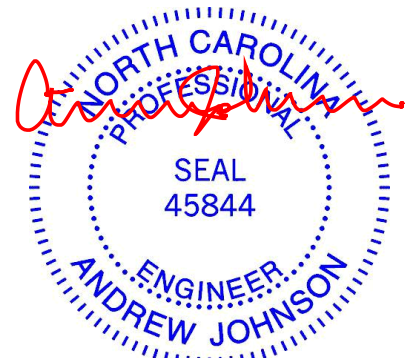
(size) 12=0-3-8, 6=0-3-8  
 Max Horz 12=-235(LC 8)  
 Max Uplift 12=-31(LC 13), 6=-41(LC 13)  
 Max Grav 12=599(LC 20), 6=642(LC 19)

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

TOP CHORD 10-12=-600/108, 1-10=-540/142, 1-2=-639/113, 2-3=-690/132, 3-6=-619/166  
 BOT CHORD 9-10=-34/453, 8-9=-34/453, 5-8=-34/453, 3-5=-32/455  
 WEBS 2-8=0/386

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-0-0, Exterior(2) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 14-10-8 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 6.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

Job COASTROOF130	Truss D03T	Truss Type SPECIAL	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695831
---------------------	---------------	-----------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:55 2021 Page 1

ID:jqCdRHblrruLU73l5XDfb5zc7xm-I0EB2iJ\_2pe5C\_2v\_sJzzZT9uE5PmB2ZeXlUrWzoC?2



4x6 =

Scale = 1:51.7

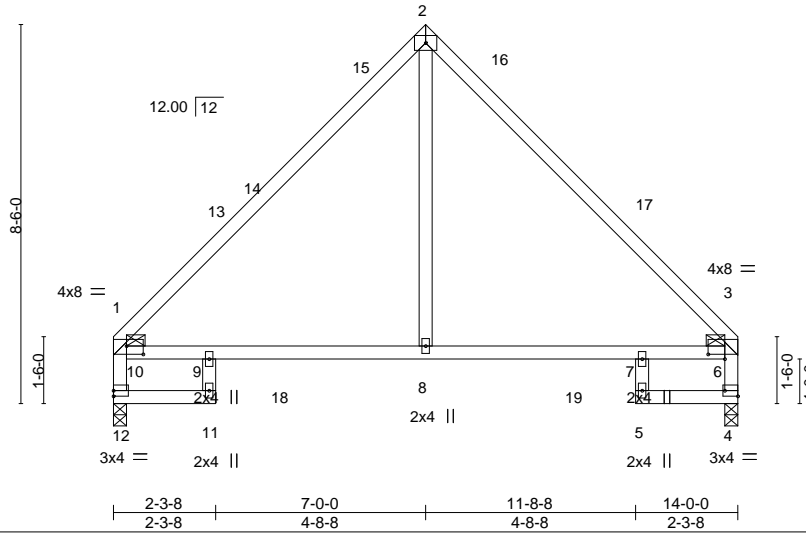


Plate Offsets (X,Y)--	[1:0-1-12,0-1-12], [1:0-4-8,0-2-4], [3:0-1-12,0-1-12], [3:0-4-8,0-1-4], [4:Edge,0-1-8], [6:0-0-0,0-1-12], [10:0-0-0,0-1-12]
-----------------------	---

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) 0.14 8-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Vert(CT) -0.18 8-9 >933 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.11 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 73 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-4 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 1-12,3-4: 2x4 SP No.2	

REACTIONS.
(size) 12=0-3-8, 4=0-3-8
Max Horz 12=-220(LC 8)
Max Uplift 12=-30(LC 13), 4=-30(LC 12)
Max Grav 12=601(LC 20), 4=601(LC 19)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-12=-599/112, 1-10=-540/142, 1-2=-641/115, 2-3=-683/136, 4-6=-572/113, 3-6=-534/140
BOT CHORD 9-10=-46/441, 8-9=-46/441, 7-8=-46/441, 6-7=-46/441
WEBS 2-8=0/386

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-0-0, Exterior(2) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 13-10-4 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
  - 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 100 lb uplift at joint(s) 12, 4.



February 5, 2021

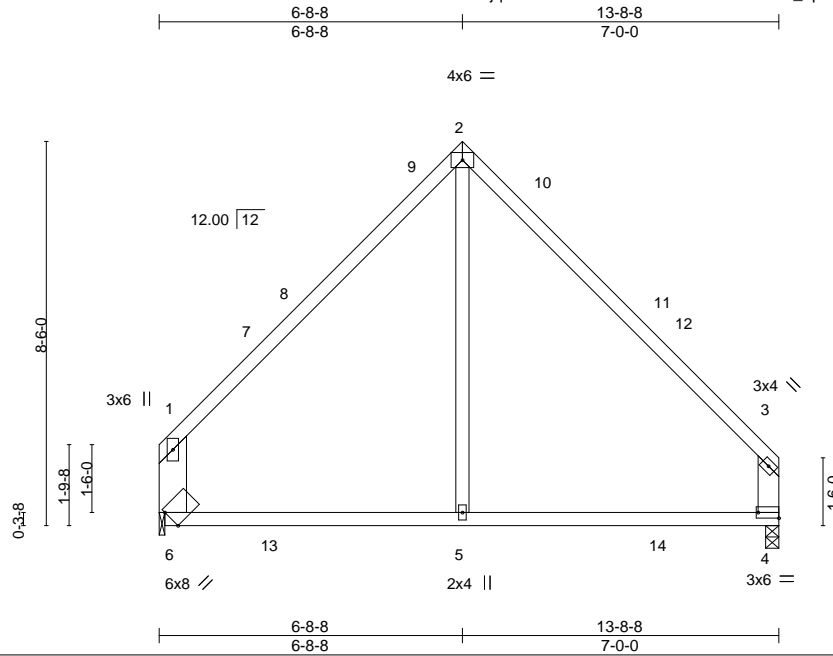
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
--	---

Job COASTROOF130	Truss D04	Truss Type COMMON	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695832
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:55 2021 Page 1  
ID:jqCdRHblruLU73I5XDfb5zc7xm-I0EB2iJ\_2pe5C\_2v\_sJzzZTCIE4AmBJZeXIUrWzoc?2



Scale = 1:51.0

Plate Offsets (X,Y)-- [4:Edge,0-1-8]		CSI.		DEFL.				PLATES	GRIP
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>TC</b> 0.53	<b>DEFL.</b> in (loc) l/defl L/d				<b>MT20</b>	<b>244/190</b>	
TCLL 20.0	Plate Grip DOL 1.15	BC 0.60	Vert(LL) -0.10 4-5 >999 360						
TCDL 10.0	Lumber DOL 1.15	WB 0.13	Vert(CT) -0.18 4-5 >872 240						
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.01 4 n/a n/a						
BCDL 10.0	Code IRC2015/TPI2014		Wind(LL) -0.10 4-5 >999 240				Weight: 70 lb	FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 2-3: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x8 SP DSS *Except* 3-4: 2x6 SP No.2, 2-5: 2x4 SP No.3	

**REACTIONS.** (size) 4=0-3-8, 6=0-1-8  
 Max Horz 6=-226(LC 10)  
 Max Uplift 4=-33(LC 12), 6=-32(LC 13)  
 Max Grav 4=610(LC 19), 6=620(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-6=-472/151, 1-2=-572/141, 2-3=-580/139, 3-4=-477/153  
 BOT CHORD 5-6=-47/354, 4-5=-47/354  
 WEBS 2-5=0/342

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-7-2 to 3-7-2, Interior(1) 3-7-2 to 7-0-0, Exterior(2) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 13-9-4 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
  - 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.
  - Bearing at joint(s) 6 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 at joint(s) 6.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 6.



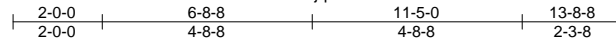
February 5, 2021

Job COASTROOF130	Truss D04T	Truss Type SPECIAL	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695833
---------------------	---------------	-----------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:56 2021 Page 1

ID:jqCdRHblruLU73l5XDfb5zc7xm-mDnaF1Kcp7myq8d5YarCWm0KXeSmVeritB12NzcoC?1



4x6 =

Scale = 1:51.7

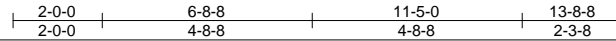
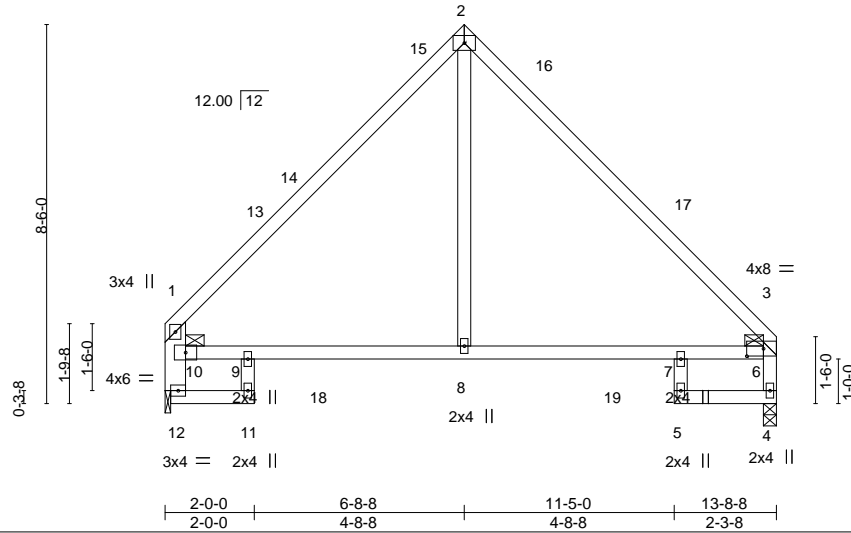


Plate Offsets (X,Y)--	[3:0-4-8,0-2-0], [6:0-0-0,0-1-12]
-----------------------	-----------------------------------

<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 0.75	Vert(LL)	0.12	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.15	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.09	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR						
								Weight: 73 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-1-5 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 1-12: 2x6 SP No.2, 3-4: 2x4 SP No.2	

**REACTIONS.** (size) 4=0-3-8, 12=0-1-8  
 Max Horz 12=-225(LC 8)  
 Max Uplift 4=-32(LC 12), 12=-32(LC 13)  
 Max Grav 4=585(LC 19), 12=594(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 10-12=-579/132, 1-10=-514/140, 1-2=-605/116, 2-3=-656/136, 4-6=-557/113, 3-6=-516/141  
 BOT CHORD 9-10=-51/421, 8-9=-51/421, 7-8=-51/421, 6-7=-51/421  
 WEBS 2-8=0/364

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-6-4 to 3-6-4, Interior(1) 3-6-4 to 7-0-0, Exterior(2) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 13-10-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* 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.
  - 5) Bearing at joint(s) 12 considers parallel to grain value using ANSITPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 12.



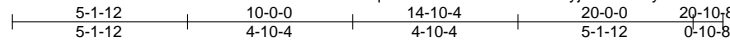
Job COASTROOF130	Truss G01	Truss Type COMMON	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695834
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:57 2021 Page 1

ID:hwqUHvzvaaVU85LTwHdxeyYfjRC1-EPLyTNKEaRupSHCI6HMR3\_Yb12hTEz\_r6mbvPzoC?0



4x6 =

Scale = 1:67.7

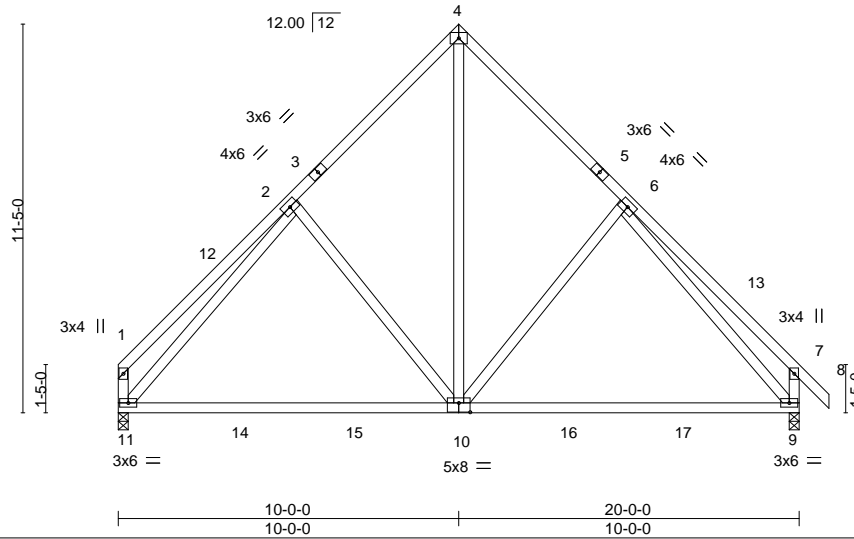


Plate Offsets (X,Y)-- [10:0-4-0,0-3-4]

<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 0.32	Vert(LL)	-0.21	10-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.40	9-10	>598		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.02	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.01	10	>999		
								Weight: 138 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
1-11,7-9: 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

**REACTIONS.** (size) 11=0-3-8, 9=0-3-8  
Max Horz 11=-310(LC 8)  
Max Uplift 11=-24(LC 12), 9=-45(LC 13)  
Max Grav 11=814(LC 20), 9=855(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-11=-322/143, 1-2=-350/143, 2-4=-687/229, 4-6=-686/225, 6-7=-386/207, 7-9=-411/216  
BOT CHORD 10-11=-120/653, 9-10=0/535  
WEBS 4-10=-184/643, 6-10=-274/243, 6-9=-597/22, 2-10=-278/244, 2-11=-607/45

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-0-0, Exterior(2) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 20-10-8 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
  - 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 100 lb uplift at joint(s) 11, 9.



