

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: MASTER  
A&G/Greenville/Lot54/KenlanFarms/Lillin

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 (Albermarle,NC).

Pages or sheets covered by this seal: E15037465 thru E15037490

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



October 30,2020

Gilbert, Eric

**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.

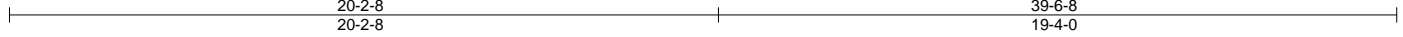
Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037465
MASTER	A01	Common Supported Gable	1	1		

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

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ID:uTzDxHiHVmmObiTFpcz333zbfj-mQtGw4Bmnz3a\_9j35qX1FvqpKgZPOG7QLbbBRJyOQp9

Job Reference (optional)



Scale = 1:65.7

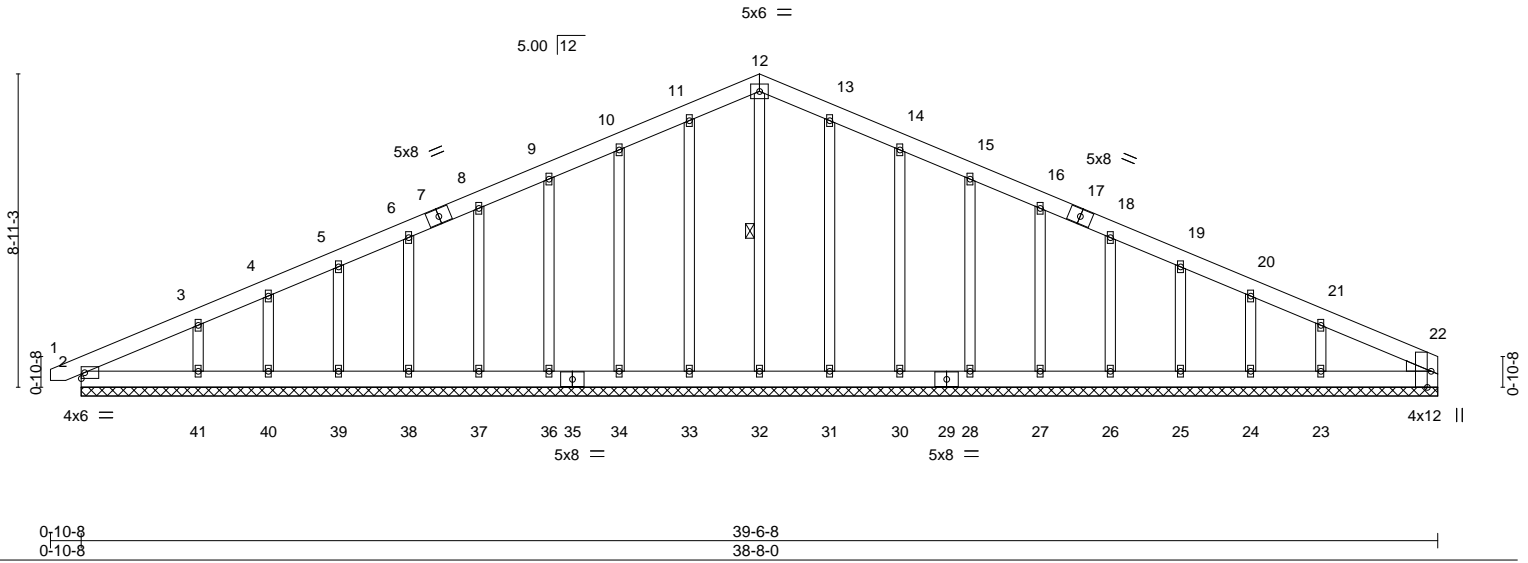


Plate Offsets (X,Y)-- [22:0-0-8,0-1-2], [22:0-0-15,0-7-14], [22:0-5-8,Edge]

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 0.05	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	22	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 306 lb	FT = 20%

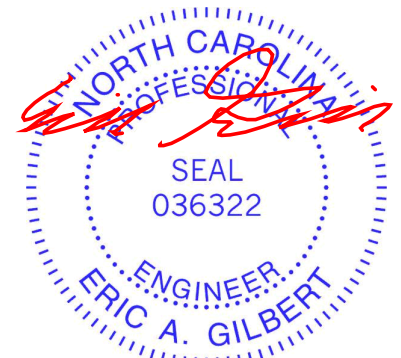
**LUMBER-**  
 TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 SP No.2  
 OTHERS 2x4 SP No.3  
 WEDGE  
 Right: 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 12-32

**REACTIONS.** All bearings 38-8-0.  
 (lb) - Max Horz 2=165(LC 17)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 33, 34, 36, 37, 38, 39, 40, 31, 30, 28, 27, 26, 25, 24 except 41=117(LC 12), 23=-113(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 32, 33, 34, 36, 37, 38, 39, 40, 31, 30, 28, 27, 26, 25, 24, 22 except 41=261(LC 23), 23=268(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 11-12=-111/281, 12-13=-111/281

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 33, 34, 36, 37, 38, 39, 40, 31, 30, 28, 27, 26, 25, 24 except (jt=lb) 41=117, 23=113.



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**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  
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Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillan	E15037466
MASTER	A02	Common	7	1		

Builders FirstSource (Albermarle), Albermarle, NC - 28001, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:36:39 2020 Page 1

ID:uTzDxHiHvmmObiTFpcz333zbfjJ-B?YPY6Ee4uS9rdRemy4ktXSDhuombY5s1Zqr2eyOQp6



Scale: 3/16"=1'

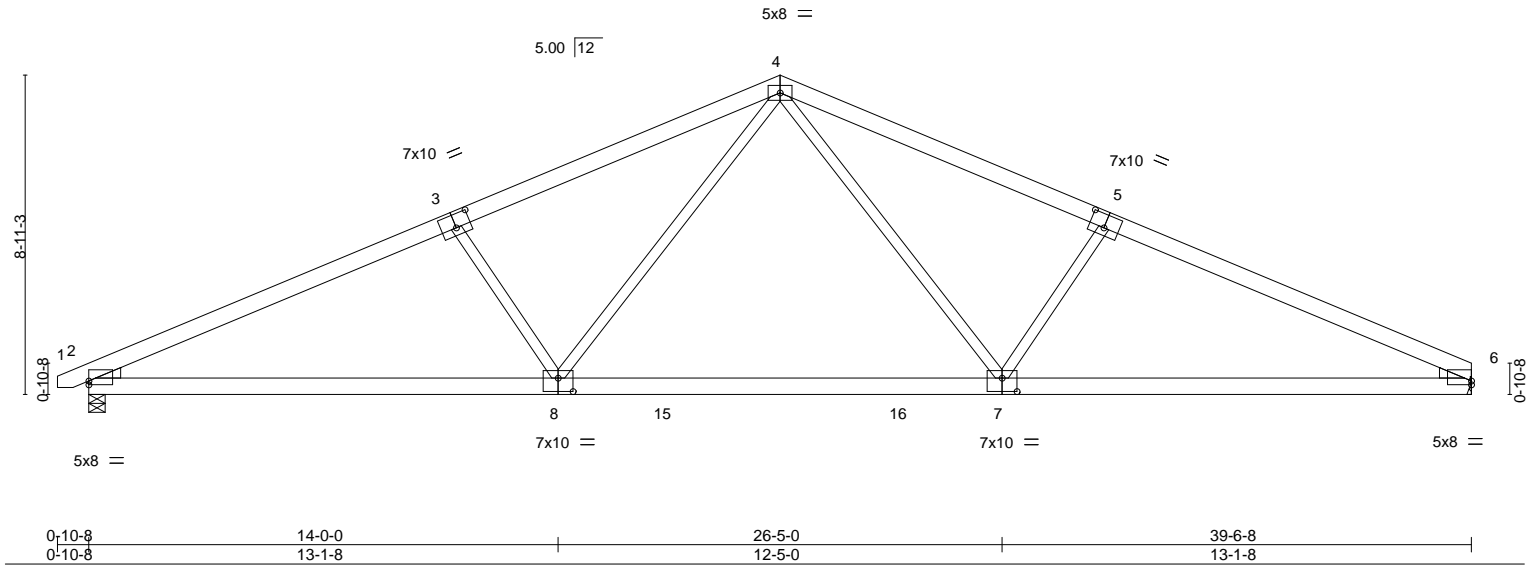


Plate Offsets (X,Y)-- [2:Edge,0-1-4], [3:0-5-0,0-4-8], [5:0-5-0,0-4-8], [6:Edge,0-1-4], [7:0-5-0,0-4-8], [8:0-5-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.39	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.83	Vert(CT) -0.59	7-8	>781	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.09	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.14	7-8	>999	240	Weight: 238 lb	FT = 20%

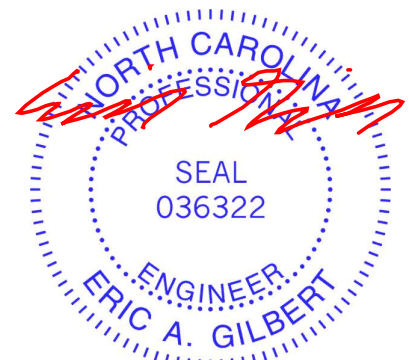
**LUMBER-**  
TOP CHORD 2x6 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3, Right: 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 2=0-5-8, 6=Mechanical  
Max Horz 2=165(LC 12)  
Max Uplift 2=302(LC 12), 6=284(LC 13)  
Max Grav 2=1587(LC 1), 6=1546(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2908/965, 3-4=-2590/938, 4-5=-2591/939, 5-6=-2910/966  
BOT CHORD 2-8=-761/2570, 7-8=-400/1785, 6-7=-761/2572  
WEBS 3-8=-554/411, 4-8=-239/912, 4-7=-240/913, 5-7=-556/412

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left 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.
  - 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) 2=302, 6=284.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillan	E15037467
MASTER	A03	Common	2	1		

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:36:42 2020 Page 1  
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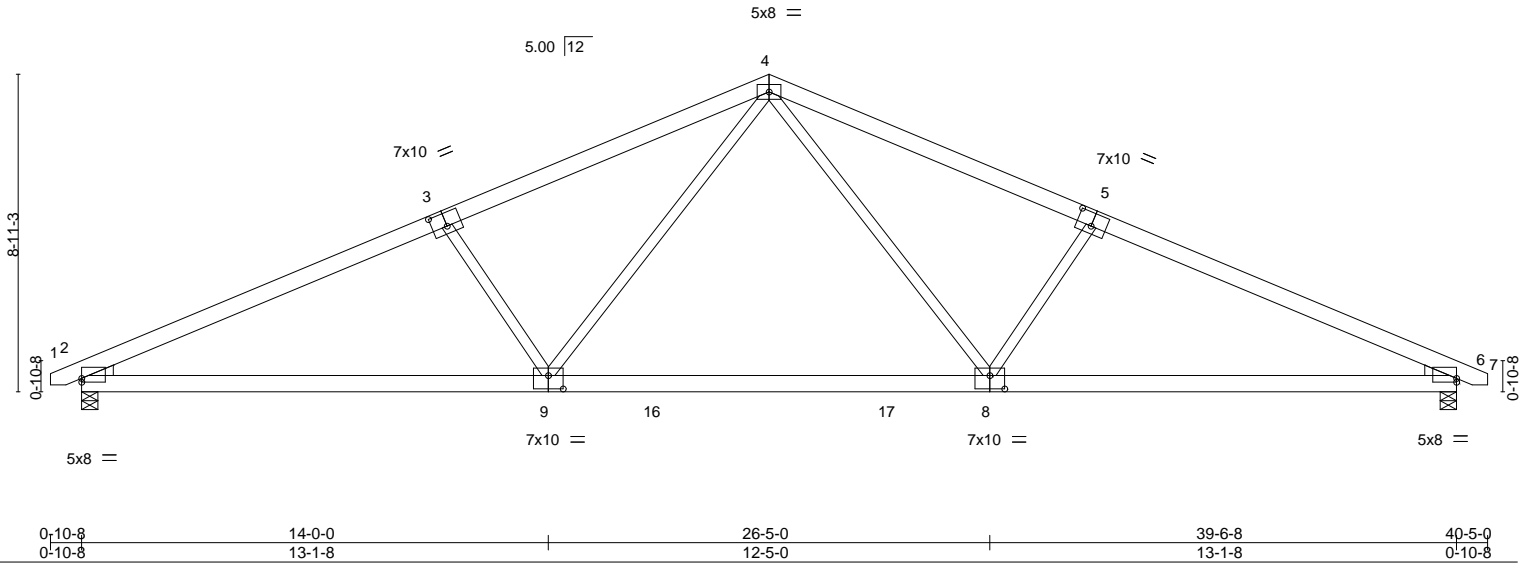