February 5, 2021

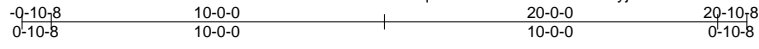
Job COASTROOF130	Truss G01G	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695835
---------------------	---------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:51:59 2021 Page 1

ID:hwqUHZvaaVU85LTwHdxeyfjRC1-BoTiu3MU628XhbMgDiOv8PezGrYSi0f8Z9Gi\_HzoC?\_



3x6 =

Scale = 1:69.1

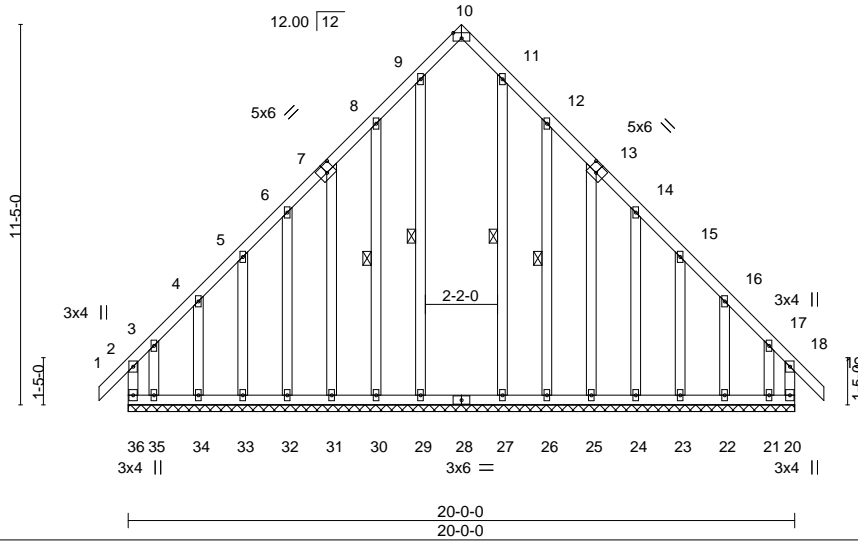


Plate Offsets (X,Y)--	[7:0-3-0,0-3-0], [10:0-3-0,Edge], [13:0-3-0,0-3-0]
-----------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.00	19	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	-0.00	19	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.11	Horz(CT)	-0.03	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 196 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 9-29, 8-30, 11-27, 12-26
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 20-0-0.  
 (lb) - Max Horz 36=-319(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 10, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22 except 36=-420(LC 8), 20=-350(LC 9), 35=-375(LC 9), 21=-324(LC 8)  
 Max Grav All reactions 250 lb or less at joint(s) 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22 except 36=461(LC 11), 10=510(LC 13), 20=389(LC 8), 35=409(LC 10), 21=355(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-36=-279/264, 2-3=-289/288, 6-7=-191/272, 7-8=-249/333, 8-9=-317/412, 9-10=-362/470, 10-11=-362/470, 11-12=-316/412, 12-13=-251/334, 13-14=-190/262

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-4, Exterior(2) 2-1-4 to 10-0-0, Corner(3) 10-0-0 to 13-0-0, Exterior(2) 13-0-0 to 20-10-8 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) 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) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 7) Gable studs spaced at 1-4-0 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 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.
  - 10) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22 except (jt=lb) 36=420, 20=350, 35=375, 21=324.



February 5, 2021

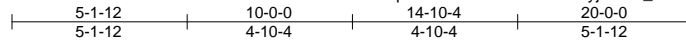
Job COASTROOF130	Truss G02	Truss Type COMMON	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695836
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:00 2021 Page 1

ID:hwqUHvzvaaVU85LTwHdxeyfjRC1-f\_145PN7tMGOJlwnPv8gcA6HFJARKhlop?FVkzoC\_z



4x6 =

Scale = 1:67.7

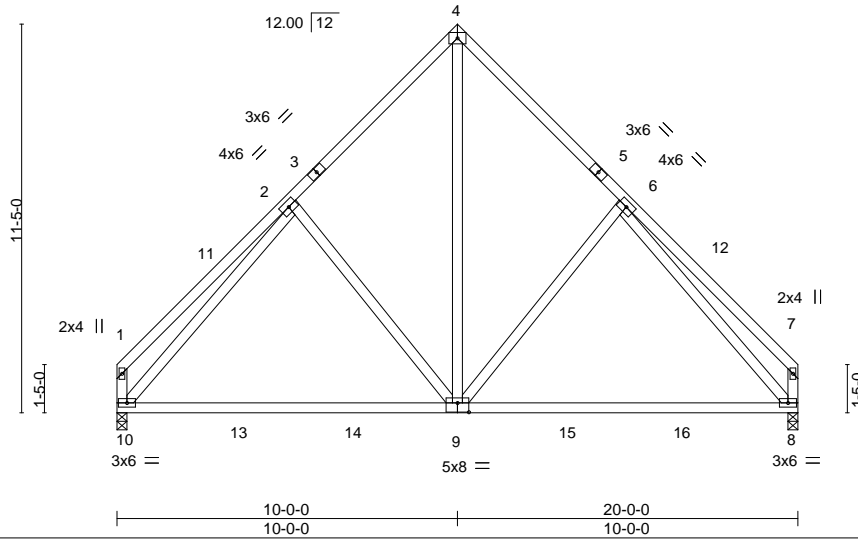


Plate Offsets (X,Y)-- [9:0-4-0,0-3-4]

<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 0.32	Vert(LL)	-0.21	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.40	9-10	>598		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.02	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.01	9	>999		
								Weight: 136 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
1-10,7-8: 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

**REACTIONS.** (size) 10=0-3-8, 8=0-3-8  
Max Horz 10=293(LC 9)  
Max Uplift 10=-23(LC 12), 8=-23(LC 13)  
Max Grav 10=815(LC 20), 8=815(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-10=-322/143, 1-2=-350/143, 2-4=-689/229, 4-6=-689/229, 6-7=-350/143, 7-8=-322/143  
BOT CHORD 9-10=-130/642, 8-9=-45/527  
WEBS 4-9=-185/646, 6-9=-278/244, 6-8=-608/44, 2-9=-278/244, 2-10=-608/44

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-0-0, Exterior(2) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 19-10-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8.



February 5, 2021

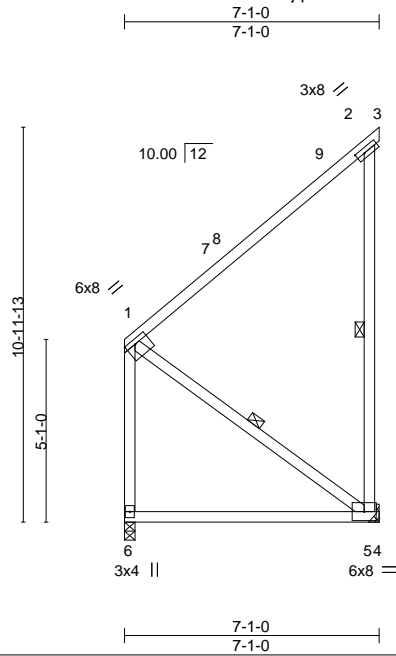


Job COASTROOF130	Truss H01	Truss Type MONO TRUSS	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695837
---------------------	--------------	--------------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:01 2021 Page 1

ID:jqCdRHblruLU73I5XDfb5zc7xm-7AbSIIolefOFwV3L7QNdqj9PFBQAuoR1Tp1AzoC\_y



Scale: 3/16"=1'

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.08	5-6	>994	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.15	5-6	>516	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) -0.08	5-6	>999	240	Weight: 58 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-11-2 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-5: 2x4 SP No.3	WEBS 1 Row at midpt 2-5, 1-5

**REACTIONS.** (size) 6=0-3-8, 5=Mechanical  
 Max Horz 6=397(LC 9)  
 Max Uplift 6=-130(LC 8), 5=-309(LC 9)  
 Max Grav 6=443(LC 20), 5=446(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-324/311, 2-5=-352/280, 1-6=-424/306  
 BOT CHORD 5-6=-595/604  
 WEBS 1-5=-546/566

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-1-0 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
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* 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.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=130, 5=309.



February 5, 2021

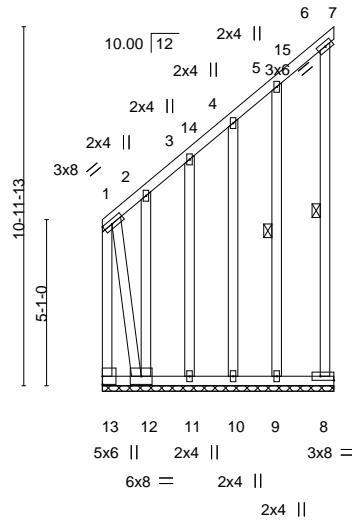
Job COASTROOF130	Truss H01G	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695838 Job Reference (optional)
---------------------	---------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:02 2021 Page 1

ID:jqCdRHbllruLU73f5XDfb5zc7xm-bN9rW5ONPzW5Y34Fvqxcm1FJZ3XQvBTaF7UMaczoC\_x  
7-1-0  
7-1-0

Scale = 1:70.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.91	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.37	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.87	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.10 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 97 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.2 *Except* 1-12: 2x4 SP No.3	WEBS 7-9-8 oc bracing: 12-13. 1 Row at midpt 6-8, 5-9
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 7-1-0.  
(lb) - Max Horz 13=398(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 11, 10, 9 except 13=877(LC 10), 7=-119(LC 8), 8=-309(LC 11), 12=-1069(LC 9)  
Max Grav All reactions 250 lb or less at joint(s) 7, 11, 10, 9 except 13=1233(LC 9), 8=262(LC 8), 12=880(LC 10)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-381/392, 2-3=-394/405, 3-4=-313/328, 4-5=-275/295, 1-13=-1901/1872  
BOT CHORD 12-13=-546/557  
WEBS 1-12=-1735/1756

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-1-0 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
  - 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) Gable requires continuous bottom chord bearing.
  - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 5) Gable studs spaced at 1-4-0 oc.
  - 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 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.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 10, 9 except (jt=lb) 13=877, 7=119, 8=309, 12=1069.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job COASTROOF130	Truss P01	Truss Type MONO TRUSS	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695839
---------------------	--------------	--------------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:02 2021 Page 1

ID:hwqUHZvaaVU85LTwHdxeyfjyRC1-bN9rW5ONPzW5Y34Fvqxcn1FOS3WbvO4aF7UMaczoC\_x  
7-0-0  
7-0-0

-0-10-8  
0-10-8

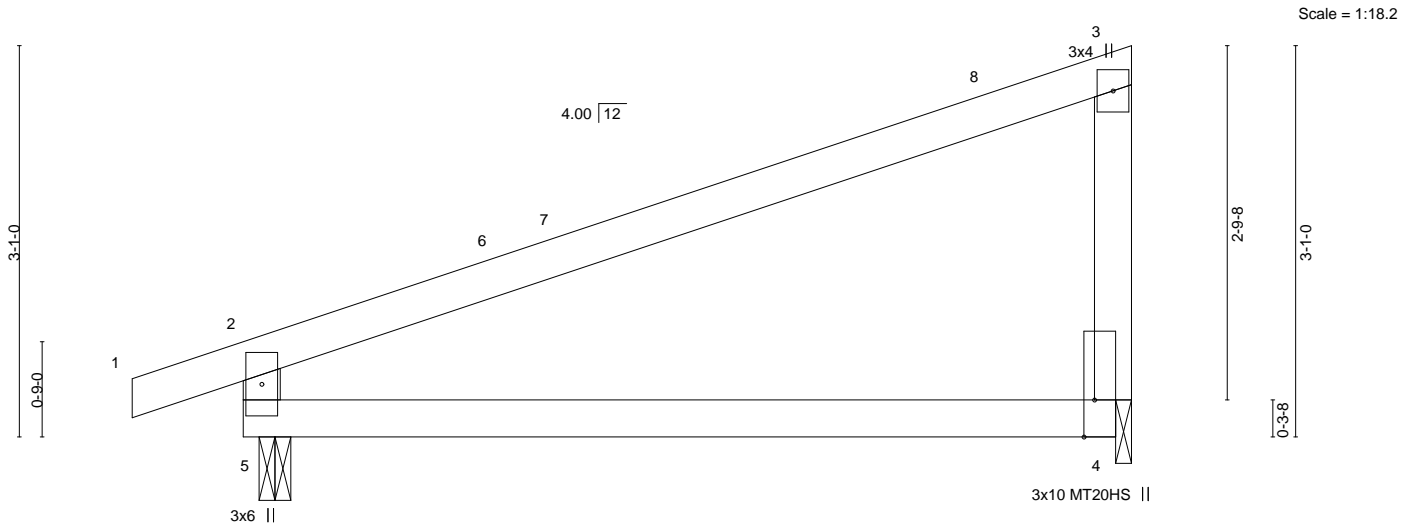


Plate Offsets (X,Y)-- [4:0-3-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.07	4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.15	4-5	>524	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR	Wind(LL)	0.16	4-5	>508	240		
									Weight: 27 lb	FT = 20%

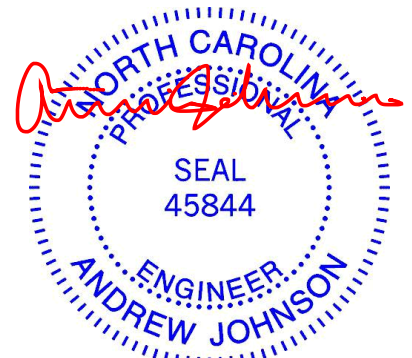
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.2

**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.** (size) 5=0-3-0, 4=0-1-8  
Max Horz 5=122(LC 9)  
Max Uplift 5=-149(LC 8), 4=-121(LC 8)  
Max Grav 5=334(LC 1), 4=264(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-5=-285/184

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* 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.
  - 5) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=149, 4=121.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job COASTROOF130	Truss P01G	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695840 Job Reference (optional)
---------------------	---------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:03 2021 Page 1

ID:hwqUHvvaVU85LTwHdxeyfjRC1-3ZjDjRP?AHeyACfRSYTrIEoh?Sy1ervkUnEv63zoC\_w



Scale = 1:14.9

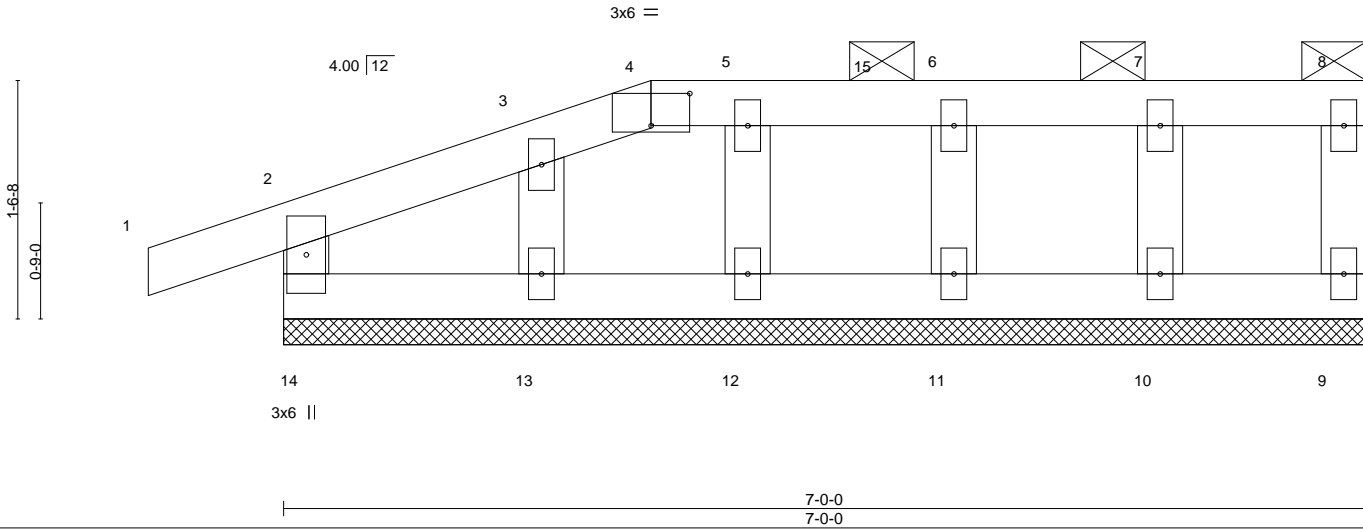


Plate Offsets (X,Y)--	[4:0-3-0,0-2-8]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	-0.00	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 30 lb	FT = 20%

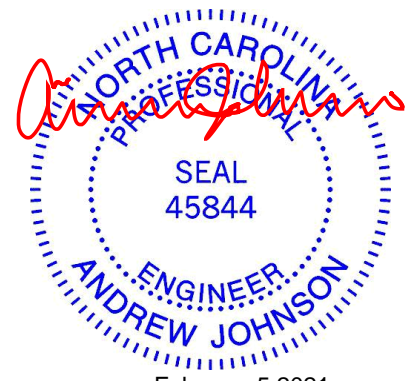
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 7-0-0.  
(lb) - Max Horz 14=58(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 14, 9, 10, 11, 12, 13  
Max Grav All reactions 250 lb or less at joint(s) 14, 9, 10, 11, 12, 13

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-4-8, Exterior(2) 2-4-8 to 6-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch 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) Provide adequate drainage to prevent water ponding.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 7) Gable studs spaced at 1-4-0 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 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.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 9, 10, 11, 12, 13.
  - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



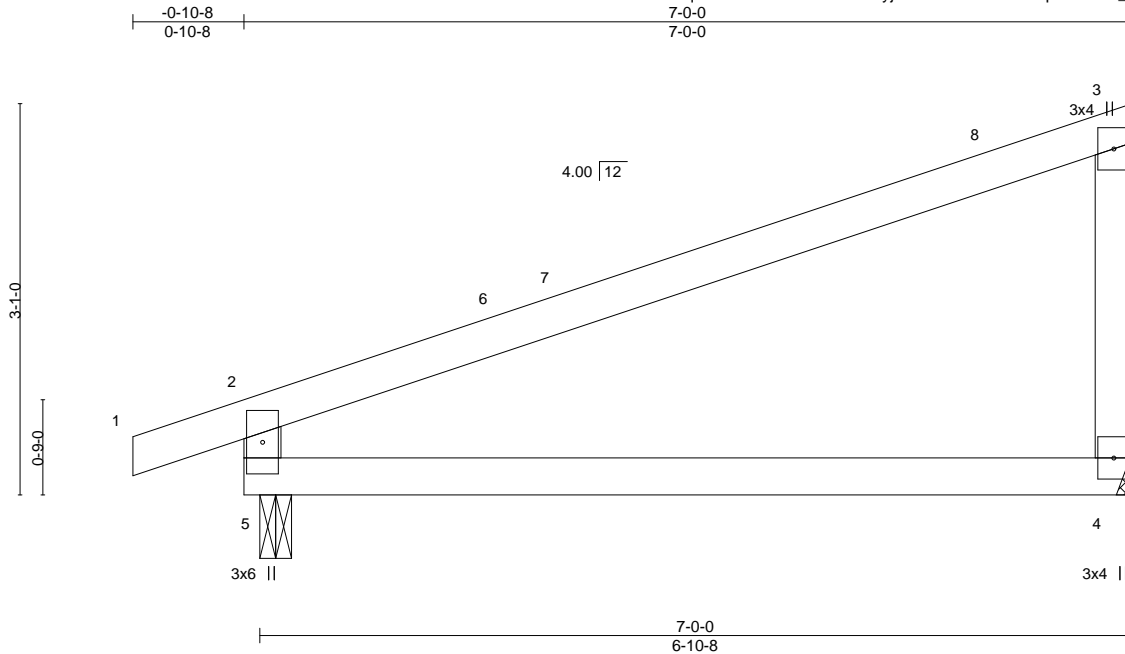
Job COASTROOF130	Truss P02	Truss Type MONO TRUSS	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695841 Job Reference (optional)
---------------------	--------------	--------------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:04 2021 Page 1

ID:hwqUHzvaaVU85LTwHdxeyfjRC1-XIGbxnQdwampoMEe0F\_4rSLkxsC3NlatjRzTeVzoC\_v  
7-0-0  
7-0-0



Scale = 1:18.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.07 4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.15 4-5	>524	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR	Wind(LL)	0.16 4-5	>508	240		
								Weight: 27 lb	FT = 20%

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

**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.** (size) 5=0-3-0, 4=Mechanical  
Max Horz 5=122(LC 9)  
Max Uplift 5=-149(LC 8), 4=-121(LC 8)  
Max Grav 5=334(LC 1), 4=264(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-5=-285/184

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=149, 4=121.



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

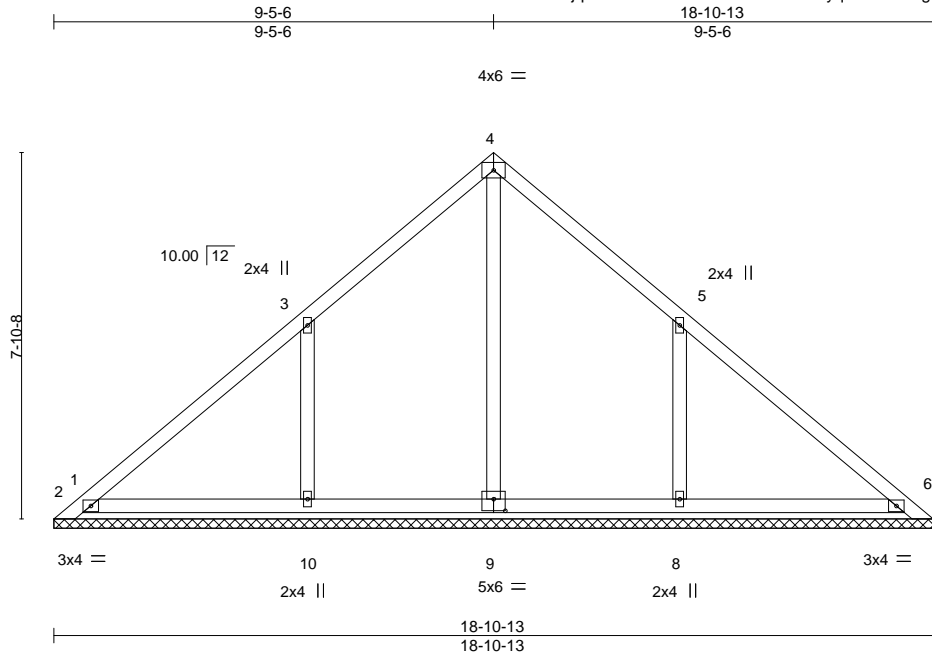
Job COASTROOF130	Truss PB02	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695842 Job Reference (optional)
---------------------	---------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:05 2021 Page 1

ID:jqCdRHblrruLU73l5XDfb5zc7xm-?yqz86RFhuugPWpqazVJNftzeGbo6j71x5j0AxzoC\_u



Scale = 1:49.5

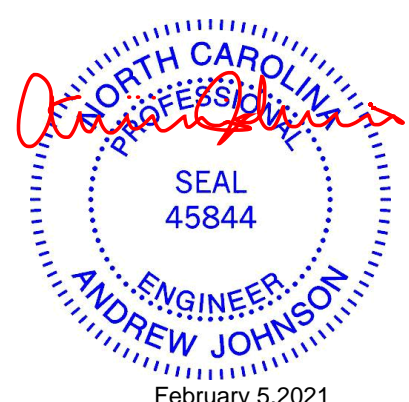
Plate Offsets (X,Y)--	[9:0-3-0,0-3-0]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.34	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S					Weight: 85 lb	FT = 20%
	Code IRC2015/TPI2014							

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

**REACTIONS.** All bearings 18-10-13.  
 (lb) - Max Horz 1=-194(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) except 1=-429(LC 19), 7=-326(LC 20), 2=-270(LC 12), 10=-206(LC 12), 8=-205(LC 13), 6=-203(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 7 except 1=306(LC 12), 2=611(LC 19), 9=374(LC 22), 10=481(LC 19), 8=481(LC 20), 6=550(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-287/385  
 WEBS 3-10=-341/262, 5-8=-341/261

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 3-2-12, Exterior(2) 3-2-12 to 9-5-6, Corner(3) 9-5-6 to 12-5-6, Exterior(2) 12-5-6 to 18-8-1 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
  - 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) Gable requires continuous bottom chord bearing.
  - 5) Gable studs spaced at 4-0-0 oc.
  - 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 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.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 429 lb uplift at joint 1, 326 lb uplift at joint 7, 270 lb uplift at joint 2, 206 lb uplift at joint 10, 205 lb uplift at joint 8 and 203 lb uplift at joint 6.
  - 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 5, 2021

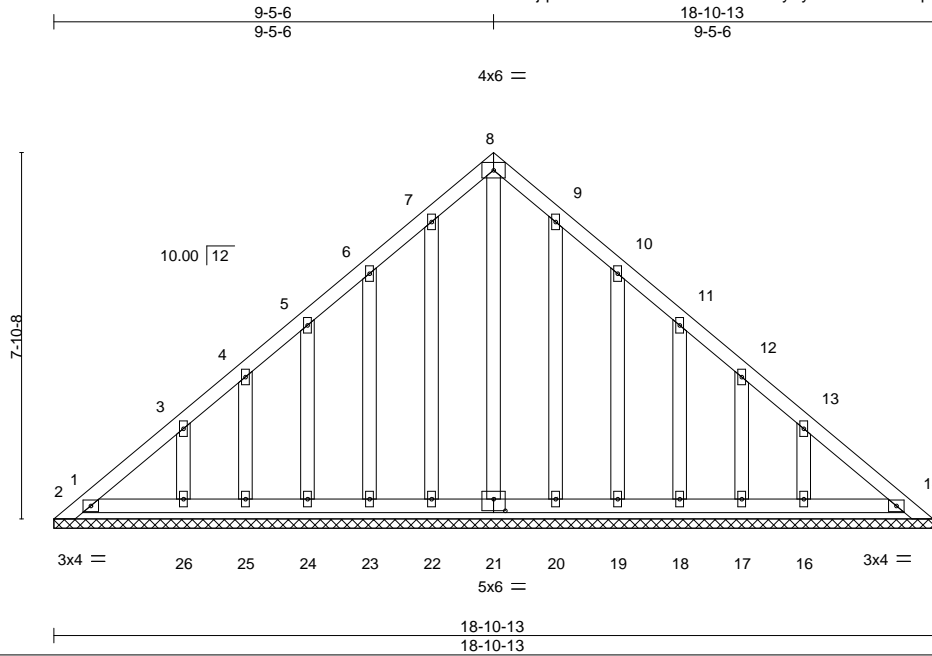
Job COASTROOF130	Truss PB02G	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695843
---------------------	----------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:07 2021 Page 1