Plate Offsets (X,Y)-- [2:Edge,0-1-4], [3:0-5-0,0-4-8], [5:0-5-0,0-4-8], [6:0-0-0,0-1-4], [8:0-5-0,0-4-8], [9:0-5-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.39	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.83	Vert(CT) -0.59	8-9	>781	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.09	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.14	8-9	>999	240		
							Weight: 241 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3  
 WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.**

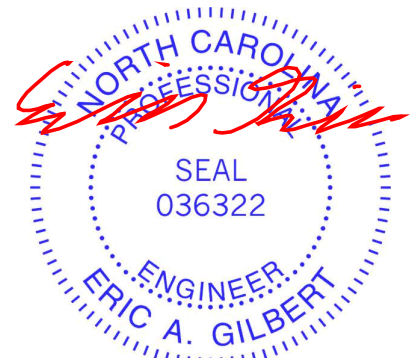
(size) 2=0-5-8, 6=0-5-8  
 Max Horz 2=160(LC 12)  
 Max Uplift 2=302(LC 12), 6=302(LC 13)  
 Max Grav 2=1586(LC 1), 6=1586(LC 1)

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

TOP CHORD 2-3=-2908/965, 3-4=-2589/938, 4-5=-2589/938, 5-6=-2908/965  
 BOT CHORD 2-9=-748/2569, 8-9=-387/1784, 6-8=-749/2569  
 WEBS 4-8=-239/912, 5-8=-554/411, 4-9=-239/912, 3-9=-554/411

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) except (jt=lb) 2=302, 6=302.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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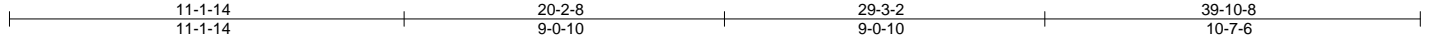
Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037468
MASTER	A04	Common	5	1		

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:36:45 2020 Page 1

ID:uTzDxDxHwmmObiTFpcz333zbfjJ-09wgp9IPfkCIZYvo7DB87oiDyIqB?CIQVH9FHyoQp0

Job Reference (optional)



Scale = 1:65.1

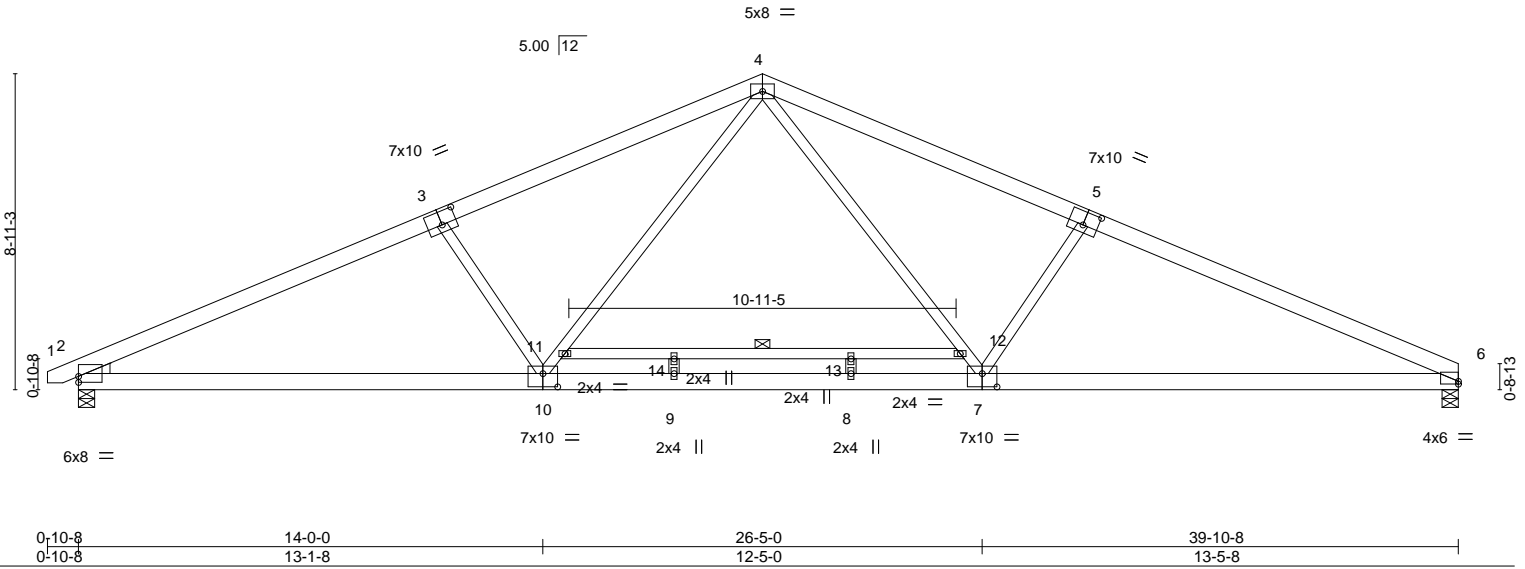


Plate Offsets (X,Y)-- [2:Edge,0-2-0], [3:0-5-0,0-4-8], [5:0-5-0,0-4-8], [6:0-0-0,0-0-15], [7:0-5-0,0-4-8], [10:0-5-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.57	Vert(LL)	-0.17	7-20	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.89	Vert(CT)	-0.55	8-9	>857		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.71	Horz(CT)	0.09	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.13	9	>999		
	Code IRC2015/TPI2014						Weight: 257 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 11-12: 2x4 SP No.2	WEBS 1 Row at midpt 11-12

WEDGE  
Left: 2x4 SP No.3

**REACTIONS.** (size) 2=0-5-8, 6=0-5-8  
Max Horz 2=163(LC 16)  
Max Uplift 2=202(LC 12), 6=190(LC 13)  
Max Grav 2=1701(LC 1), 6=1659(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-3193/717, 3-4=-2878/687, 4-5=-2941/702, 5-6=-3264/734  
BOT CHORD 2-10=-530/2828, 9-10=-236/2122, 8-9=-236/2122, 7-8=-236/2122, 6-7=-549/2908  
WEBS 3-10=-537/431, 10-11=-130/925, 4-11=-121/1010, 4-12=-143/1089, 7-12=-153/1007,  
5-7=-579/442

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 200.0lb AC unit load placed on the bottom chord, 20-2-8 from left end, supported at two points, 5-0-0 apart.
  - 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) except (jt=lb) 2=202, 6=190.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

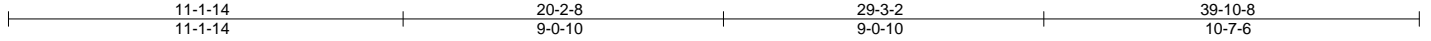


October 30, 2020

Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037469
MASTER	A04A	Common	3	1	Job Reference (optional)	

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:36:46 2020 Page 1  
 ID:uTzDxHiHVmmObiTFpcz333zbfjJ-ULT21VJ1Q2K9BiU\_hwiNf0FPviBoki1ue90jnkYOQp?



Scale = 1:65.1

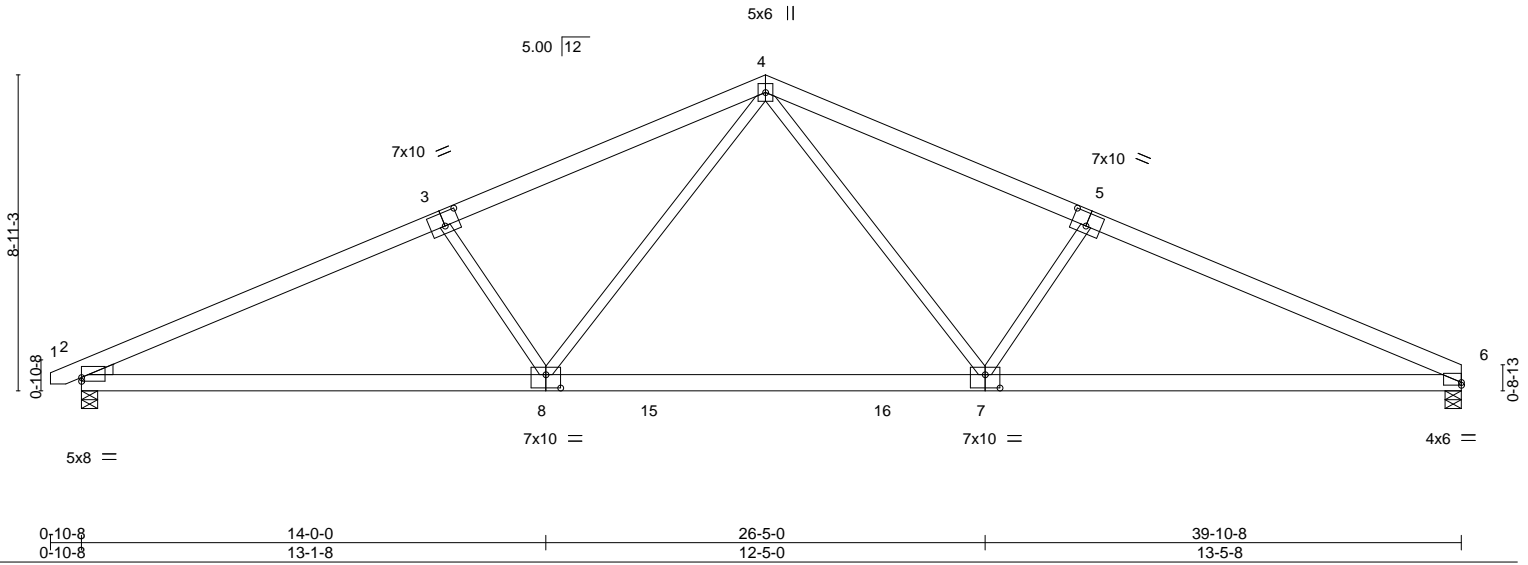


Plate Offsets (X,Y)-- [2:Edge,0-1-4], [3:0-5-0,0-4-8], [5:0-5-0,0-4-8], [6:Edge,0-0-15], [7:0-5-0,0-4-8], [8:0-5-0,0-4-8]

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) -0.37	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.80	Vert(CT) -0.57	7-8	>822	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.55	Horz(CT) 0.08	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.13	7-8	>999	240	Weight: 239 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3  
 WEDGE  
 Left: 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 2=0-5-8, 6=0-5-8  
 Max Horz 2=163(LC 16)  
 Max Uplift 2=303(LC 12), 6=289(LC 13)  
 Max Grav 2=1600(LC 1), 6=1560(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2938/975, 3-4=-2619/948, 4-5=-2678/966, 5-6=-3005/996  
 BOT CHORD 2-8=-763/2598, 7-8=-403/1816, 6-7=-786/2673  
 WEBS 3-8=-556/412, 4-8=-237/907, 4-7=-264/978, 5-7=-596/426

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) except (jt=lb) 2=303, 6=289.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



October 30,2020

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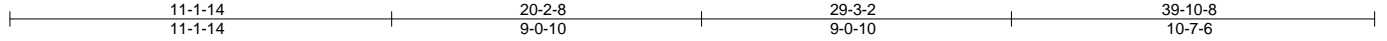


Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillian	E15037470
MASTER	A05	COMMON	2	2		

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:36:48 2020 Page 1  
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Job Reference (optional)