ID:jqCdRHblruLU73I5XDfb5zc7xm-yKykZoSWDV9OfqzDhNXnT4zNC4KkadrKPPC7FqzoC\_s



Scale = 1:49.5

Plate Offsets (X,Y)--	[21:0-3-0,0-3-0]				
<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 0.08	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.16	Horz(CT) 0.00 14 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 131 lb	FT = 20%

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

**REACTIONS.** All bearings 18-10-13.  
 (lb) - Max Horz 1=194(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 15, 2, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16 except 1=-172(LC 10)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 15, 2, 21, 22, 14, 23, 24, 25, 26, 20, 19, 18, 17, 16

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-247/268

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 3-2-12, Exterior(2) 3-2-12 to 9-5-6, Corner(3) 9-5-6 to 12-5-6, Exterior(2) 12-5-6 to 18-8-1 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
  - 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) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) Gable studs spaced at 1-4-0 oc.
  - 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) 15, 2, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16 except (jt=lb) 1=172.
  - 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 5, 2021

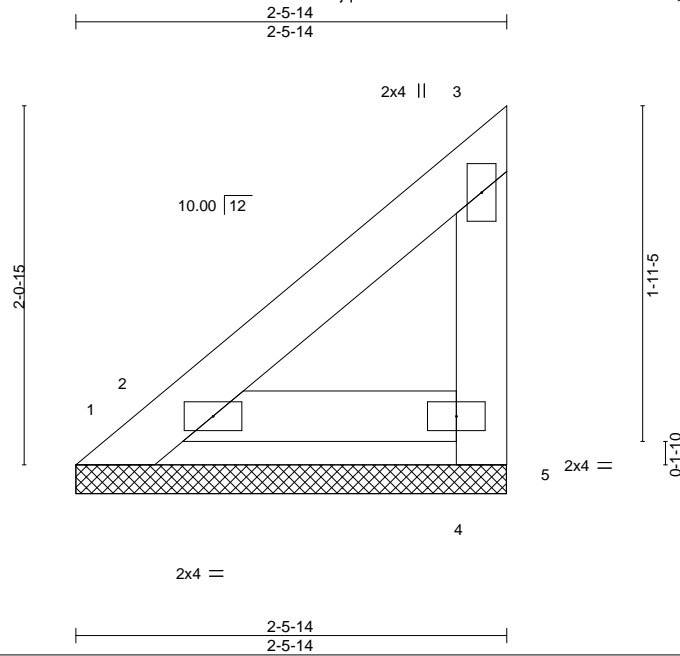
Job COASTROOF130	Truss PB03	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695844 Job Reference (optional)
---------------------	---------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:08 2021 Page 1

ID:jqCdRHblrrLU73I5XDfb5zc7xm-QXW6m8T8\_pHFG\_YPF520?IVY4Tf1J6ZTe2ygnGzoC\_r



Scale = 1:13.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-P					Weight: 10 lb	FT = 20%
	Code IRC2015/TPI2014							

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 2-5-14 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

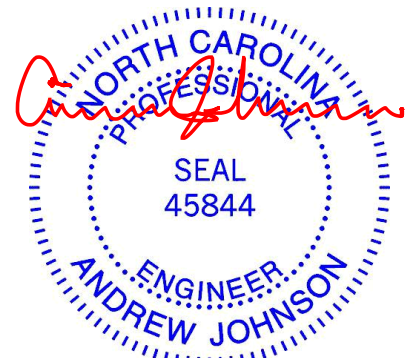
**REACTIONS.**

(size) 1=2-5-14, 5=2-5-14, 2=2-5-14, 4=2-5-14  
 Max Horz 1=68(LC 9)  
 Max Uplift 1=60(LC 19), 2=-79(LC 12), 4=-18(LC 9)  
 Max Grav 1=68(LC 9), 2=164(LC 19), 4=68(LC 19)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 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
- 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) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4-0-0 oc.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1, 5, 2, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 4.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932



Job COASTROOF130	Truss V01	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695845
---------------------	--------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:09 2021 Page 1  
ID:hwqUHZvaaVU85LTwHdxexYfyjRC1-uj4U\_UUm17P6u76bpoZFYV2iZtzq2Y?csihEJizoC\_q



3x6 =

Scale = 1:82.2

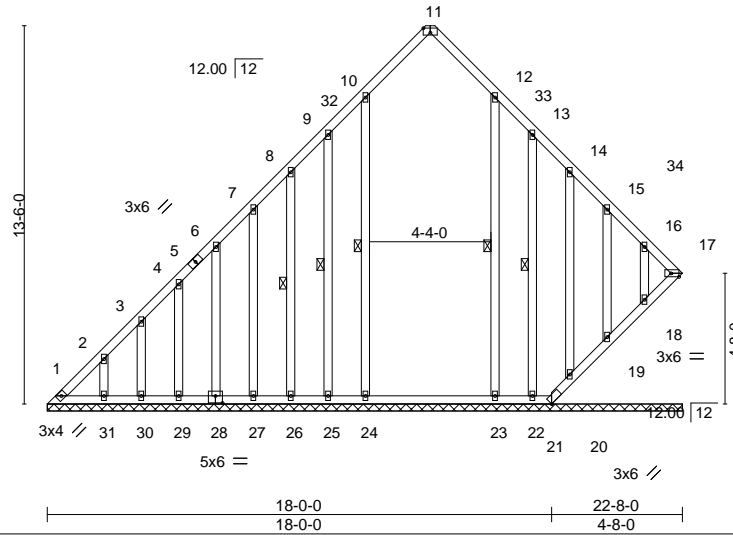


Plate Offsets (X,Y)-- [11:0-3-0,Edge], [17:0-3-7,Edge], [28:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01	17	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 208 lb	FT = 20%

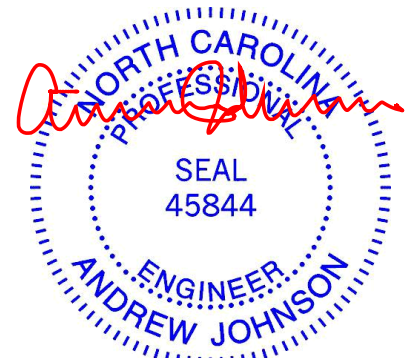
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**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.  
WEBS 1 Row at midpt 10-24, 9-25, 8-26, 12-23, 13-22

**REACTIONS.** All bearings 22-8-0.  
(lb) - Max Horz 1=326(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 24, 25, 26, 27, 28, 29, 30, 31, 23, 20, 19, 18 except 17=161(LC 11), 1=116(LC 10), 21=269(LC 13), 22=114(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 21, 25, 26, 27, 28, 29, 30, 31, 22, 20, 19, 18 except 17=517(LC 13), 1=414(LC 12), 24=349(LC 19), 23=350(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=601/407, 2-3=510/330, 3-4=440/277, 4-6=365/218, 6-7=291/160, 15-16=288/160, 16-17=360/218  
BOT CHORD 1-31=162/271, 30-31=162/271, 29-30=162/271, 28-29=162/271, 27-28=162/271, 26-27=162/271, 25-26=162/271, 24-25=162/271, 23-24=162/271, 22-23=162/271, 21-22=162/271, 20-21=240/399, 19-20=239/390, 18-19=238/388, 17-18=241/389

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 13-8-0, Exterior(2) 13-8-0 to 16-8-0, Interior(1) 16-8-0 to 22-5-8 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
  - All plates are 2x4 MT20 unless otherwise indicated.
  - 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 100 lb uplift at joint(s) 24, 25, 26, 27, 28, 29, 30, 31, 23, 20, 19, 18 except (jt=lb) 17=161, 1=116, 21=269, 22=114.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 17, 20, 19, 18.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

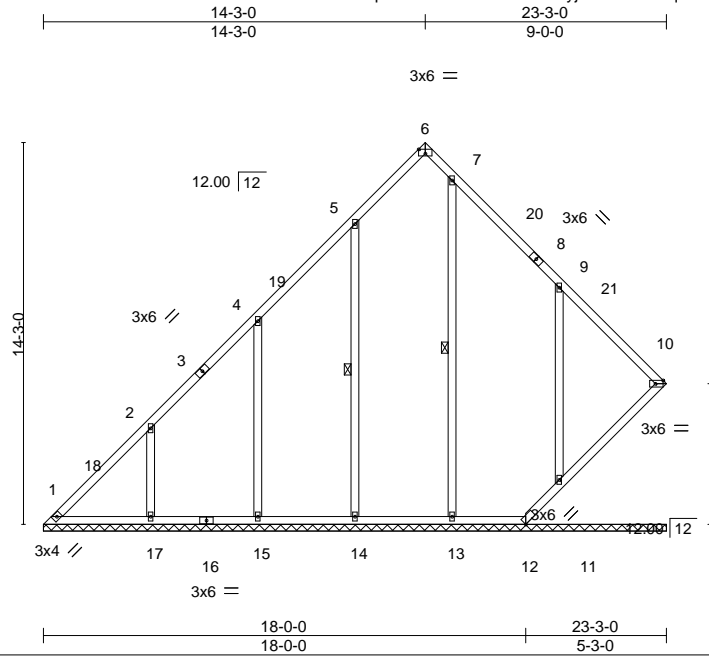
Job COASTROOF130	Truss V02	Truss Type VALLEY	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695846
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:10 2021 Page 1

ID:hwqUHZvaaVU85LTwHdxeyYfjRC1-MvesBqUOWQXzWWhnNW5U4jbo9HHTnwrms5MRns9zoC\_p



Scale = 1:86.0

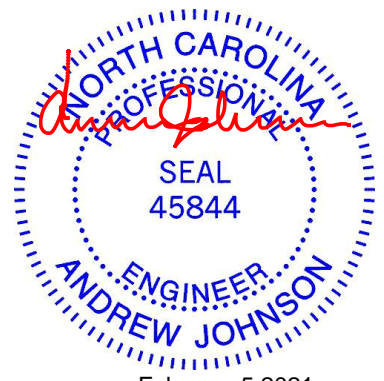
Plate Offsets (X,Y)--	[6:0-3-0,Edge], [10:0-3-7,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.02 10 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S		Weight: 149 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
OTHERS 2x4 SP No.3 *Except*	6-0-0 oc bracing: 10-11.
7-13: 2x4 SP No.2	WEBS 1 Row at midpt 5-14, 7-13

<b>REACTIONS.</b>	All bearings 23-3-0.
(lb) - Max Horz	1=350(LC 12)
Max Uplift	All uplift 100 lb or less at joint(s) 1, 13 except 12=295(LC 13), 10=153(LC 11), 14=157(LC 12), 11=260(LC 13), 17=235(LC 12), 15=216(LC 12)
Max Grav	All reactions 250 lb or less at joint(s) 12 except 1=403(LC 12), 10=518(LC 13), 14=421(LC 19), 11=408(LC 20), 13=342(LC 20), 17=455(LC 19), 15=468(LC 19)

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-606/470, 2-4=-380/285, 9-10=-347/249
BOT CHORD	1-17=-200/297, 15-17=-200/297, 14-15=-200/297, 13-14=-200/297, 12-13=-200/297, 11-12=-277/439, 10-11=-320/440
WEBS	9-11=-373/304, 2-17=-341/276, 4-15=-321/263

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 14-3-0, Exterior(2) 14-3-0 to 17-3-0, Interior(1) 17-3-0 to 23-0-8 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
  - All plates are 2x4 MT20 unless otherwise indicated.
  - 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 100 lb uplift at joint(s) 1, 13 except (jt=lb) 12=295, 10=153, 14=157, 11=260, 17=235, 15=216.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 11.



February 5, 2021

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
--	---

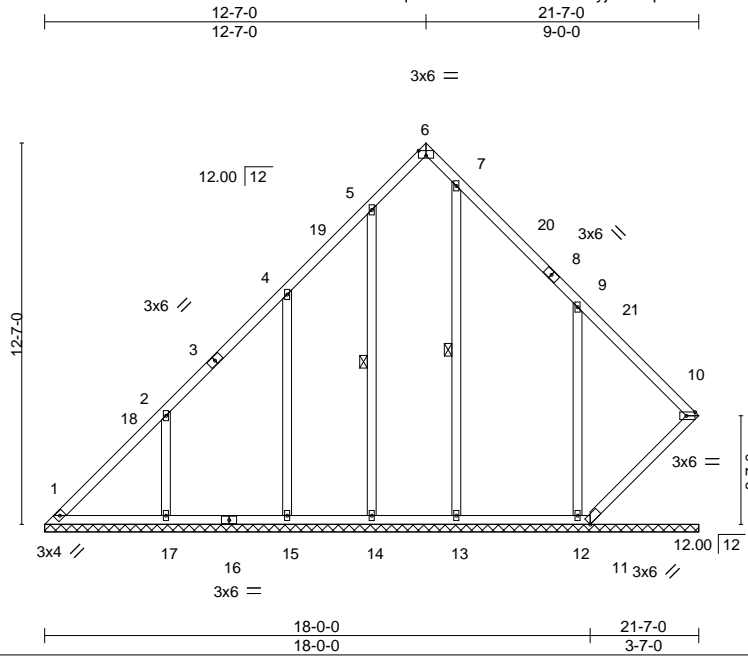
Job COASTROOF130	Truss V03	Truss Type VALLEY	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695847
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:11 2021 Page 1

ID:hwqUHZvaaVU85LTwHdxeyfjRC1-q5BEPAV0Hkfq7RG\_wDckdw7z0hd8WOObvK0ALObzoC\_o



Scale = 1:76.0

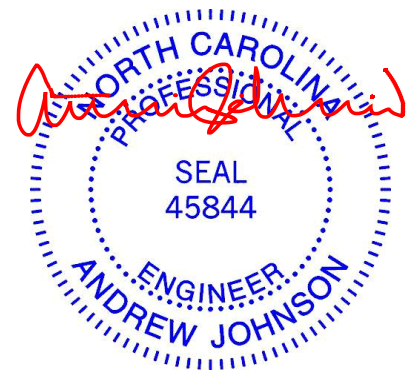
Plate Offsets (X,Y)--	[6:0-3-0,Edge], [10:0-3-7,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.26	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.37	Horz(CT) 0.01 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 137 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
OTHERS 2x4 SP No.3	6-0-0 oc bracing: 10-11.
	WEBS 1 Row at midpt 5-14, 7-13

**REACTIONS.** All bearings 21-7-0.  
 (lb) - Max Horz 1=298(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 14, 13 except 11=313(LC 13), 10=150(LC 11), 12=245(LC 13), 17=239(LC 12), 15=199(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 11 except 1=344(LC 12), 10=518(LC 13), 14=275(LC 19), 12=536(LC 20), 13=393(LC 20), 17=462(LC 19), 15=433(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-523/409, 2-4=-294/220, 9-10=-344/260  
 BOT CHORD 1-17=-208/295, 15-17=-208/295, 14-15=-208/295, 12-13=-208/295, 11-12=-208/295, 10-11=-329/440  
 WEBS 9-12=-371/302, 2-17=-347/281, 4-15=-297/244

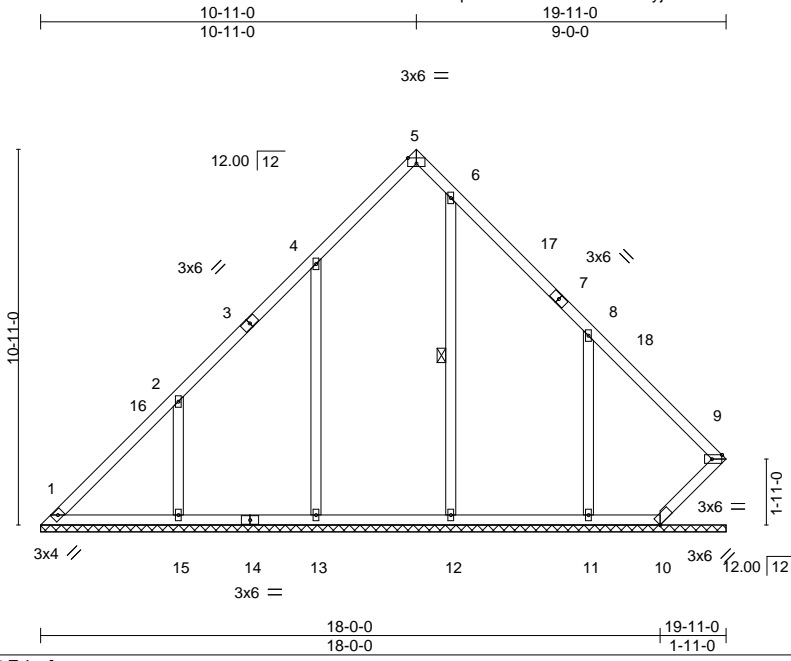
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 12-7-0, Exterior(2) 12-7-0 to 15-7-0, Interior(1) 15-7-0 to 21-4-8 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) All plates are 2x4 MT20 unless otherwise indicated.
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 14, 13 except (jt=lb) 11=313, 10=150, 12=245, 17=239, 15=199.
  - 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10.



February 5, 2021

Job COASTROOF130	Truss V04	Truss Type VALLEY	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695848
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:12 2021 Page 1  
 ID:hwqUHZvaaVU85LTwHdxeyfjRC1-llldcWwWe22nhlbrAUx7zA8g8z5z4Frb3Ygwuw1zoC\_n



Scale = 1:66.9

Plate Offsets (X,Y)--	[5:0-3-0,Edge], [9:0-3-7,Edge]
-----------------------	--------------------------------

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.01	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 110 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
OTHERS 2x4 SP No.3	6-0-0 oc bracing: 9-10.
	WEBS 1 Row at midpt 6-12

**REACTIONS.** All bearings 19-11-0.  
 (lb) - Max Horz 1=261(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 10=320(LC 13), 9=182(LC 11), 11=257(LC 13),  
 12=107(LC 13), 15=242(LC 12), 13=186(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 10 except 1=281(LC 12), 9=550(LC 13), 11=448(LC 20),  
 12=420(LC 20), 15=456(LC 19), 13=464(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-433/337, 8-9=-362/257  
 BOT CHORD 1-15=-208/308, 13-15=-208/308, 12-13=-208/308, 11-12=-208/308, 10-11=-208/308,  
 9-10=-328/463  
 WEBS 8-11=-364/300, 2-15=-351/283, 4-13=-287/235

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 10-11-0, Exterior(2) 10-11-0 to 13-11-0, Interior(1) 13-11-0 to 19-8-8 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) All plates are 2x4 MT20 unless otherwise indicated.
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 10=320, 9=182, 11=257, 12=107, 15=242, 13=186.
  - 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9.



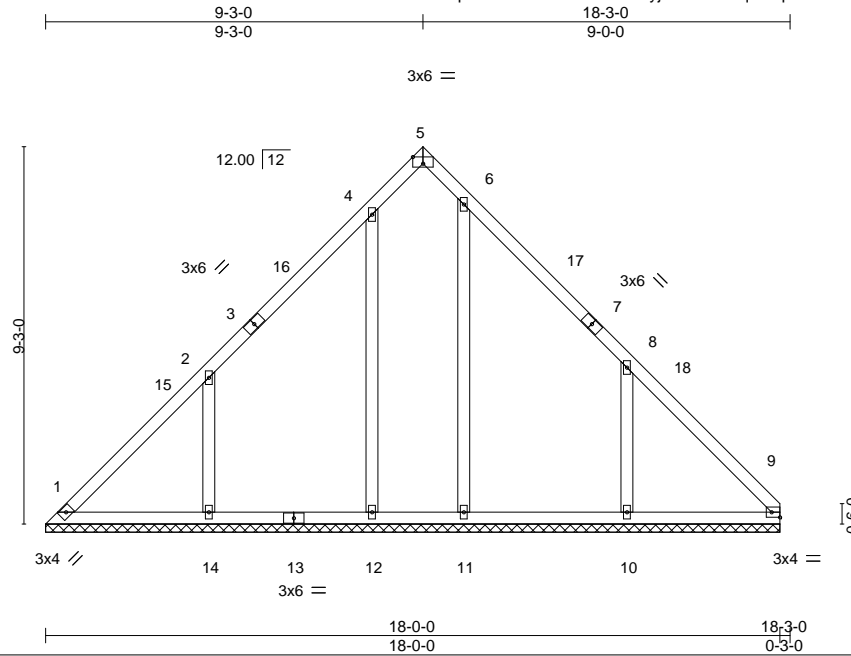
Job COASTROOF130	Truss V05	Truss Type VALLEY	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695849
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:13 2021 Page 1

ID:hwqUHZvaaVU85LTwHdxeyfjRC1-nUJ?qsXGpLVYNIQM2eeCiLDJTUK\_tImCnKfRSUzoC\_m



Scale = 1:56.5

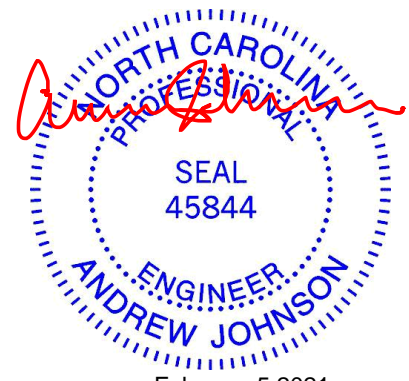
Plate Offsets (X, Y)--	[5:0-3-0,Edge], [9:Edge,0-1-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.26	Horz(CT) 0.01 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 97 lb	FT = 20%

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

**REACTIONS.** All bearings 18-0-0.  
 (lb) - Max Horz 1=224(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 10=277(LC 13), 11=113(LC 13), 14=247(LC 12), 12=138(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 1 except 10=480(LC 20), 11=335(LC 20), 14=472(LC 19), 12=347(LC 19), 9=254(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-382/316, 8-9=-381/323  
 BOT CHORD 1-14=-247/313, 12-14=-247/313, 11-12=-247/313, 10-11=-247/313, 9-10=-247/313  
 WEBS 8-10=-379/318, 2-14=-359/291

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 9-3-0, Exterior(2) 9-3-0 to 12-3-0, Interior(1) 12-3-0 to 17-10-4 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) All plates are 2x4 MT20 unless otherwise indicated.
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 10=277, 11=113, 14=247, 12=138.



February 5, 2021

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY  <b>TRENCO</b>  <small>A MiTek Affiliate</small></p> <p>818 Soundside Road        Edenton, NC 27932</p>
--	---

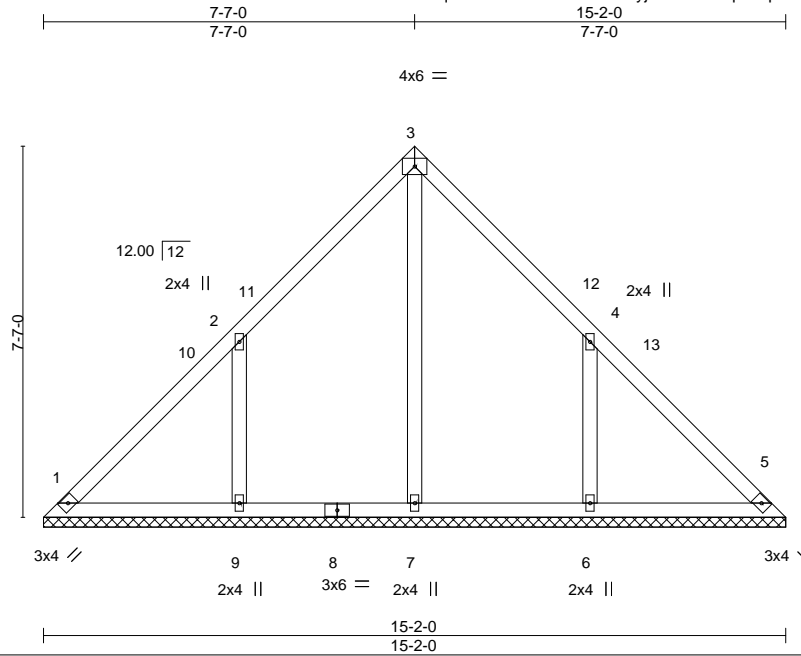
Job COASTROOF130	Truss V06	Truss Type VALLEY	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695850
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:13 2021 Page 1

ID:hwqUHvZvaaVU85LTwHdxeyfjyRC1-nUJ?qsXGpLvYNIQM2eeCiLDKoUKs\_KaCnKfRSUzoC\_m  
15-2-0  
7-7-0



Scale = 1:47.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
BCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 74 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.3  
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.** All bearings 15-2-0.  
(lb) - Max Horz 1=182(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 1 except 6=240(LC 13), 9=241(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=332(LC 22), 6=444(LC 20), 9=444(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 4-6=-344/278, 2-9=-344/279

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 7-7-0, Exterior(2) 7-7-0 to 10-7-0, Interior(1) 10-7-0 to 14-9-12 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
- 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 100 lb uplift at joint(s) 1 except (jt=lb) 6=240, 9=241.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

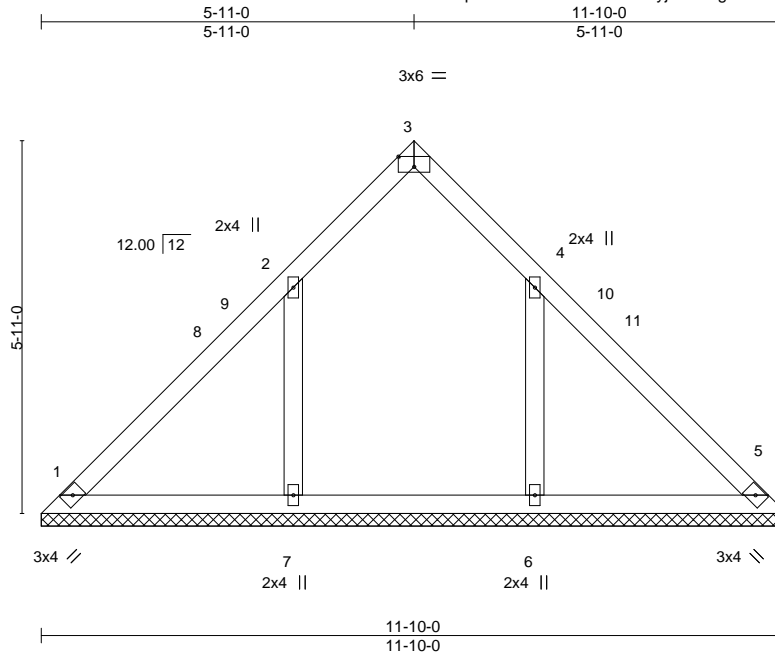
Job COASTROOF130	Truss V07	Truss Type VALLEY	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695851
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:14 2021 Page 1