Scale = 1:67.3

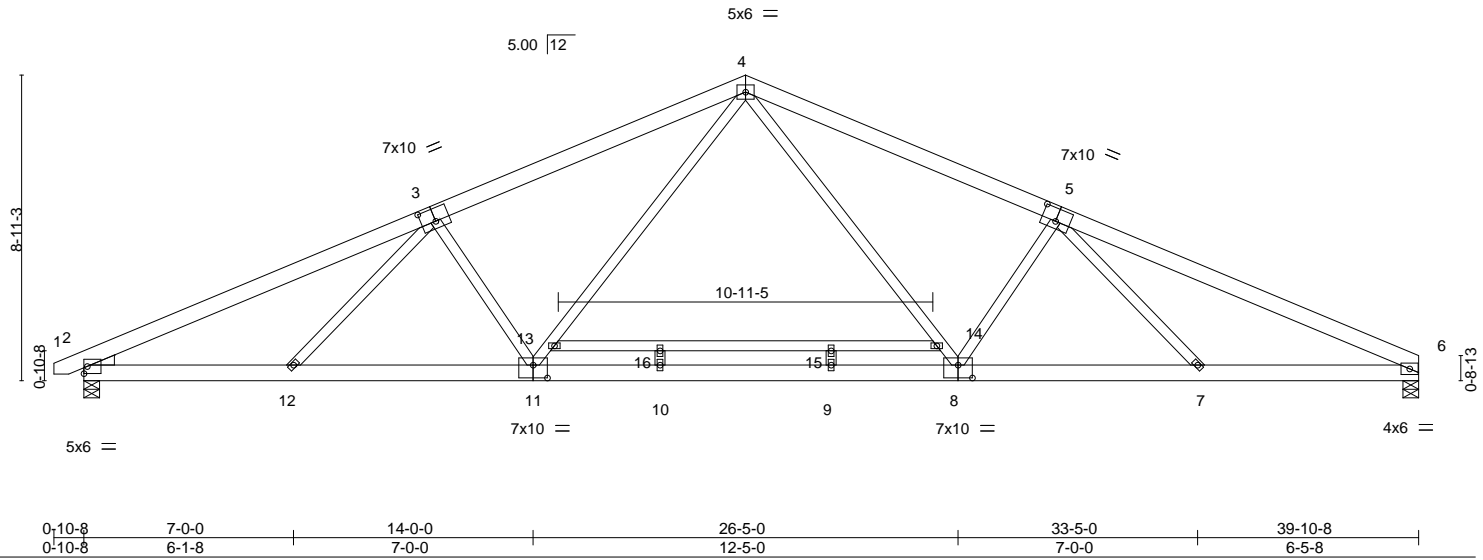


Plate Offsets (X,Y)-- [3:0-5-0,0-4-8], [5:0-5-0,0-4-8], [8:0-5-0,0-4-8], [11:0-5-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	Vert(LL)	-0.09 9-10	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.38	Vert(CT)	-0.21 9-10	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.31	Horz(CT)	0.04 6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.06 11	>999	240		
	Code IRC2015/TPI2014						Weight: 550 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 13-14: 2x4 SP No.2

WEDGE  
 Left: 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.**

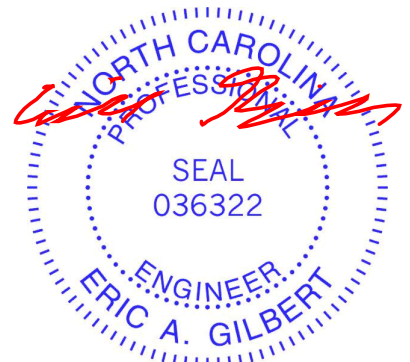
(size) 2=0-5-8, 6=0-5-8  
 Max Horz 2=163(LC 16)  
 Max Uplift 2=303(LC 12), 6=289(LC 13)  
 Max Grav 2=1600(LC 1), 6=1560(LC 1)

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

TOP CHORD 2-3=-2942/912, 3-4=-2620/964, 4-5=-2657/975, 5-6=-3085/960  
 BOT CHORD 2-12=-710/2601, 11-12=-766/2599, 10-11=-436/1921, 9-10=-436/1921, 8-9=-436/1921,  
 7-8=-788/2669, 6-7=-756/2742  
 WEBS 3-11=-566/393, 11-13=-241/831, 4-13=-255/891, 4-14=-271/938, 8-14=-257/876,  
 5-8=-630/416

**NOTES-**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=303, 6=289.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



October 30, 2020

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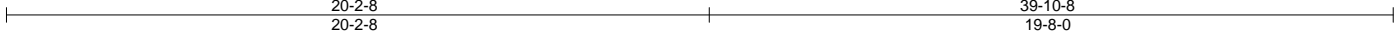
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillan	E15037471
MASTER	A06	Common Supported Gable	1	1		

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:36:53 2020 Page 1

ID:uTzDxHiHVmmObiTFpcz333zbfjJ-nhPhVuPQnBC9WnWKbvL0RU1jvXmGtyKwFIDaWqyOQou



Scale = 1:66.3

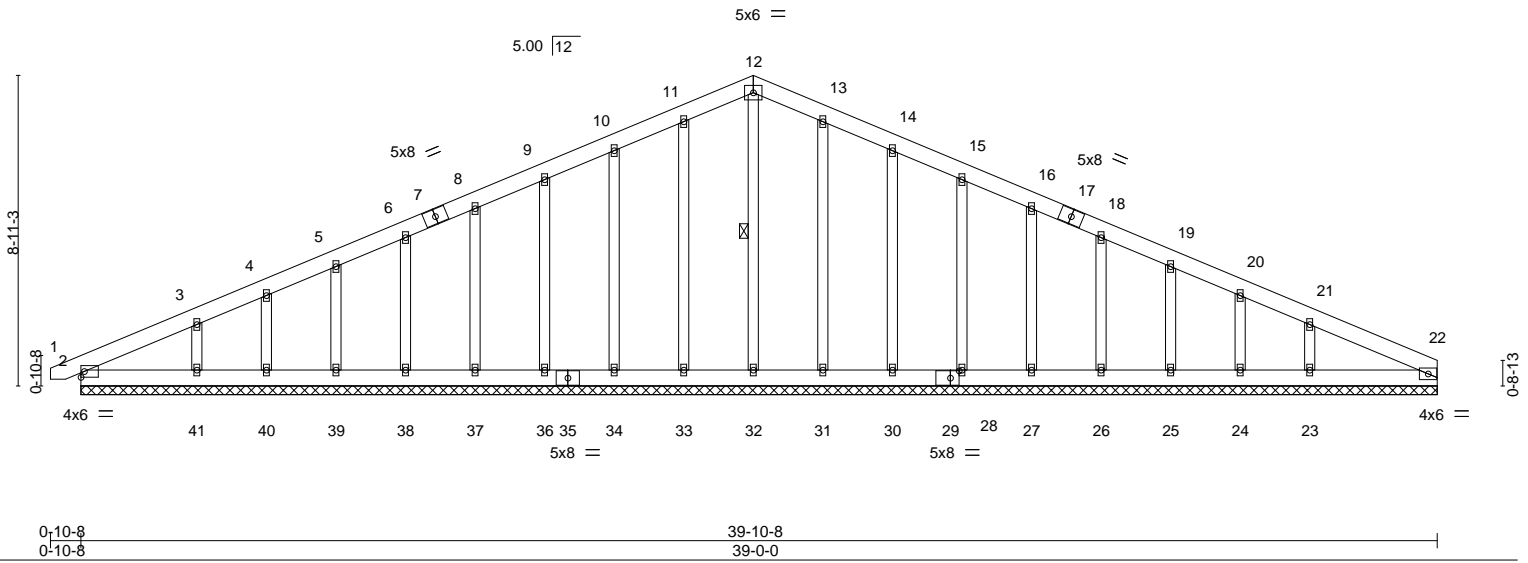


Plate Offsets (X,Y)-- [29:0-3-0,0-2-8]

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 0.06	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	22	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 307 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 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 12-32

**REACTIONS.** All bearings 39-0-0.  
 (lb) - Max Horz 2=-165(LC 17)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 33, 34, 36, 37, 38, 39, 40, 31, 30, 28, 27, 26, 25, 24 except 41=-117(LC 12), 23=-115(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 32, 33, 34, 36, 37, 38, 39, 40, 31, 30, 28, 27, 26, 25, 24, 22 except 41=261(LC 23), 23=295(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 11-12=-111/282, 12-13=-111/282

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 33, 34, 36, 37, 38, 39, 40, 31, 30, 28, 27, 26, 25, 24 except (jt=lb) 41=117, 23=115.



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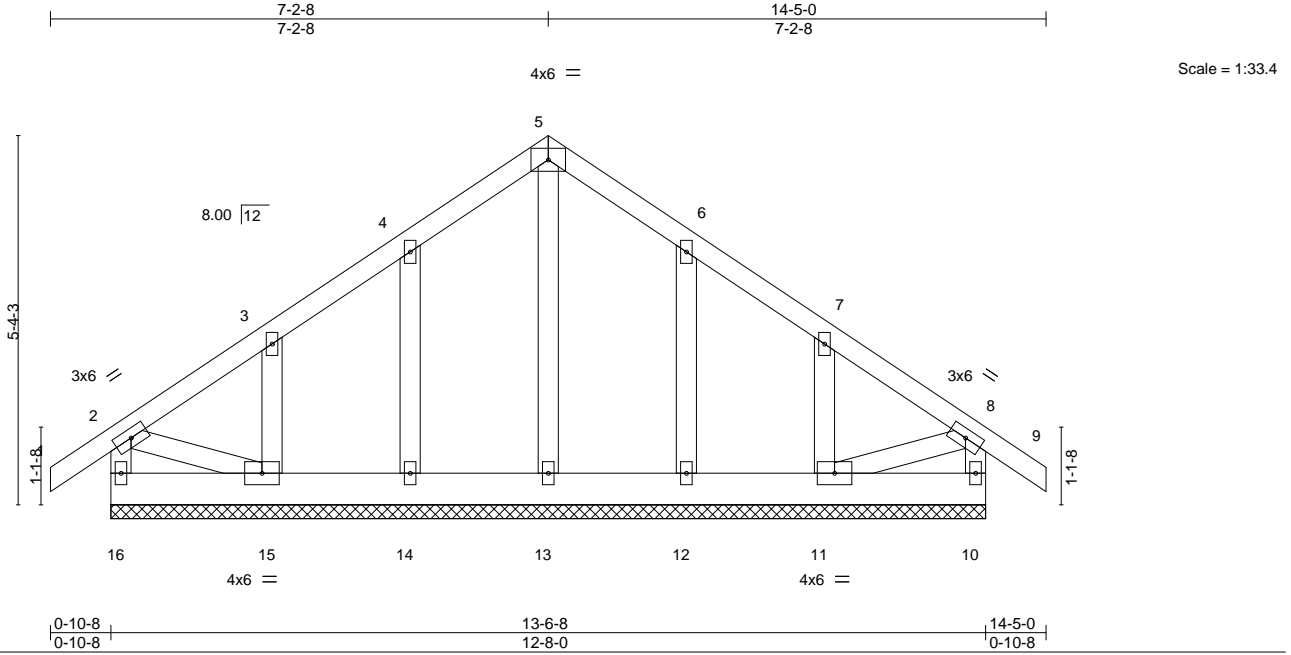


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Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037472
MASTER	B01	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Albermarle), Albermarle, NC - 28001, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:36:55 2020 Page 1  
 ID:uTzDxHiHVmmObiTFpcz333zbfjJ-j4WSvaQglpTm4gjiJNUXv62FKS1LuCDj3ihbiyOQos



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	Vert(LL) -0.00	9	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT) -0.00	9	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT) 0.00	10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 86 lb	FT = 20%
	Code IRC2015/TPI2014							

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 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 12-8-0.  
 (lb) - Max Horz 16=171(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 12 except 15=125(LC 12), 11=121(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

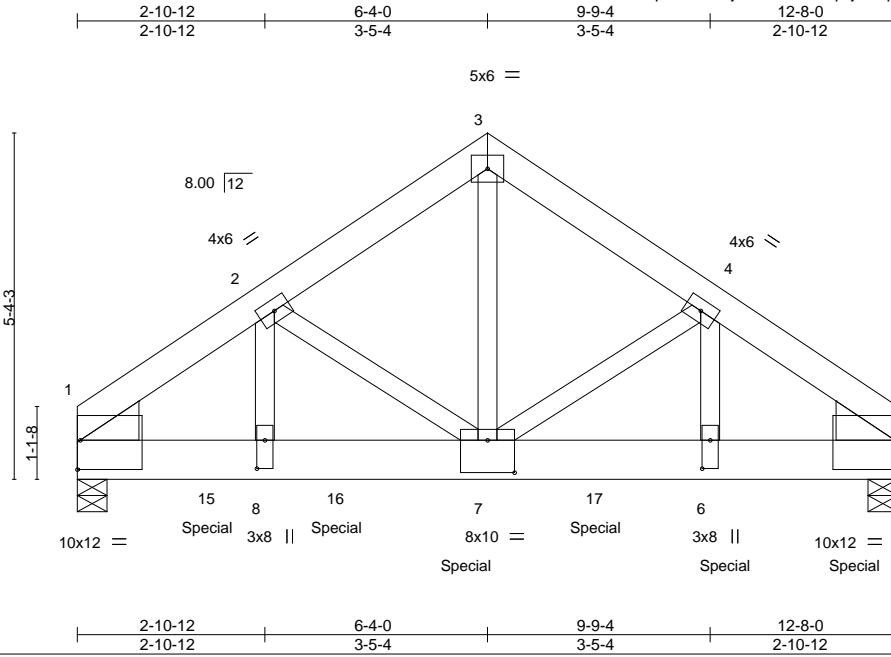
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 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) 16, 10, 14, 12 except (jt=lb) 15=125, 11=121.