ID:hwqUHZvaaVU85LTwHdxeyfjRC1-FgtN1BYvaf1P\_v?ZcM9RFZIW3ufhjopL0\_P??wzoC\_I



Scale = 1:36.6

Plate Offsets (X, Y)--		[3:0-3-0, 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 0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 51 lb	FT = 20%

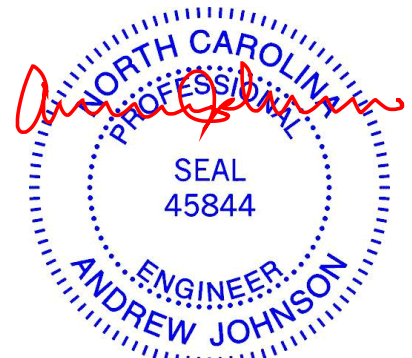
**LUMBER-**  
 TOP CHORD 2x4 SP No.3  
 BOT CHORD 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**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.** All bearings 11-10-0.  
 (lb) - Max Horz 1=140(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) except 6=190(LC 13), 7=192(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=410(LC 20), 7=412(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 4-6=-295/228, 2-7=-295/230

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 5-11-0, Exterior(2) 5-11-0 to 8-11-0, Interior(1) 8-11-0 to 11-5-12 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
  - 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 190 lb uplift at joint 6 and 192 lb uplift at joint 7.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



818 Soundside Road  
 Edenton, NC 27932

Job COASTROOF130	Truss V08	Truss Type VALLEY	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695852
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

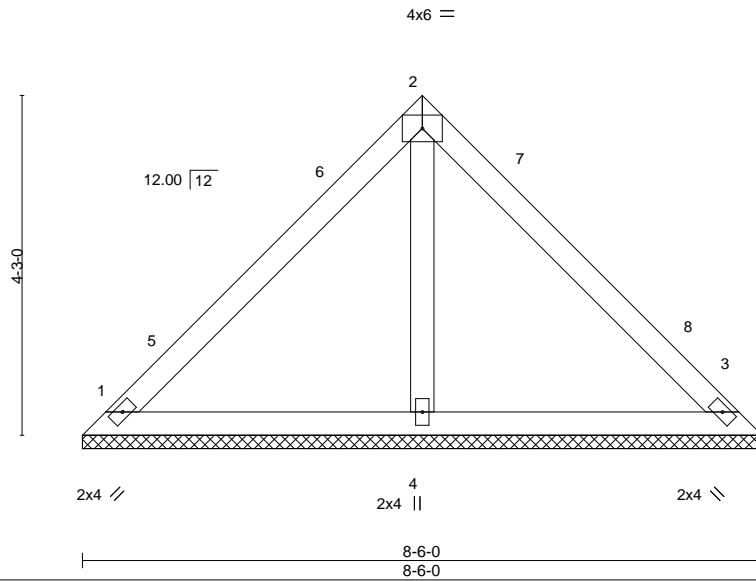
Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:15 2021 Page 1

ID:hwqUHZvaaVU85LTwHdxeyfjRC1-jtRiEXYXLz9Fc2aI93ggnlguI\_6SGUVFe8YXMzoc\_k



Scale = 1:28.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 35 lb	FT = 20%
	Code IRC2015/TPI2014							

**LUMBER-**  
 TOP CHORD 2x4 SP No.3  
 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.** (size) 1=8-6-0, 3=8-6-0, 4=8-6-0  
 Max Horz 1=-98(LC 8)  
 Max Uplift 1=-35(LC 13), 3=-35(LC 13), 4=-6(LC 12)  
 Max Grav 1=173(LC 1), 3=173(LC 1), 4=278(LC 1)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 4-3-0, Exterior(2) 4-3-0 to 7-3-0, Interior(1) 7-3-0 to 8-1-12 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 1, 35 lb uplift at joint 3 and 6 lb uplift at joint 4.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932



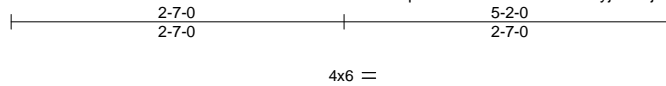
Job COASTROOF130	Truss V09	Truss Type VALLEY	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695853
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

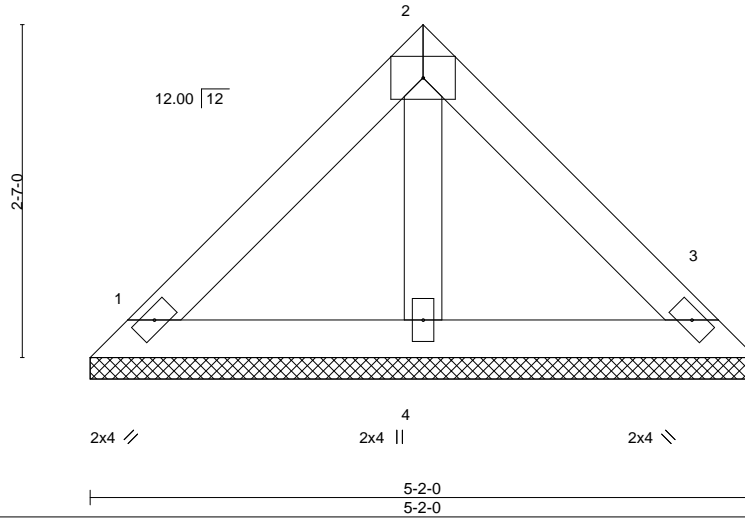
Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:15 2021 Page 1

ID:hwqUHZvaaVU85LTwHdxeYfyjRC1-jtRIEXYLz9Fc2aI93ggnmIj01sSG0VFe8YXMzoC\_k



Scale = 1:17.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 20 lb	FT = 20%

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

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

**REACTIONS.** (size) 1=5-2-0, 3=5-2-0, 4=5-2-0  
 Max Horz 1=-56(LC 8)  
 Max Uplift 1=-27(LC 13), 3=-27(LC 13)  
 Max Grav 1=107(LC 1), 3=107(LC 1), 4=144(LC 1)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 1 and 27 lb uplift at joint 3.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



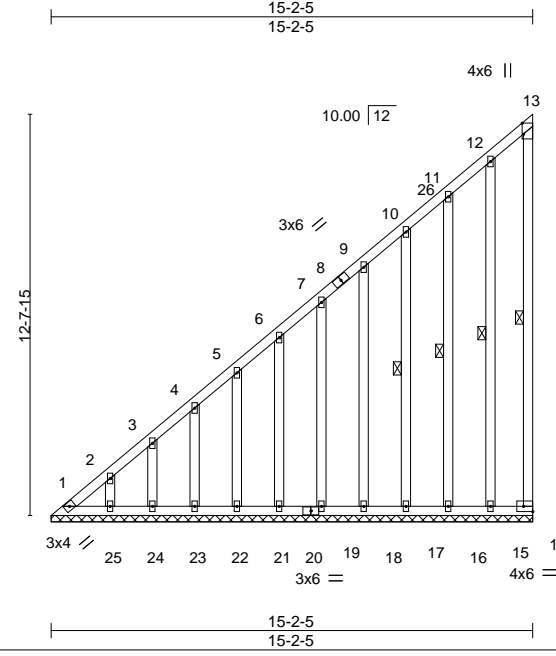
818 Soundside Road  
 Edenton, NC 27932

Job COASTROOF130	Truss V10	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695854 Job Reference (optional)
---------------------	--------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:16 2021 Page 1

ID:hwqUHZvaaVU85LTwHdxYfyjRC1-B3?7StZ96GH6EC9xjmBvK\_rpHiHIBh?eTlu63ozoC\_j



Scale = 1:72.7

Plate Offsets (X,Y)--	[13:0-4-2,Edge], [14:Edge,0-2-0]
-----------------------	----------------------------------

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	-0.00	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 158 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP SS	WEBS 1 Row at midpt 13-14, 12-15, 11-16, 10-17
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 15-2-5.  
 (lb) - Max Horz 1=469(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 16, 17, 18, 19, 21, 22, 23, 24, 25 except 14=171(LC 11), 15=109(LC 12), 1=154(LC 10)  
 Max Grav All reactions 250 lb or less at joint(s) 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25 except 1=300(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-668/673, 2-3=-618/620, 3-4=-573/577, 4-5=-528/531, 5-6=-482/486, 6-7=-436/441, 7-9=-391/396, 9-10=-345/350, 10-11=-302/309, 11-12=-251/263  
 WEBS 12-15=-259/211

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-2-5, Interior(1) 3-2-5 to 15-0-9 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
  - 2) All plates are 2x4 MT20 unless otherwise indicated.
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* 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.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 17, 18, 19, 21, 22, 23, 24, 25 except (jt=lb) 14=171, 15=109, 1=154.



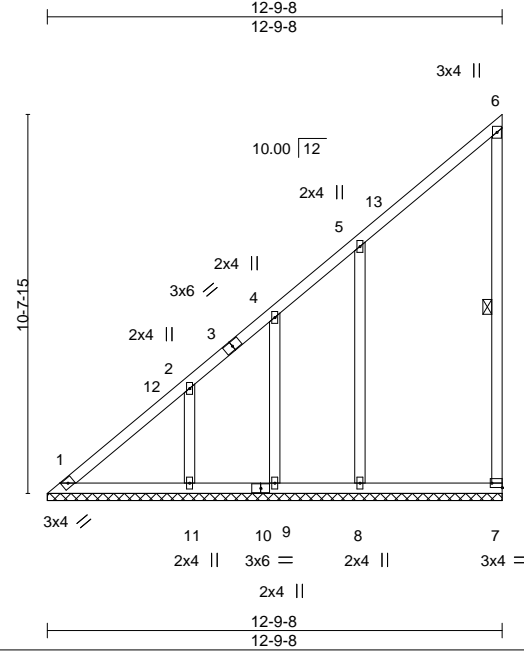
February 5, 2021

Job COASTROOF130	Truss V11	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695855
---------------------	--------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:17 2021 Page 1

ID:hwqUHvzvaaVU85LTwHdxeYfyjRC1-fZWfDansaPzrMk8HUj8sBNvs6clw6xoiydfcFzoC\_i



Scale = 1:64.8

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

<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 0.78	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) -0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 79 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-7
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 12-9-8.  
 (lb) - Max Horz 1=392(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 9 except 8=168(LC 12), 11=162(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9 except 8=457(LC 19), 11=334(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-549/553, 2-4=-420/407, 4-5=-373/382  
 WEBS 5-8=-336/231, 2-11=-272/191

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 12-7-12 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
  - 2) Gable requires continuous bottom chord bearing.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 9 except (jt=lb) 8=168, 11=162.



February 5, 2021

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b>          Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY  <b>TRENCO</b>          A MiTek Affiliate</p> <p>818 Soundside Road          Edenton, NC 27932</p>
--	--

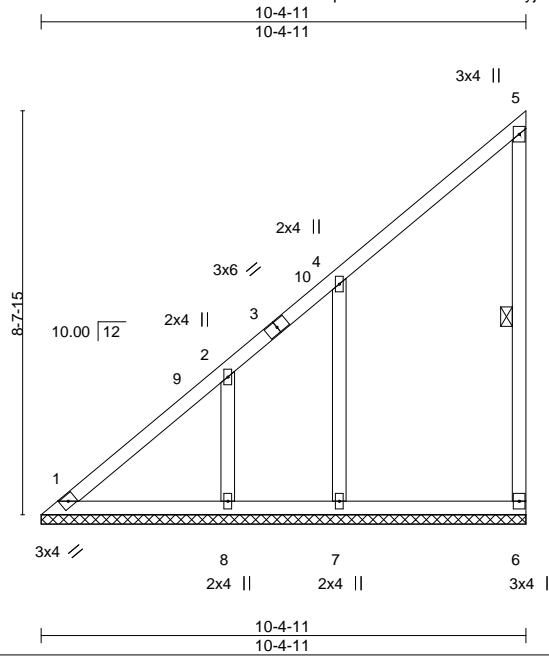
Job COASTROOF130	Truss V12	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695856
---------------------	--------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:18 2021 Page 1

ID:hwqUHZvaaVU85LTwHdxeyfjRC1-7S7utZbPduXqTWJKrBENPPw4sV?2fbwxcNC8hzoC\_h



Scale = 1:49.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 58 lb	FT = 20%

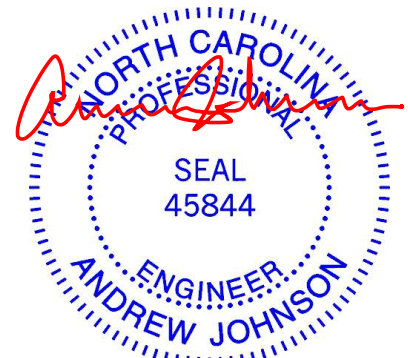
**LUMBER-**  
 TOP CHORD 2x4 SP No.3  
 BOT CHORD 2x4 SP No.3  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**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 5-6

**REACTIONS.** All bearings 10-4-11.  
 (lb) - Max Horz 1=315(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 7 except 8=-149(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 7=374(LC 19), 8=268(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-456/443, 2-4=-353/335  
 WEBS 4-7=-289/217

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 10-2-15 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
  - 2) Gable requires continuous bottom chord bearing.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 7 except (it=lb) 8=149.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

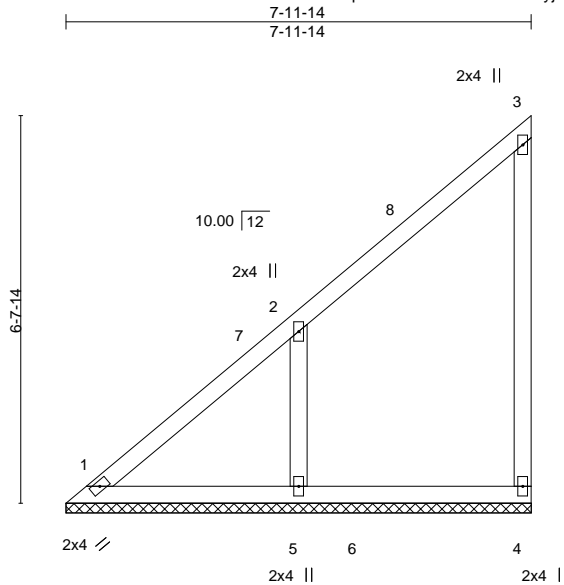
Job COASTROOF130	Truss V13	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695857
---------------------	--------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:18 2021 Page 1

ID:hwqUHvvaVU85LTwHdxeyfjRC1-7S7utZbPduXqTWJKrBENPPw9IV0sfctxcNC8hzoC\_h



Scale = 1:39.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 40 lb	FT = 20%
	Code IRC2015/TPI2014							

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

**REACTIONS.** (size) 1=7-11-14, 4=7-11-14, 5=7-11-14  
Max Horz 1=238(LC 9)  
Max Uplift 1=-28(LC 8), 4=-64(LC 9), 5=-182(LC 12)  
Max Grav 1=168(LC 20), 4=203(LC 19), 5=437(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-365/348  
WEBS 2-5=-352/254

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 7-10-2 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
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=182.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job COASTROOF130	Truss V14	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695858
---------------------	--------------	---------------------	-----------	----------	---

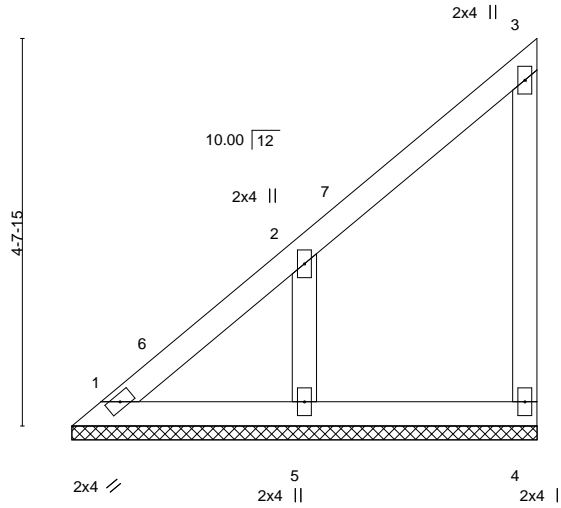
Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:19 2021 Page 1

ID:hwqUHZvaaVU85LTwHdxeyfjRC1-begG4vb1OBfh5gtWOvlycTNdvPSO4P59G6mg7zoC\_g  
5-7-2  
5-7-2

Scale = 1:27.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 27 lb	FT = 20%

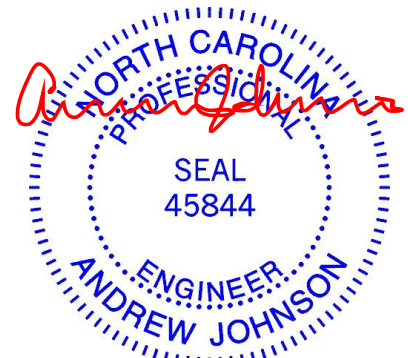
**LUMBER-**  
 TOP CHORD 2x4 SP No.3  
 BOT CHORD 2x4 SP No.3  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-7-2 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=5-7-2, 4=5-7-2, 5=5-7-2  
 Max Horz 1=161(LC 9)  
 Max Uplift 1=-21(LC 8), 4=-42(LC 9), 5=-134(LC 12)  
 Max Grav 1=113(LC 20), 4=103(LC 19), 5=277(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-269/251

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-5-6 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
  - 2) Gable requires continuous bottom chord bearing.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=134.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job COASTROOF130	Truss V15	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695859
---------------------	--------------	---------------------	-----------	----------	---

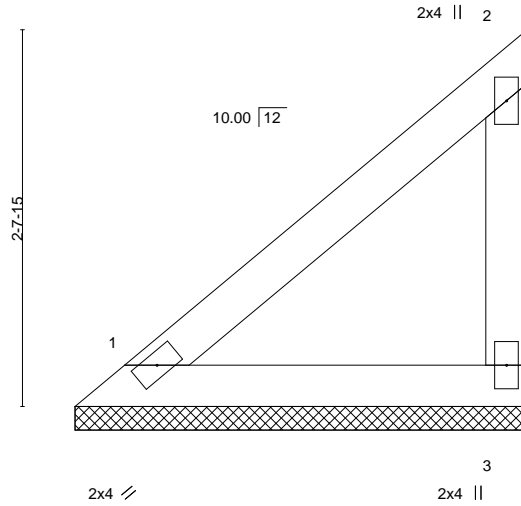
Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:19 2021 Page 1

ID:hwqUHZvaaVU85LTwHdxeyfjRC1-begG4vb1OBfh5gtWOvlycTOzvO4O4H59G6mg7zoC\_g  
3-2-5  
3-2-5

Scale = 1:16.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 13 lb	FT = 20%
	Code IRC2015/TPI2014							

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-2-5 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=3-2-5, 3=3-2-5  
Max Horz 1=85(LC 9)  
Max Uplift 1=2(LC 12), 3=39(LC 12)  
Max Grav 1=108(LC 20), 3=123(LC 19)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



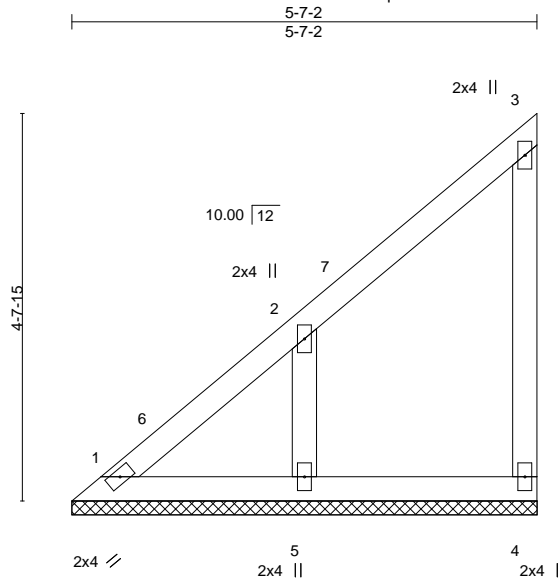
818 Soundside Road  
Edenton, NC 27932

Job COASTROOF130	Truss V16	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695860 Job Reference (optional)
---------------------	--------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:20 2021 Page 1  
ID:hwqUHZvaaVU85LTwHdxeyfjRC1-3qEelFcf9VnYiqSiycGrUq?YNJlh7XfEOwsJCazoC\_f



Scale = 1:27.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 27 lb	FT = 20%

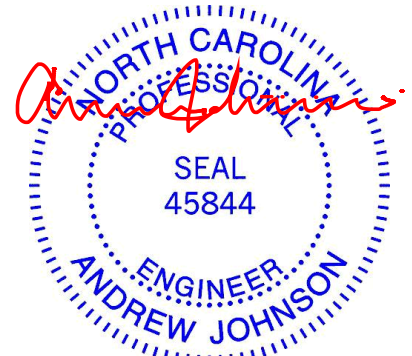
**LUMBER-**  
 TOP CHORD 2x4 SP No.3  
 BOT CHORD 2x4 SP No.3  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-7-2 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=5-7-2, 4=5-7-2, 5=5-7-2  
 Max Horz 1=161(LC 9)  
 Max Uplift 1=-21(LC 8), 4=-42(LC 9), 5=-134(LC 12)  
 Max Grav 1=113(LC 20), 4=103(LC 19), 5=277(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-269/251

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-5-6 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
  - 2) Gable requires continuous bottom chord bearing.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=134.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932



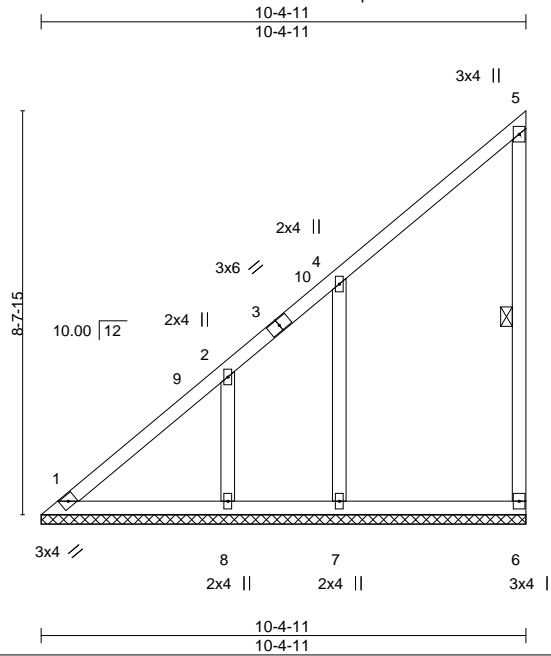


Job COASTROOF130	Truss V18	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695862 Job Reference (optional)
---------------------	--------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:21 2021 Page 1

ID:hwqUHZvaaVU85LTwHdxeyYfjRC1-Y1o0VbdlwpwPKz1vWKn411Yb6j0lsyfNdabs0zoC\_e



Scale = 1:49.4

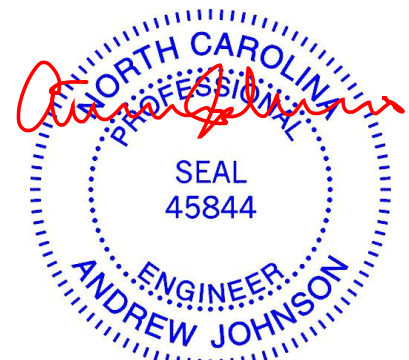
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.82	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.38	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.14	Horz(CT)	-0.00	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 58 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-6
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 10-4-11.  
 (lb) - Max Horz 1=315(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 7 except 8=-149(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 7=374(LC 19), 8=268(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-456/443, 2-4=-353/335  
 WEBS 4-7=-289/217

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 10-2-15 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
  - 2) Gable requires continuous bottom chord bearing.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 7 except (jt=lb) 8=149.



February 5, 2021

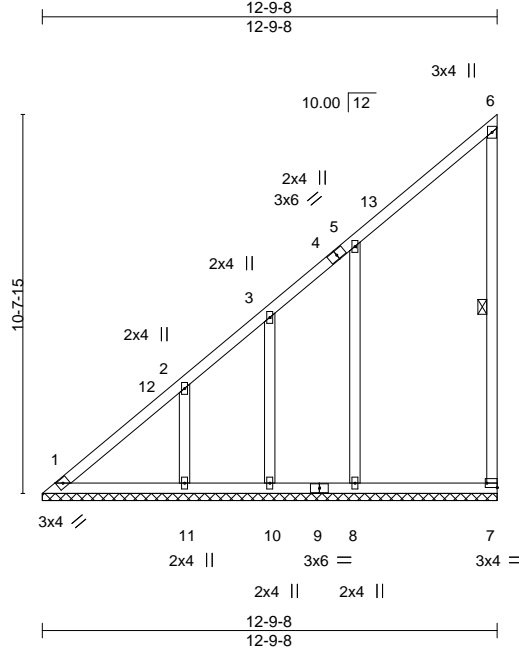
Job COASTROOF130	Truss V19	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695863
---------------------	--------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:22 2021 Page 1

ID:hwqUHzvaaVU85LTwHdxeyfjRC1-0DMPiwewh62Gy7c541JZF5mc7JwbNAXsELQHSzoC\_d



Scale = 1:64.8

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.78	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.57	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.31	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 79 lb	FT = 20%

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

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

**REACTIONS.** All bearings 12-9-8.  
 (lb) - Max Horz 1=392(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 7, 10, 1 except 8=168(LC 12), 11=162(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 7, 10, 1 except 8=457(LC 19), 11=334(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-549/553, 2-3=-420/407, 3-5=-373/382  
 WEBS 5-8=-336/231, 2-11=-272/191

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 12-7-12 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
  - 2) Gable requires continuous bottom chord bearing.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 10, 1 except (jt=lb) 8=168, 11=162.