October 30, 2020

Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037473
MASTER	B03	Common Girder	1	2	Job Reference (optional)	

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:36:57 2020 Page 1  
 ID:uTzDxHihVmmObiTfPcz333zbfjJ-fTeCKGSxqQjb?Op5qkPycKCKk839pgTWNANBofbyOQoq



Scale = 1:35.6

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) 0.05	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.07	6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.57	Horz(CT) 0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS					Weight: 210 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x8 SP DSS  
 WEBS 2x4 SP No.2  
 WEDGE  
 Left: 2x8 SP DSS, Right: 2x8 SP DSS

**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=0-5-8, 5=0-5-8  
 Max Horz 1=120(LC 5)  
 Max Uplift 1=1977(LC 8), 5=2519(LC 9)  
 Max Grav 1=4617(LC 1), 5=5715(LC 1)

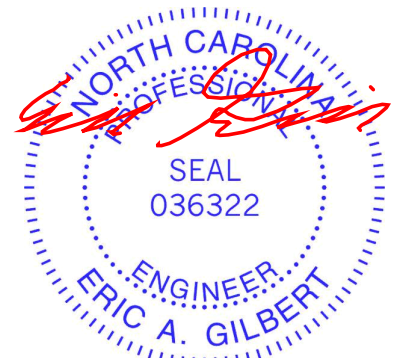
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-5556/2413, 2-3=-4639/2075, 3-4=-4637/2074, 4-5=-5774/2541  
 BOT CHORD 1-8=-1967/4426, 7-8=-1967/4426, 6-7=-1995/4604, 5-6=-1995/4604  
 WEBS 3-7=-2102/4653, 4-7=-913/491, 4-6=-657/1381, 2-7=-694/362, 2-8=-506/1122

**NOTES-**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1977, 5=2519.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1553 lb down and 694 lb up at 2-0-12, 1553 lb down and 738 lb up at 4-0-11, 1553 lb down and 738 lb up at 6-0-11, 1553 lb down and 738 lb up at 8-0-11, and 1553 lb down and 738 lb up at 10-0-11, and 1556 lb down and 734 lb up at 12-0-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037473
MASTER	B03	Common Girder	1	<b>2</b>	Job Reference (optional)	

Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:36:58 2020 Page 2  
 ID:uTzDxHiHVmmObiTFpcz333zbfjJ-7fCaYcSZbkrSdYOIOSwB8YkVUYPOY7jfP1wLC1yOQop

**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 9-12=-20

Concentrated Loads (lb)

Vert: 6=-1553(B) 7=-1553(B) 14=-1556(B) 15=-1553(B) 16=-1553(B) 17=-1553(B)

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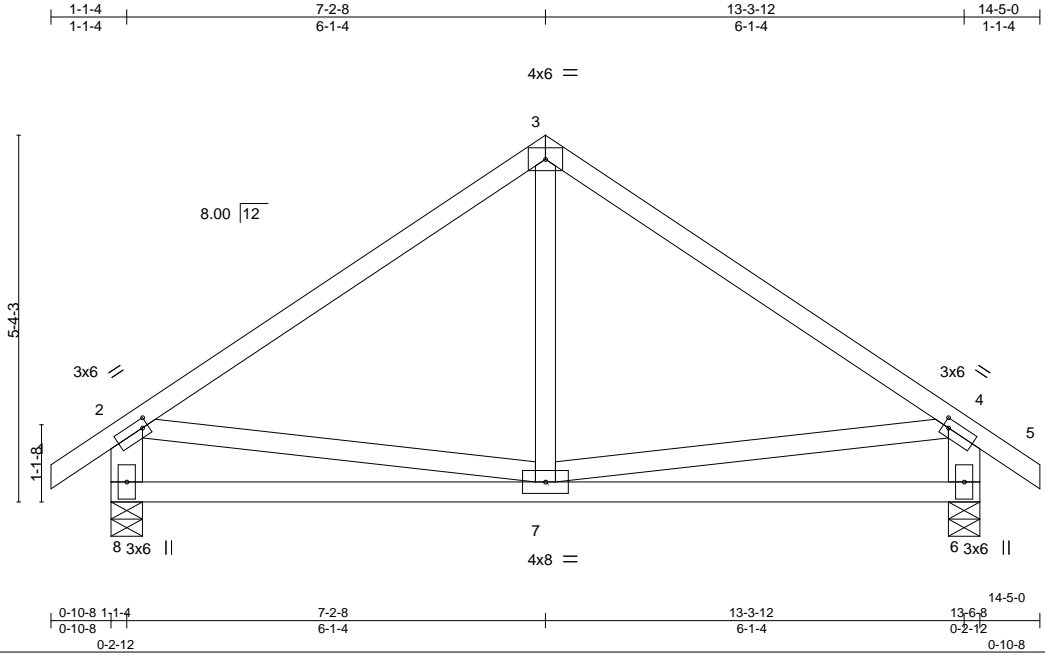


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Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037474
MASTER	B05	Common	1	1		

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:36:59 2020 Page 1  
 ID:uTzDxHiHvmmObiTFpcz333zbfjJ-brmzlxTBM1zJEizUx9RQhIHgWylYHhXoeggvKTyOQoo



Scale = 1:33.6

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.02	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.05	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-AS	Wind(LL)	0.00	7	>999	Weight: 73 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 4-6,2-8: 2x6 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 8=0-5-8, 6=0-5-8  
 Max Horz 8=-176(LC 10)  
 Max Uplift 8=-107(LC 12), 6=-107(LC 13)  
 Max Grav 8=555(LC 1), 6=555(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-502/152, 3-4=-502/152, 4-6=-497/218, 2-8=-497/218  
 BOT CHORD 7-8=-204/369, 6-7=-138/311

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) except (jt=lb) 8=107, 6=107.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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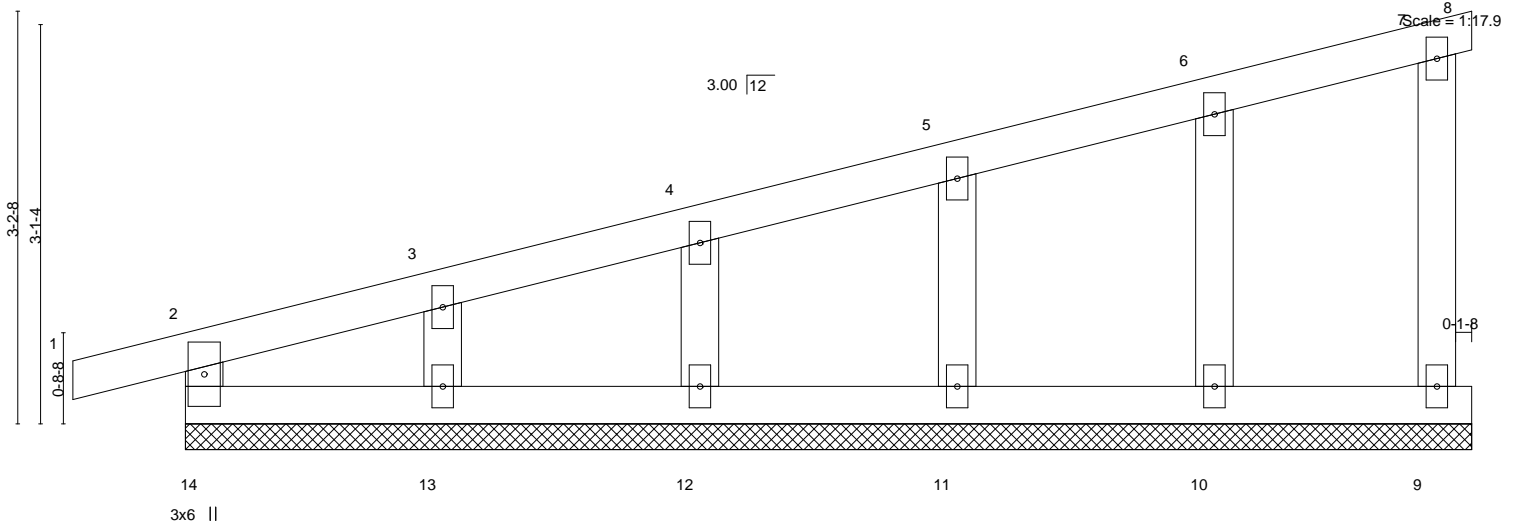
Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037475
MASTER	CP01	Monopitch Supported Gable	2	1	Job Reference (optional)	

Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:37:02 2020 Page 1

ID:uTzDxHiHVmmObiTfpcz333zbfjJ-0QR5NzW3fyLu59i3dl?7JJOvEL9qKU32FKeuZLoyOQol

10-10-8  
10-10-8



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 0.08	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	-0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 44 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 10-0-0 oc bracing.

**REACTIONS.**

All bearings 10-0-0.  
 (lb) - Max Horz 14=116(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 8, 14, 10, 11, 12, 9, 13  
 Max Grav All reactions 250 lb or less at joint(s) 14, 10, 11, 12, 9, 13

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 14, 10, 11, 12, 9, 13.



October 30, 2020

**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

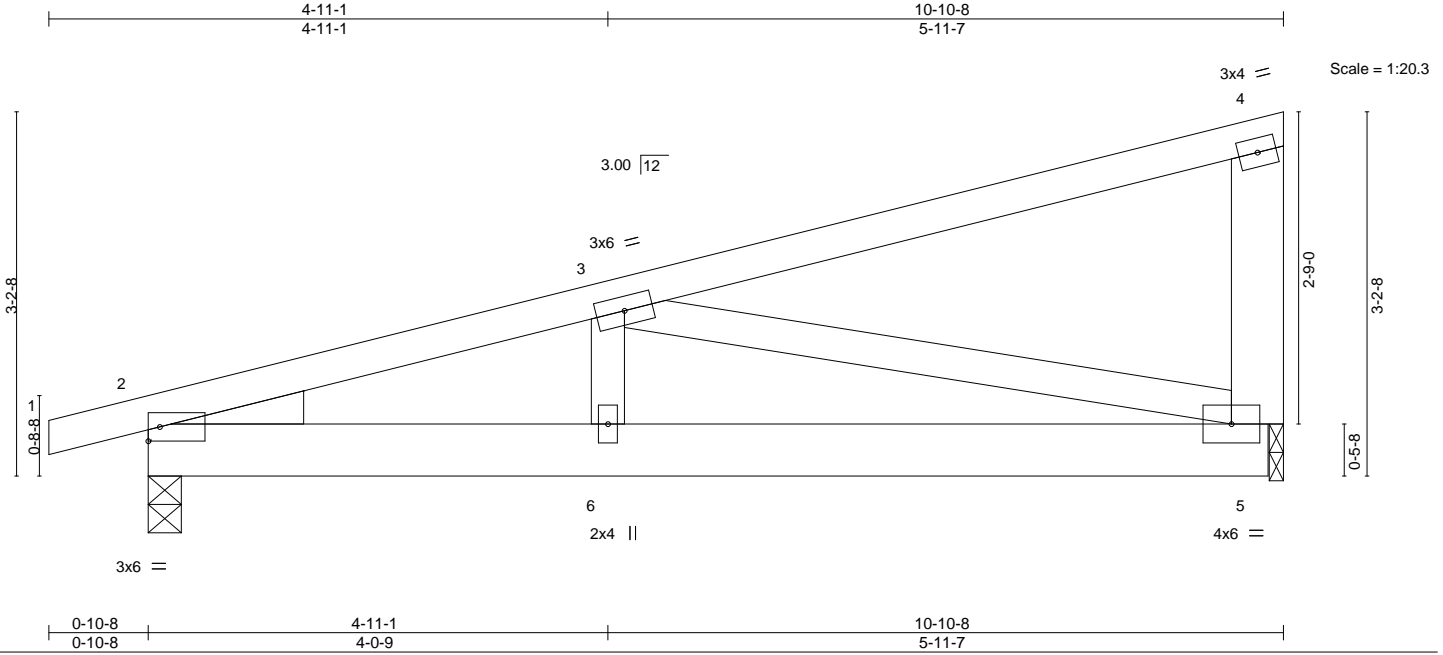


818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillian	E15037476
MASTER	CP02	Monopitch	4	1	Job Reference (optional)	

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:37:05 2020 Page 1  
 ID:uTzDxHiHvmmObiTFpzc333zbJfJ-Q?7E0?YyytjSydRelQYqx0XILMprhKrh0c7Dx7yOQoi



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) 0.05 5-6 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.42	Vert(CT) -0.04 5-6 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) -0.01 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 57 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 4-5: 2x6 SP No.2

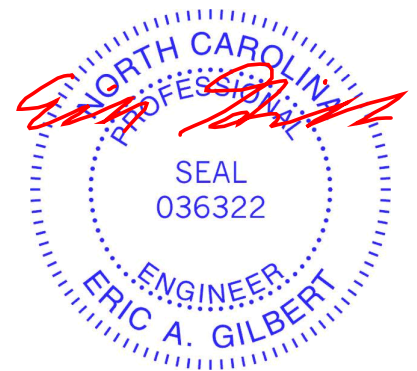
**WEDGE**  
 Left: 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except end verticals.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 2=0-3-8, 5=0-1-8  
 Max Horz 2=121(LC 8)  
 Max Uplift 2=-229(LC 8), 5=-219(LC 8)  
 Max Grav 2=446(LC 1), 5=388(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-757/805  
 BOT CHORD 2-6=-886/709, 5-6=-886/709  
 WEBS 3-5=-649/819

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=229, 5=219.
  - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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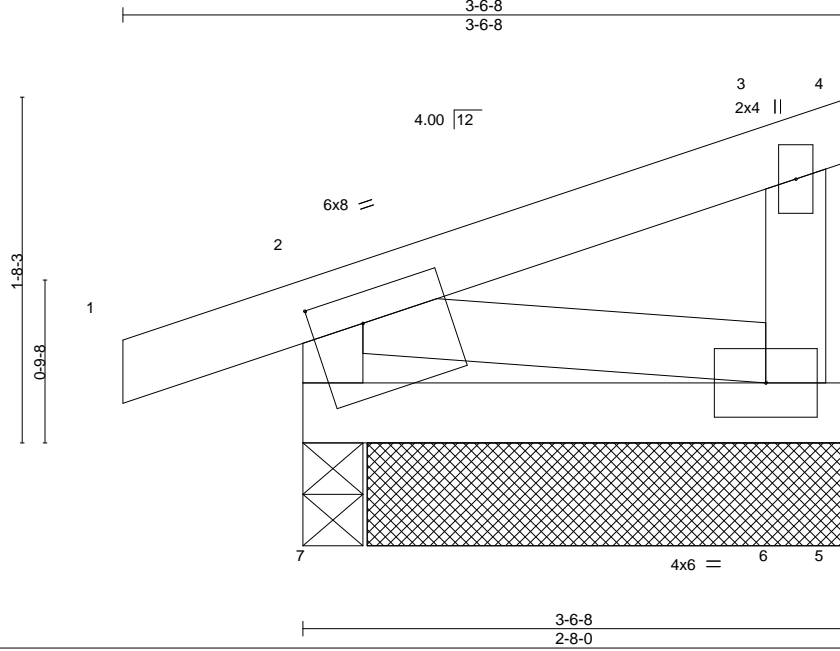


Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037477
MASTER	M01	Monopitch Structural Gable	1	1	Job Reference (optional)	

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:37:08 2020 Page 1

ID:uTzDxHiHVmmObiTFpcz333zbfjJ-rapMe0aqEo51q49DzY6XYf9G0audunc7iaLtYSyOQof



Scale = 1:11.2

Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [7:0-1-11,0-0-9]

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 0.07	Vert(LL)	-0.00 6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00 6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00 7	****	240	Weight: 15 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 6=2-4-4, 7=0-3-8  
Max Horz 6=69(LC 9)  
Max Uplift 6=-30(LC 12), 7=-73(LC 8)  
Max Grav 6=88(LC 1), 7=164(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) Gable studs spaced at 2-0-0 oc.
  - 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) 6, 7.



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

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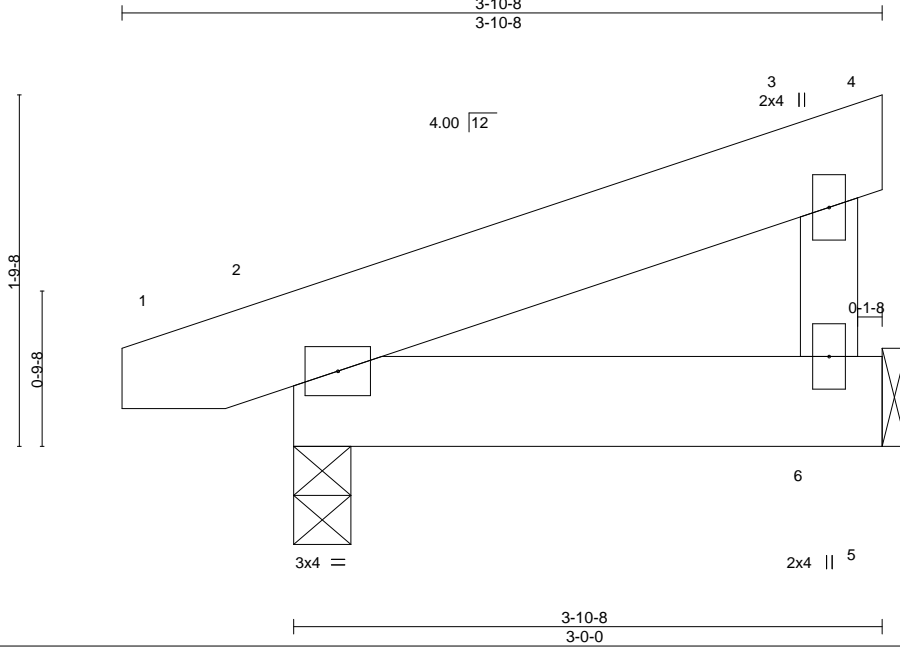
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037478
MASTER	M02	Monopitch	3	1	Job Reference (optional)	

Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:37:10 2020 Page 1

ID:uTzDxHiHVmmObiTFpcz333zbfjJ-nzw73ic5mQMI3OJb5z8?e4Ed?NZJMhbQAuq\_dLyOQod



<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	Plate Grip DOL 1.15	TC 0.04	Vert(LL) 0.00	9	>999	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00	9	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	2	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP						Weight: 18 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 6=Mechanical, 2=0-3-8  
 Max Horz 2=56(LC 8)  
 Max Uplift 6=-72(LC 8), 2=-75(LC 8)  
 Max Grav 6=116(LC 1), 2=149(LC 1)

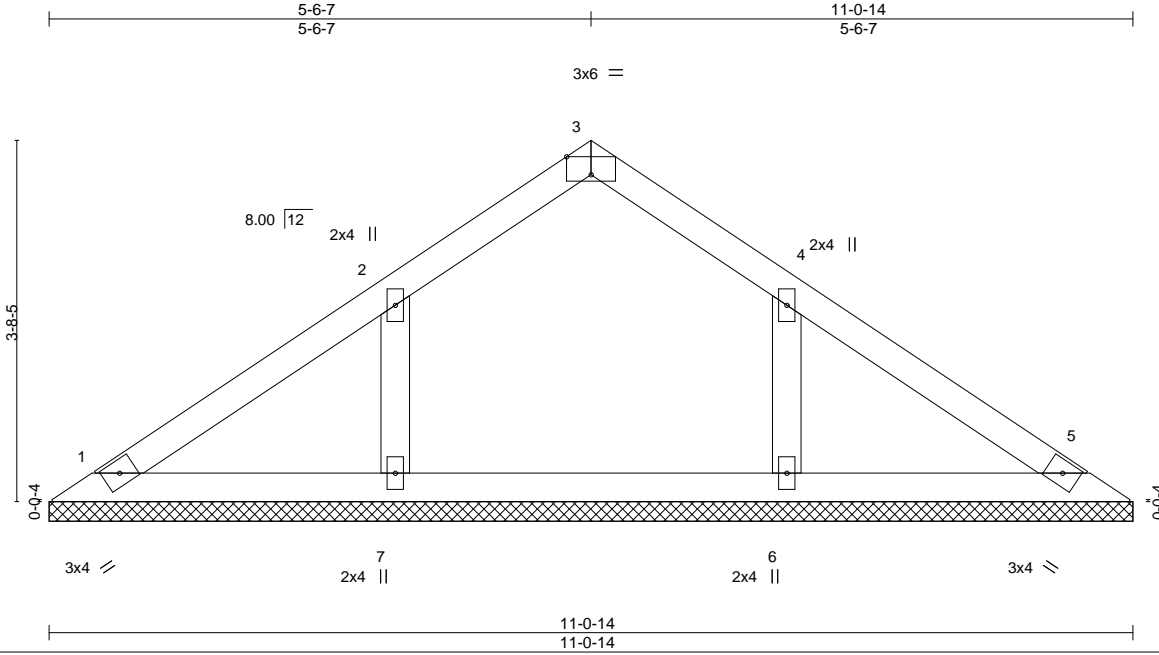
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; end vertical left 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) 6, 2.



Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037479
MASTER	V01	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:37:11 2020 Page 1  
 ID:uTzDxHiHVmmObiTFpcz333zbfjJ-F9UVG2cjXjUchYuoegfEAHnngnuX57Z0YaX9nyOQoc



Scale = 1:23.5

Plate Offsets (X,Y)-- [3:0-3-0,Edge] 11-0-14 11-0-14

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 40 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.

**REACTIONS.** All bearings 11-0-14.  
 (lb) - Max Horz 1=96(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) except 7=116(LC 12), 6=114(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=298(LC 19), 6=296(LC 20)

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

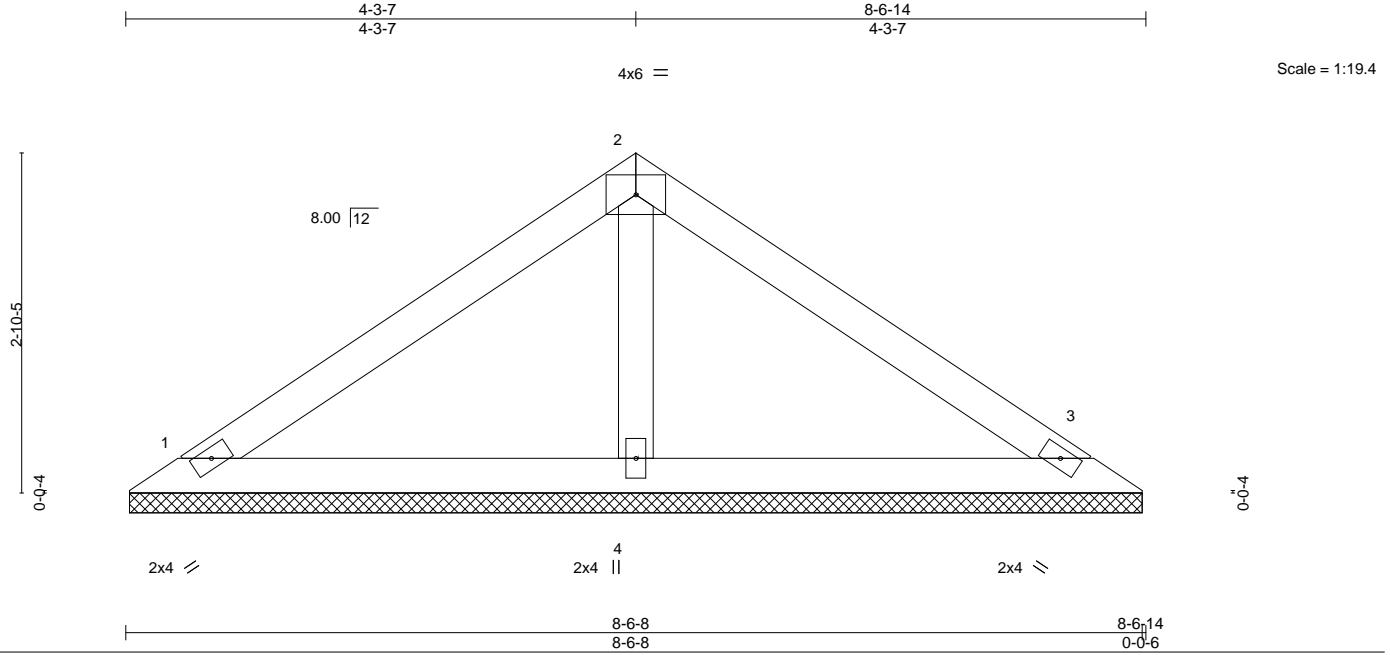
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 7 and 114 lb uplift at joint 6.