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

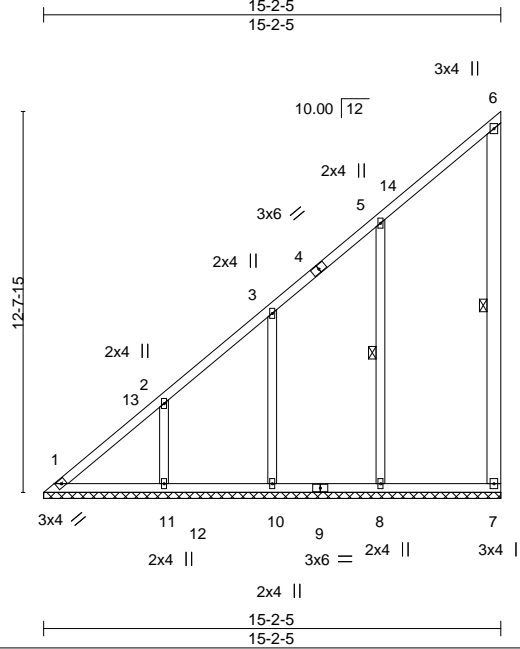
Job COASTROOF130	Truss V20	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 144695864
---------------------	--------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:22 2021 Page 1

ID:hwqUHZvaaVU85LTwHdxeyfjyRC1-0DMPIwewh62Gy7c541IJZF5qs7JMbPFxSsELQHSzoC\_d



Scale = 1:76.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	-0.00	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 105 lb	FT = 20%

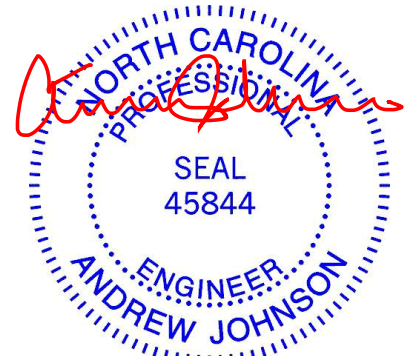
**LUMBER-**  
 TOP CHORD 2x4 SP No.3  
 BOT CHORD 2x4 SP No.3  
 WEBS 2x6 SP No.2  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 6-7, 5-8

**REACTIONS.** All bearings 15-2-5.  
 (lb) - Max Horz 1=466(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 7=110(LC 11), 10=143(LC 12), 8=176(LC 12), 11=175(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 7 except 10=405(LC 19), 8=472(LC 19), 11=386(LC 19), 1=286(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=639/652, 2-3=506/511, 3-5=395/405  
 WEBS 3-10=262/195, 5-8=331/215, 2-11=293/212

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 14-11-9 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
  - 2) Gable requires continuous bottom chord bearing.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 7=110, 10=143, 8=176, 11=175.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932



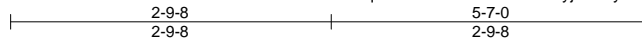
Job COASTROOF130	Truss V22	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695866
---------------------	--------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

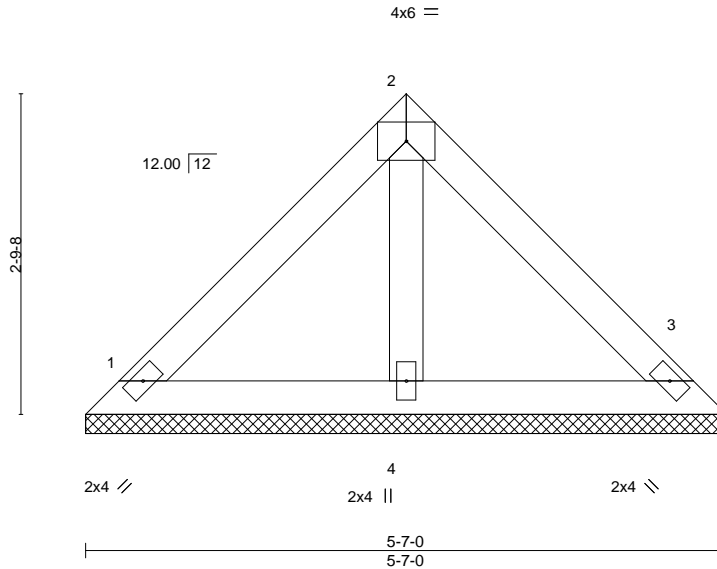
Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:24 2021 Page 1

ID:hwqUHzvaaVU85LTwHdxeyfjRC1-ycU97cfADkl\_BRmUBSLnfgAFCw6i3LCqJYqXLLzoC\_b



Scale = 1:20.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	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: 22 lb	FT = 20%
	Code IRC2015/TPI2014							

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

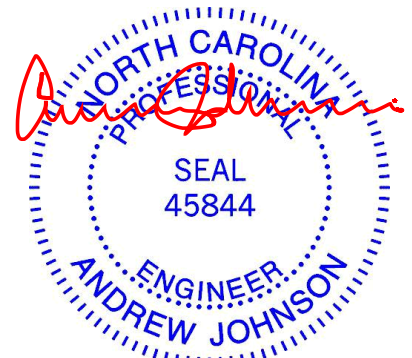
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-7-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=5-7-0, 3=5-7-0, 4=5-7-0  
 Max Horz 1=61(LC 9)  
 Max Uplift 1=30(LC 13), 3=30(LC 13)  
 Max Grav 1=117(LC 1), 3=117(LC 1), 4=157(LC 1)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1 and 30 lb uplift at joint 3.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

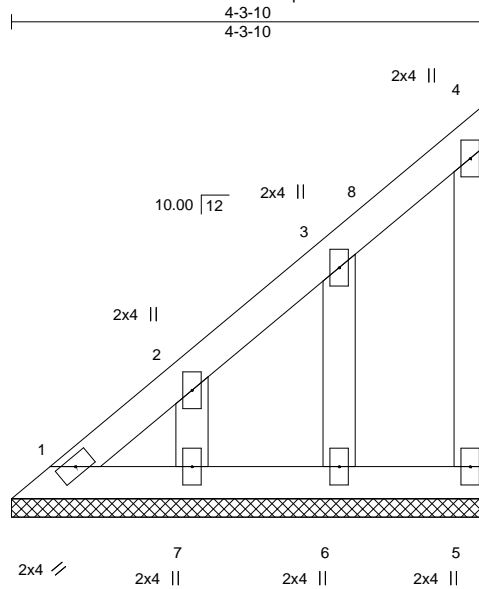
Job COASTROOF130	Truss V23	Truss Type GABLE	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695867
---------------------	--------------	---------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:24 2021 Page 1

ID:hwqUHvzvaaVU85LTwHdxeyfjRC1-ycU97cfADkI\_BRmUBSLnfgAHiw763L7qJYqXLLzoC\_b



Scale = 1:20.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 22 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-3-10 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 4-3-10.  
 (lb) - Max Horz 1=120(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6, 7  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6, 7

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-1-14 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
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6, 7.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

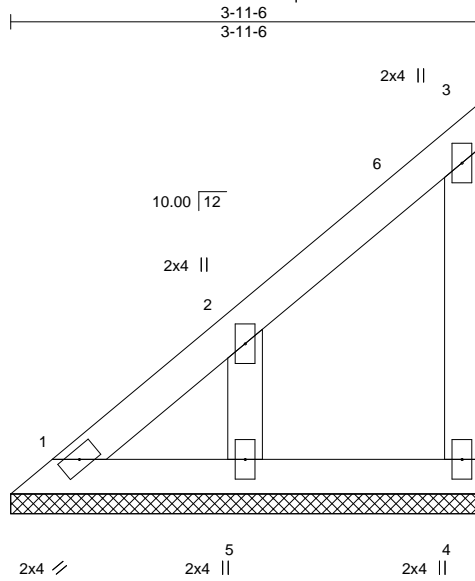
Job COASTROOF130	Truss V24	Truss Type VALLEY	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695868
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:25 2021 Page 1

ID:hwqUHvzvaaVU85LTwHdxeyfjyRC1-Qo2XLYgo\_1QrpbLgl9s0BtiQwKTnooAzYCZ4unzoC\_a



Scale = 1:19.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	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 0.04	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 18 lb	FT = 20%
	Code IRC2015/TPI2014							

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

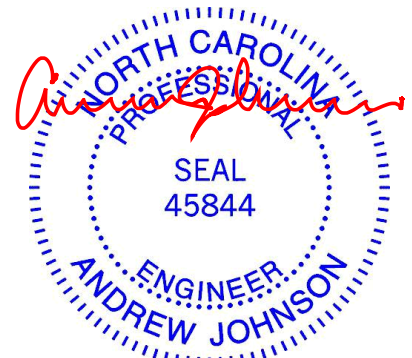
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=3-11-6, 4=3-11-6, 5=3-11-6  
Max Horz 1=109(LC 9)  
Max Uplift 1=-15(LC 8), 4=-29(LC 9), 5=-90(LC 12)  
Max Grav 1=75(LC 20), 4=72(LC 19), 5=187(LC 19)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 3-9-10 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
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 5.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932



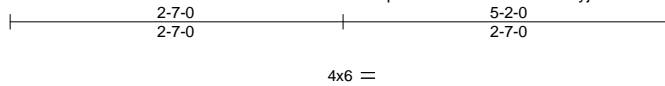
Job COASTROOF130	Truss V25	Truss Type VALLEY	Qty 99	Ply 1	McKee - Winston-Lot 1013 Anderson Creek- Carriage Glen-130 I44695869
---------------------	--------------	----------------------	-----------	----------	---

Builders FirstSource (Apex, NC),

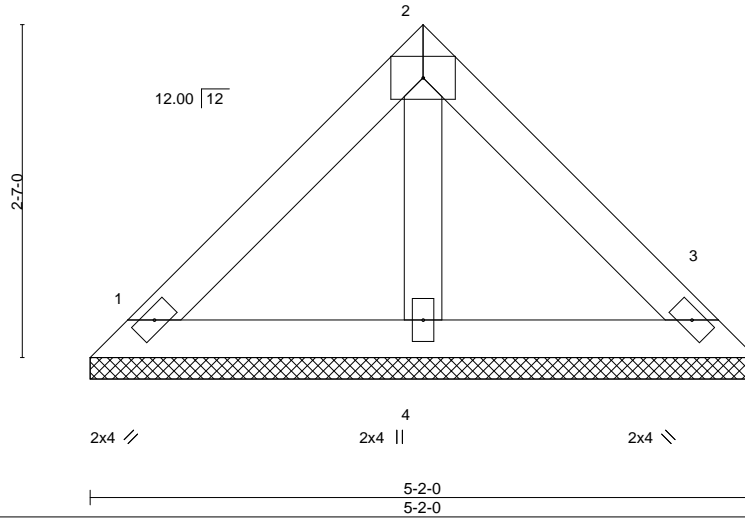
Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Fri Feb 5 11:52:25 2021 Page 1

ID:hwqUHZvaaVU85LTwHdxeyfjRC1-Qo2XLygo\_1QrpbLgl9s0BtiQUKSCooUzYCZ4unzoC\_a



Scale = 1:17.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 20 lb	FT = 20%

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

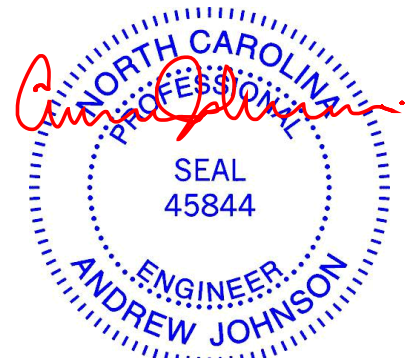
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=5-2-0, 3=5-2-0, 4=5-2-0  
 Max Horz 1=-56(LC 8)  
 Max Uplift 1=-27(LC 13), 3=-27(LC 13)  
 Max Grav 1=107(LC 1), 3=107(LC 1), 4=144(LC 1)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



February 5, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

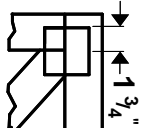
**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



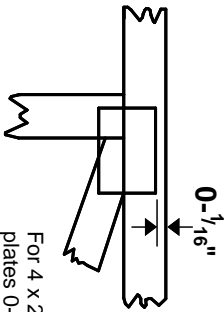
818 Soundside Road  
 Edenton, NC 27932

# Symbols

## PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

\* Plate location details available in **MITek 20/20 software** or upon request.

## PLATE SIZE

4 X 4

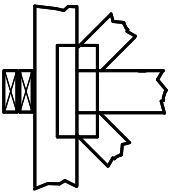
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

## BEARING



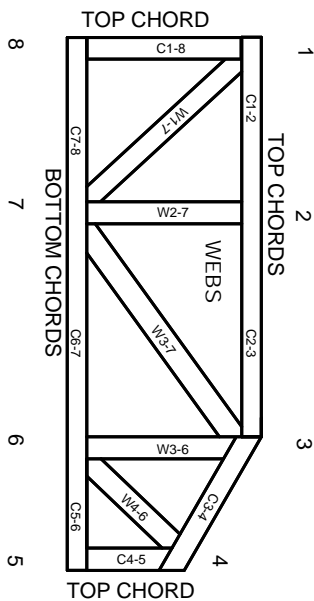
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8  
dimensions shown in ft-in-sixteenths  
(Drawings not to scale)



**JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.**

**CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.**

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988  
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MITteK® All Rights Reserved



MITek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.