October 30, 2020

Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037480
MASTER	V02	Valley	1	1		

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:37:13 2020 Page 1  
 ID:uTzDxHiiHVmmObiTFpcz333zbfjJ-BYcFhkez3LkKwr2Am5iifis5kbZM21fsss3eEgyOQoa



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) n/a	-	n/a	999		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) n/a	-	n/a	999			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00	3	n/a	n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						Weight: 30 lb	FT = 20%

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

**REACTIONS.** (size) 1=8-6-2, 3=8-6-2, 4=8-6-2  
 Max Horz 1=-72(LC 10)  
 Max Uplift 1=-38(LC 12), 3=-48(LC 13), 4=-26(LC 12)  
 Max Grav 1=150(LC 1), 3=150(LC 1), 4=309(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=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) 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 38 lb uplift at joint 1, 48 lb uplift at joint 3 and 26 lb uplift at joint 4.

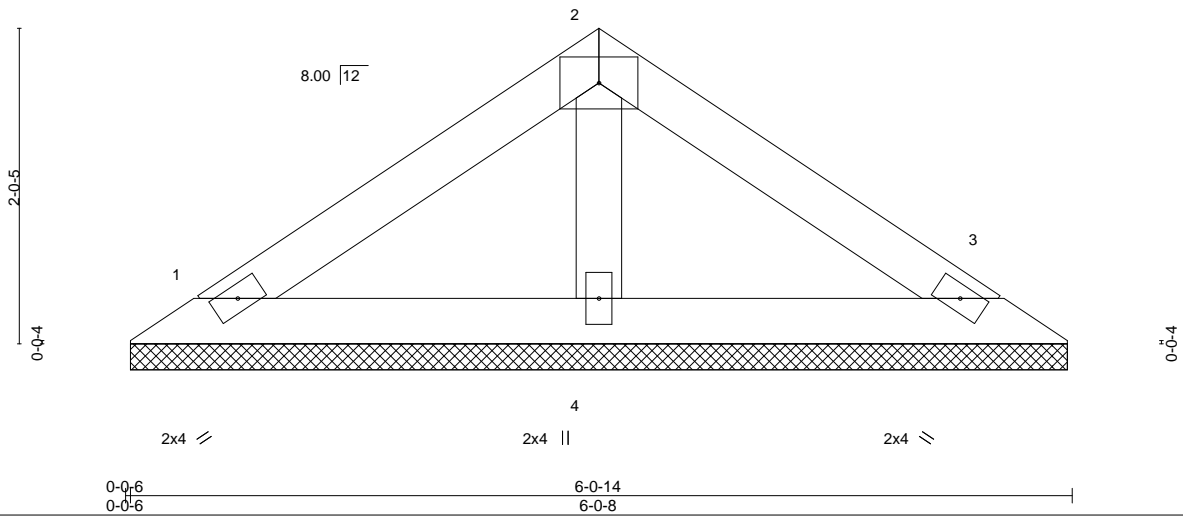


Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037481
MASTER	V03	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:37:14 2020 Page 1  
 ID:uTzDxHihVmmObiTFpcz333zbfjJ-fkAev4fbqesBY?dNKpDxowPlm?wqlUC04WoBm6yOQoZ



4x6 = Scale = 1:14.8



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a	Weight: 20 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.** (size) 1=6-0-2, 3=6-0-2, 4=6-0-2  
 Max Horz 1=-48(LC 8)  
 Max Uplift 1=-33(LC 12), 3=-39(LC 13), 4=-4(LC 12)  
 Max Grav 1=110(LC 1), 3=110(LC 1), 4=188(LC 1)

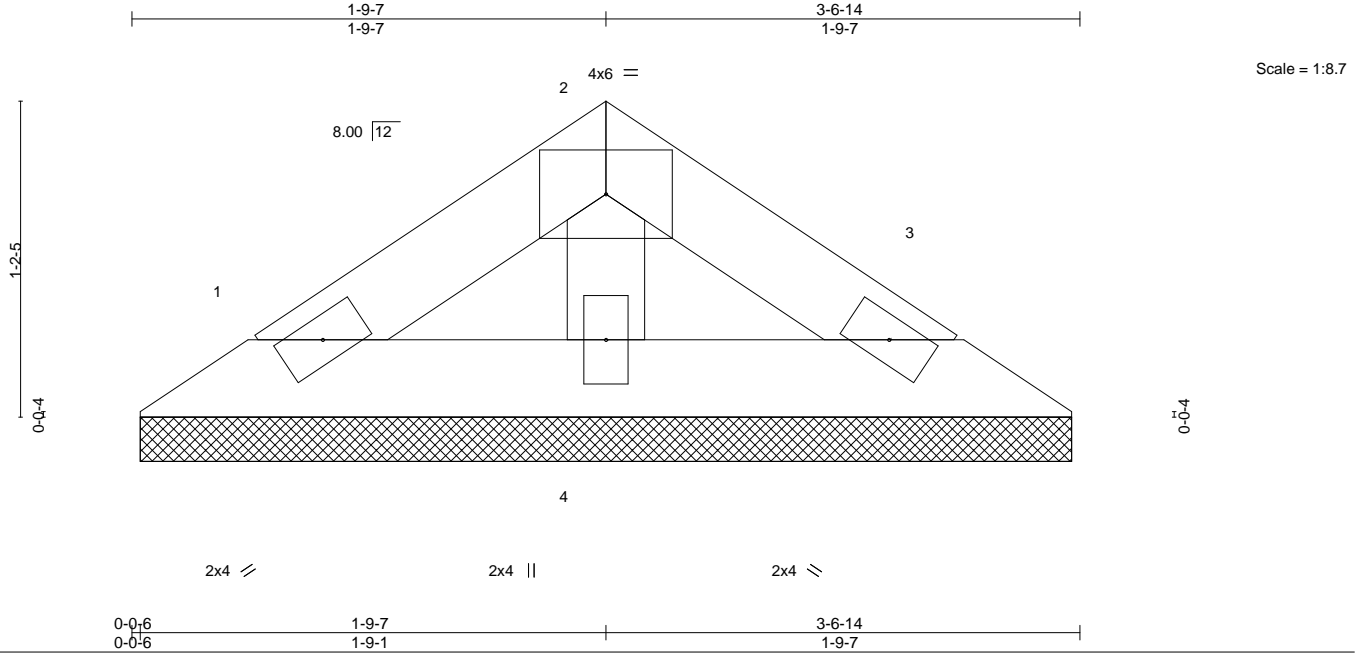
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1, 39 lb uplift at joint 3 and 4 lb uplift at joint 4.



Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037482
MASTER	V04	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:37:15 2020 Page 1  
 ID:uTzDxHiHVmmObiTfpcz333zbfjJ-7wk06QgDby\_299CZiWkAL7xUvOGq1xf9JAYIlyOQoY



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a	Weight: 11 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-6-14 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 1=3-6-2, 3=3-6-2, 4=3-6-2  
 Max Horz 1=-25(LC 10)  
 Max Uplift 1=-17(LC 12), 3=-20(LC 13), 4=-2(LC 12)  
 Max Grav 1=56(LC 1), 3=56(LC 1), 4=96(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=120mph (3-second gust) Vasd=95mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) 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 17 lb uplift at joint 1, 20 lb uplift at joint 3 and 2 lb uplift at joint 4.



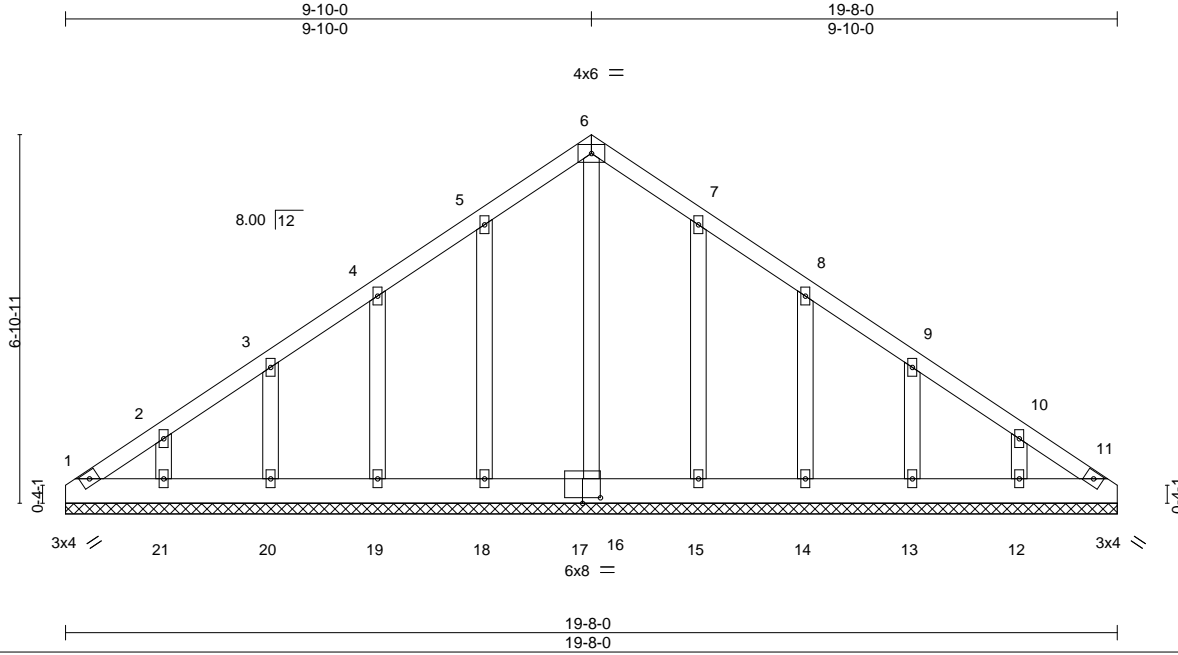


Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037483
MASTER	V05	Valley	1	1		

Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:37:17 2020 Page 1

ID:uTzDxHiHVmmObiTFpcz333zbfjJ-4JrmX5hU7ZEmPTLx?xmeQY1p2CyEVquSnU1sNRyOQoW



Scale = 1:43.1

Plate Offsets (X,Y)-- [16:0-1-12,0-0-0], [17:0-4-0,0-1-4], [17:0-0-0,0-2-12]

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 0.05	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	11	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 123 lb	FT = 20%

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

**REACTIONS.** All bearings 19-8-0.  
 (lb) - Max Horz 1=184(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 18, 19, 20, 21, 15, 14, 13, 12  
 Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 18, 19, 20, 21, 15, 14, 13, 12

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 18, 19, 20, 21, 15, 14, 13, 12.



October 30,2020

**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



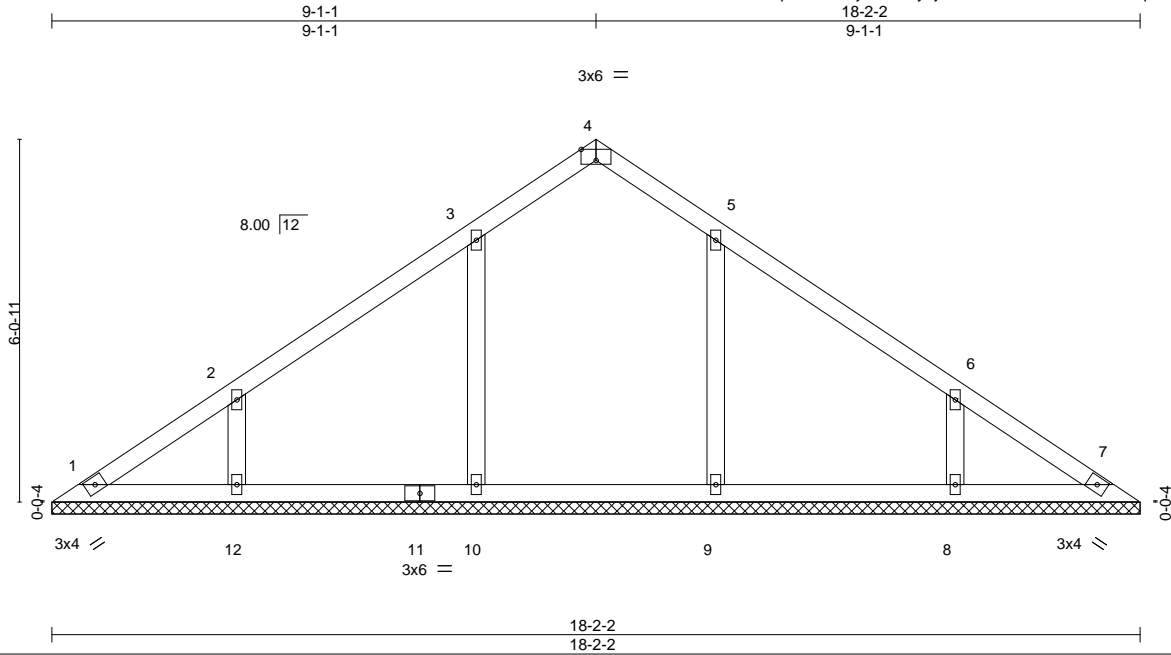
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037484
MASTER	V06	GABLE	1	1		

Builders FirstSource (Albermarle), Albermarle, NC - 28001,

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ID:uTzDxHiHVmmObiTFpcz333zbfjJ-0hzWynjkfBUTemVK6Mo6Vz67u0cqzkQIEoWYrJyOQoU



Scale = 1:38.5

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 75 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.

**REACTIONS.** All bearings 18-2-2.  
 (lb) - Max Horz 1=163(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) except 10=-124(LC 12), 12=-157(LC 12), 9=-119(LC 13), 8=-159(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=389(LC 19), 12=317(LC 19), 9=385(LC 20), 8=319(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-12=-268/199, 6-8=-268/200

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 124 lb uplift at joint 10, 157 lb uplift at joint 12, 119 lb uplift at joint 9 and 159 lb uplift at joint 8.



October 30, 2020

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

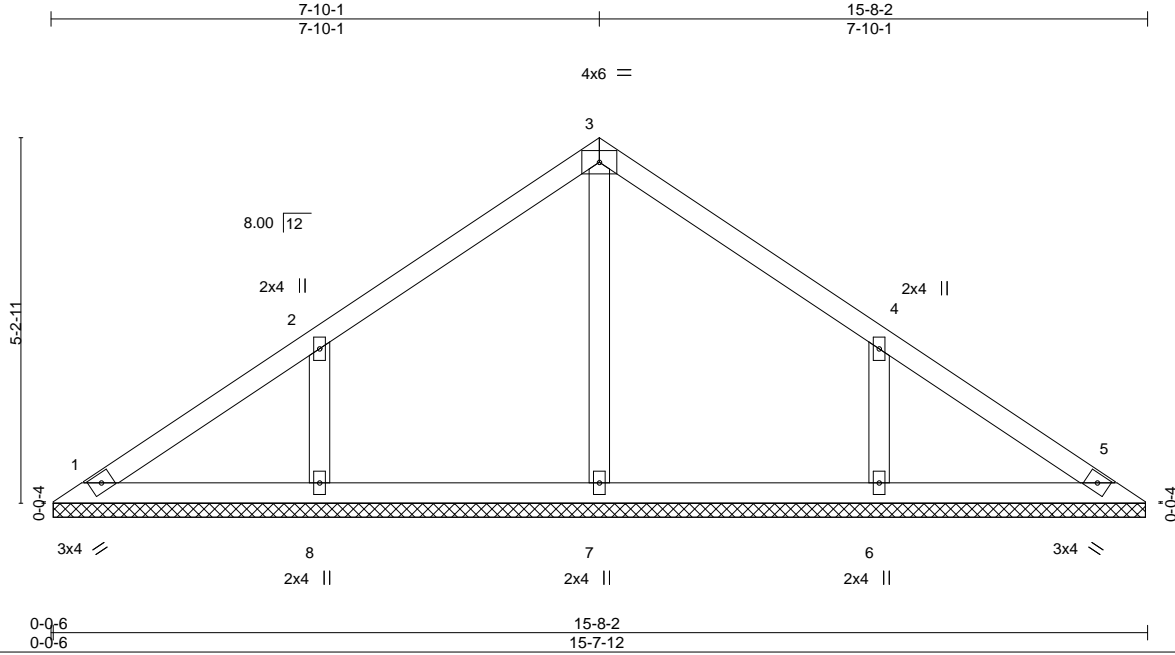
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037485
MASTER	V07	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:37:21 2020 Page 1  
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Scale = 1:32.9

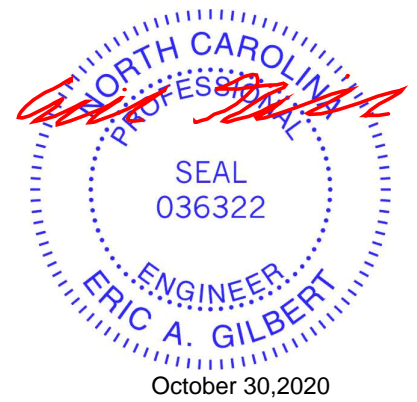
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a	Weight: 62 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 15-7-6.  
 (lb) - Max Horz 1=139(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-181(LC 12), 6=-181(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=252(LC 1), 8=379(LC 19), 6=379(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-8=-301/224, 4-6=-301/224

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) 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 except (jt=lb) 8=181, 6=181.

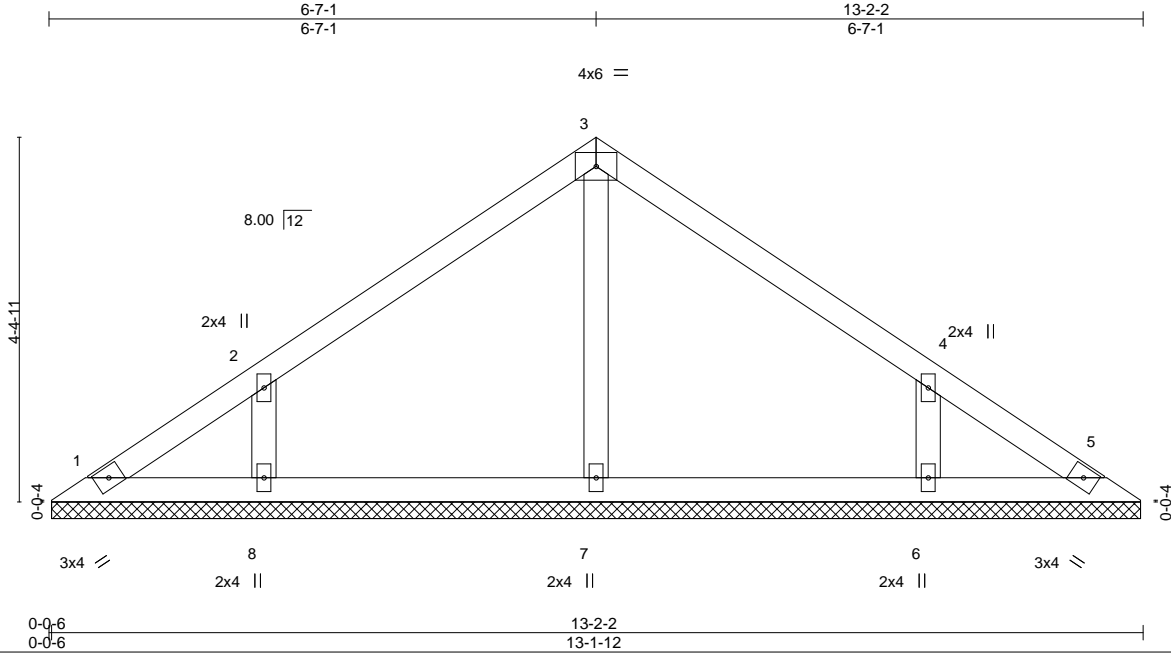


October 30,2020

Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037486
MASTER	V08	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:37:22 2020 Page 1  
 ID:uTzDxHiHVmmObiTFpzc333zbfjJ-QGffaplxc6s2VEEvoUMp7ckesDerA6aBwkd2eyOQoR



Scale = 1:27.7

<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 0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 50 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.

**REACTIONS.** All bearings 13-1-6.  
 (lb) - Max Horz 1=116(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=160(LC 12), 6=159(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=266(LC 1), 8=327(LC 19), 6=327(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-8=269/201, 4-6=269/201

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=160, 6=159.



October 30, 2020

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037487
MASTER	V09	GABLE	1	1		

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:37:23 2020 Page 1  
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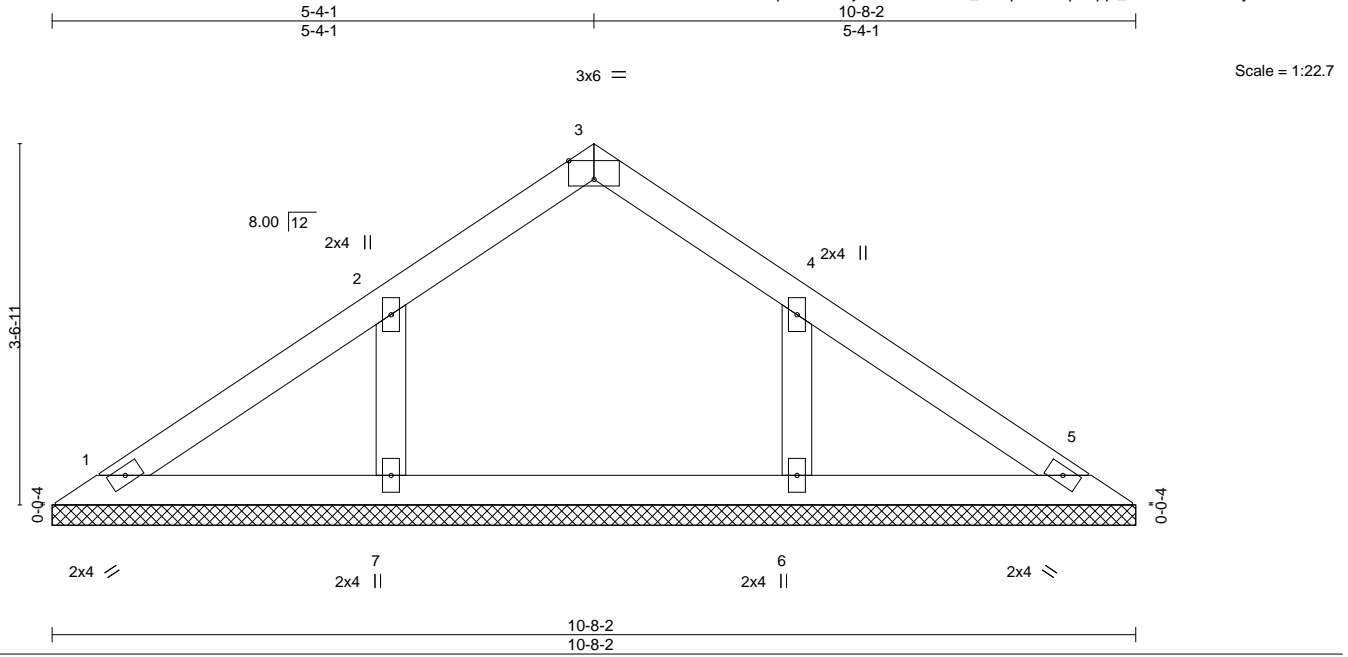


Plate Offsets (X,Y)-- [3:0-3-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 38 lb	FT = 20%

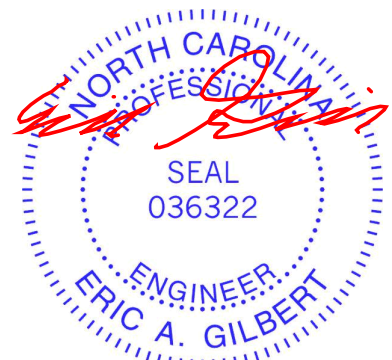
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 OTHERS 2x4 SP No.3

**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.

**REACTIONS.** All bearings 10-8-2.  
 (lb) - Max Horz 1=92(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) except 7=109(LC 12), 6=107(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=285(LC 19), 6=283(LC 20)

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

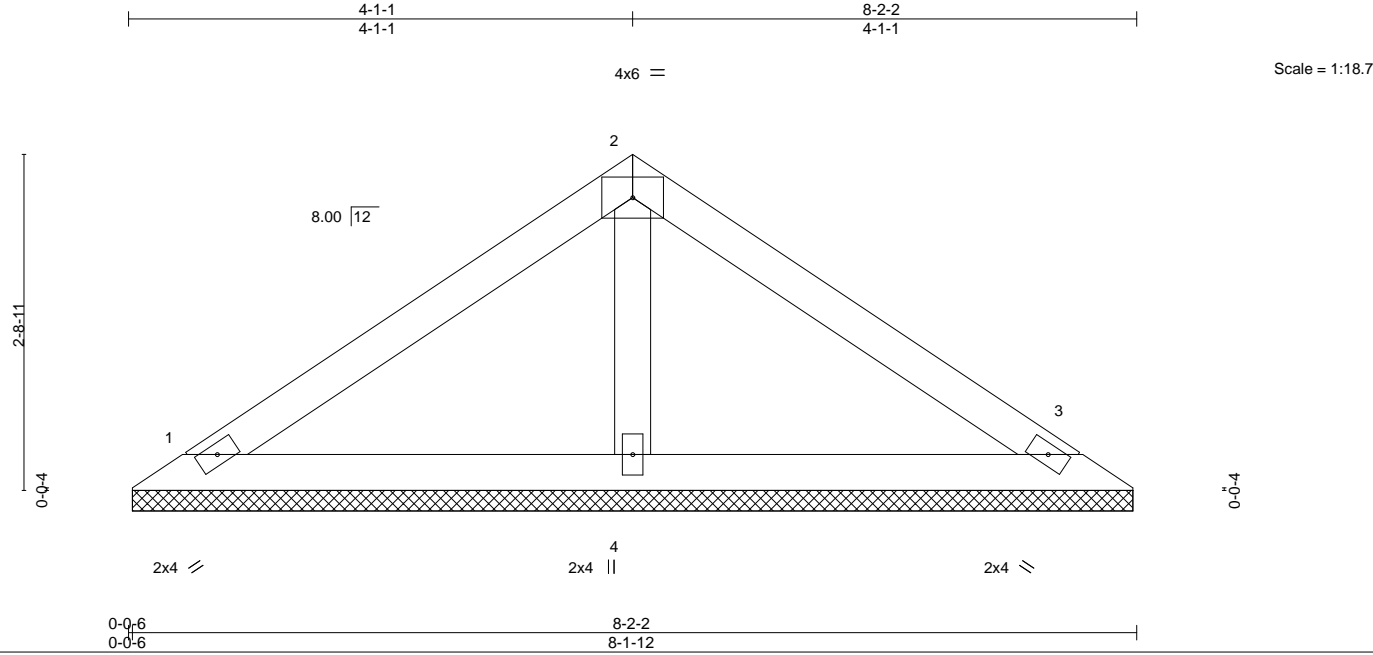
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 7 and 107 lb uplift at joint 6.



October 30, 2020

Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037488
MASTER	V10	Valley	1	1		

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:37:24 2020 Page 1  
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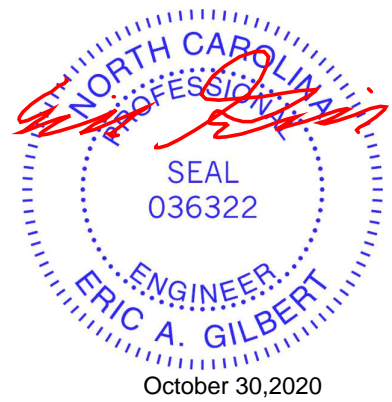
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 3 n/a n/a	Weight: 28 lb	FT = 20%
	Code IRC2015/TPI2014				

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

**REACTIONS.** (size) 1=8-1-6, 3=8-1-6, 4=8-1-6  
 Max Horz 1=-68(LC 8)  
 Max Uplift 1=-36(LC 12), 3=-45(LC 13), 4=-25(LC 12)  
 Max Grav 1=142(LC 1), 3=142(LC 1), 4=293(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=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) 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 36 lb uplift at joint 1, 45 lb uplift at joint 3 and 25 lb uplift at joint 4.

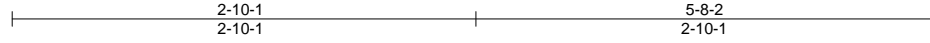


October 30, 2020



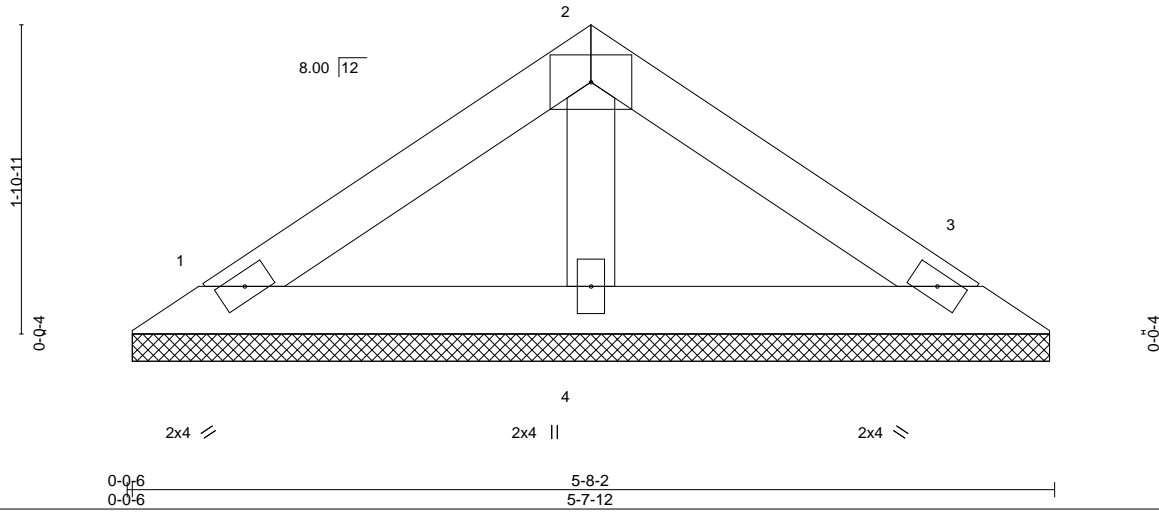
Job	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037489
MASTER	V11	Valley	1	1		

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:37:25 2020 Page 1  
 ID:uTzDxDxHiHVmmObiTFpcz333zbfjJ-rrKoCqnVE1EdMhyUTdvWkEMAGQhYNTydcjzHfzyOQoO



4x6 =

Scale = 1:14.1



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 19 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 5-8-2 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

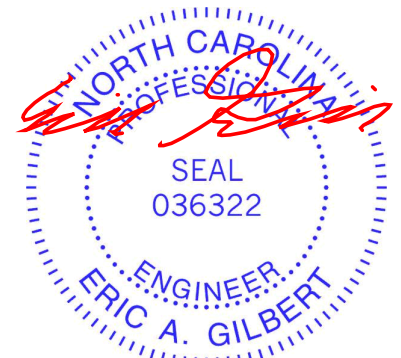
**REACTIONS.**

(size) 1=5-7-6, 3=5-7-6, 4=5-7-6  
 Max Horz 1=45(LC 9)  
 Max Uplift 1=30(LC 12), 3=36(LC 13), 4=3(LC 12)  
 Max Grav 1=102(LC 1), 3=102(LC 1), 4=174(LC 1)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1, 36 lb uplift at joint 3 and 3 lb uplift at joint 4.



October 30, 2020

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

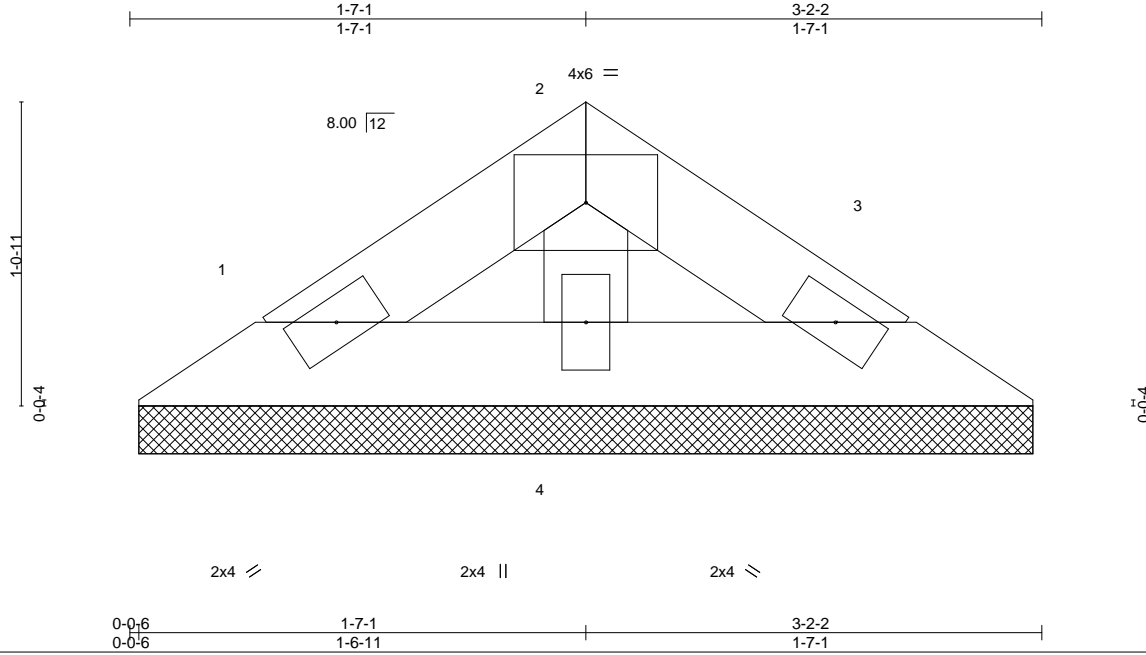
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Truss	Truss Type	Qty	Ply	A&G/Greenville/Lot54/KenianFarms/Lillin	E15037490
MASTER	V12	Valley	1	1		

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 21:37:25 2020 Page 1  
 ID:uTzDxHiHVmmObiTFpcz333zbfjJ-rrKoCqnVE1EdMhyUTdvWkEMBVQhENT9dcjzHfzyOQoO



Scale: 1.5"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.02	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 9 lb	FT = 20%
	Code IRC2015/TPI2014							

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-2-2 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

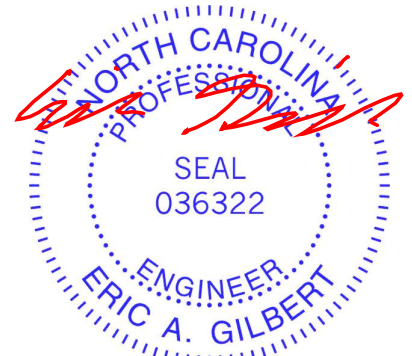
**REACTIONS.**

(size) 1=3-1-6, 3=3-1-6, 4=3-1-6  
 Max Horz 1=-21(LC 8)  
 Max Uplift 1=-14(LC 12), 3=-17(LC 13), 4=-2(LC 12)  
 Max Grav 1=48(LC 1), 3=48(LC 1), 4=82(LC 1)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1, 17 lb uplift at joint 3 and 2 lb uplift at joint 4.



October 30, 2020

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

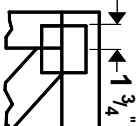
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



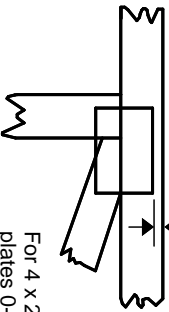
818 Soundside Road  
 Edenton, NC 27932

# 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.

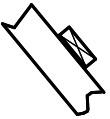
\* Plate location details available in **MITek 20/20 software or upon request.**

## PLATE SIZE

4 X 4

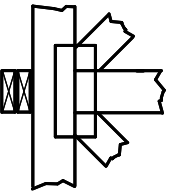
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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



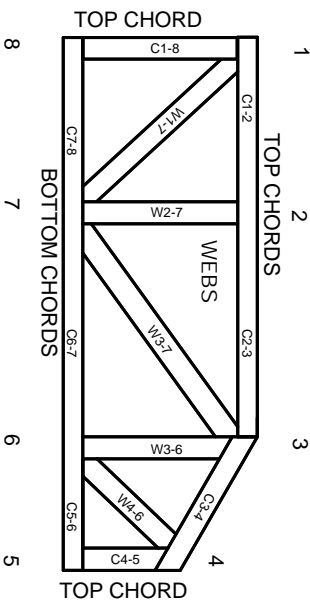
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TP1: 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/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-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 T or 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.