

RE: 4941378  
MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM

Trenco  
818 Soundside Rd  
Edenton, NC 27932

**Site Information:**

Customer: Project Name: 4941378  
Lot/Block:  
Address:  
City:

Model:  
Subdivision:  
State:

**General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):**

Design Code: IRC2015/TPI2014  
Wind Code: ASCE 7-10  
Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.8  
Wind Speed: 115 mph  
Floor Load: N/A psf

This package includes 41 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I77761839	A01G	11/13/2025	21	I77761859	B04GR	11/13/2025
2	I77761840	A02	11/13/2025	22	I77761860	B05G	11/13/2025
3	I77761841	A03	11/13/2025	23	I77761861	B06GR	11/13/2025
4	I77761842	A04	11/13/2025	24	I77761862	CV01GR	11/13/2025
5	I77761843	A05	11/13/2025	25	I77761863	CV02	11/13/2025
6	I77761844	A05A	11/13/2025	26	I77761864	CV03GR	11/13/2025
7	I77761845	A06	11/13/2025	27	I77761865	CV04GR	11/13/2025
8	I77761846	A08	11/13/2025	28	I77761866	CV05	11/13/2025
9	I77761847	A09G	11/13/2025	29	I77761867	CV06	11/13/2025
10	I77761848	A10G	11/13/2025	30	I77761868	CV07	11/13/2025
11	I77761849	A11	11/13/2025	31	I77761869	V01	11/13/2025
12	I77761850	A12G	11/13/2025	32	I77761870	V02	11/13/2025
13	I77761851	A13	11/13/2025	33	I77761871	V03	11/13/2025
14	I77761852	A14	11/13/2025	34	I77761872	V04	11/13/2025
15	I77761853	A15	11/13/2025	35	I77761873	V05	11/13/2025
16	I77761854	A16	11/13/2025	36	I77761874	V06	11/13/2025
17	I77761855	A17G	11/13/2025	37	I77761875	V07	11/13/2025
18	I77761856	B01G	11/13/2025	38	I77761876	V08	11/13/2025
19	I77761857	B02	11/13/2025	39	I77761877	V09	11/13/2025
20	I77761858	B03G	11/13/2025	40	I77761878	V10	11/13/2025

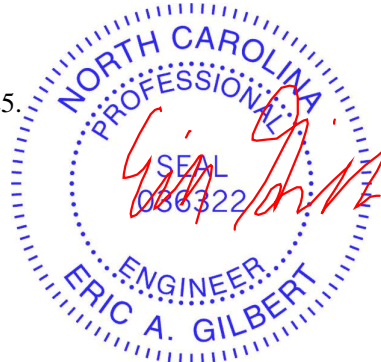
The truss drawing(s) referenced above have been prepared by  
Truss Engineering Co. under my direct supervision  
based on the parameters provided by Builders FirstSource (Apex,NC).

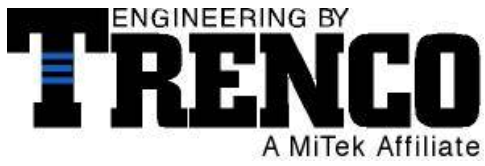
Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.





RE: 4941378 - MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM

Trenco  
818 Soundside Rd  
Edenton, NC 27932

**Site Information:**

Project Customer: Project Name: 4941378

Lot/Block: Subdivision:

Address:

City, County: State:

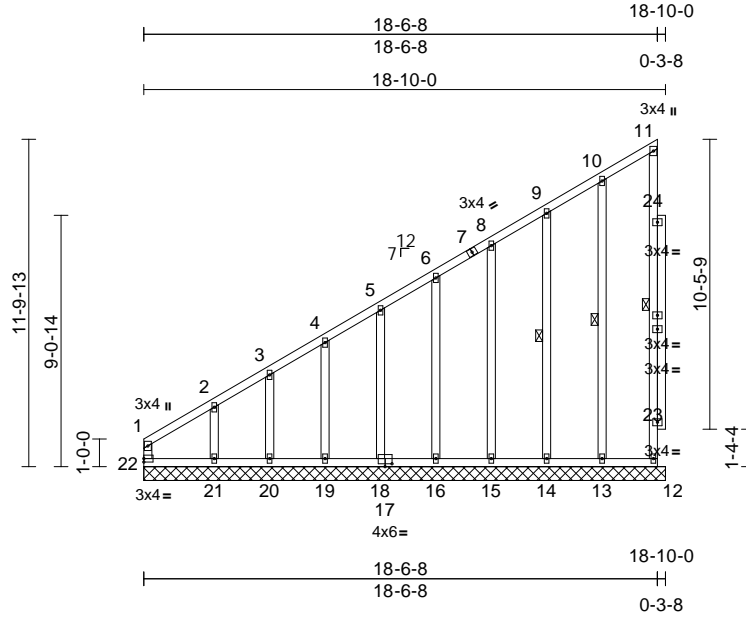
No.	Seal#	Truss Name	Date
41	I77761879	V11	11/13/2025

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	A01G	Monopitch Supported Gable	1	1	I77761839
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:20  
ID:v5s7p0VN15\_6goUaqUHsdUz9J1\_-RFC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:83.2

Plate Offsets (X, Y): [17:0-3-0,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.15	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 160 lb	FT = 20%

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 11-12:2x4 SP No.2
OTHERS	2x4 SP No.3 *Except* 23-24:2x4 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.
WEBS	1 Row at midpt 11-12, 10-13, 9-14

REACTIONS	(size)	12=18-10-0, 13=18-10-0, 14=18-10-0, 15=18-10-0, 16=18-10-0, 18=18-10-0, 19=18-10-0, 20=18-10-0, 21=18-10-0, 22=18-10-0
	Max Horiz	22=342 (LC 9)
	Max Uplift	12=22 (LC 9), 13=28 (LC 12), 14=34 (LC 12), 15=36 (LC 12), 16=35 (LC 12), 18=32 (LC 12), 19=45 (LC 12), 21=174 (LC 12), 22=110 (LC 10)
	Max Grav	12=695 (LC 19), 13=183 (LC 19), 14=155 (LC 19), 15=163 (LC 19), 16=163 (LC 19), 18=160 (LC 19), 19=171 (LC 19), 20=147 (LC 1), 21=277 (LC 19), 22=260 (LC 9)

#### FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-22=-283/241, 1-2=-487/470, 2-3=-386/375, 3-4=-363/361, 4-5=-321/324, 5-6=-283/292, 6-8=-243/259, 8-9=-204/226, 9-10=-171/201, 10-11=-137/154, 11-12=-668/79
BOT CHORD	21-22=-138/167, 20-21=-138/167, 19-20=-138/167, 18-19=-138/167, 16-18=-138/167, 15-16=-138/167, 14-15=-138/167, 13-14=-138/167, 12-13=-138/167

WEBS 10-13=-172/94, 9-14=-113/67, 8-15=-124/58, 6-16=-122/59, 5-18=-121/58, 4-19=-126/64, 3-20=-111/40, 2-21=-229/170

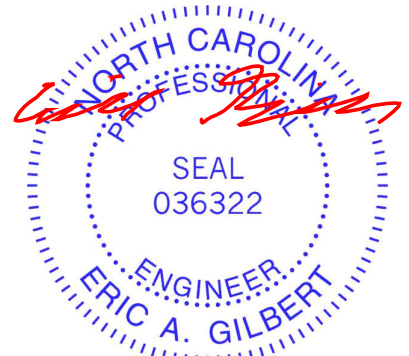
#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-1-12 to 3-1-12, Exterior (2) 3-1-12 to 18-4-12 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), 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 22, 22 lb uplift at joint 12, 28 lb uplift at joint 13, 34 lb uplift at joint 14, 36 lb uplift at joint 15, 35 lb uplift at joint 16, 32 lb uplift at joint 18, 45 lb uplift at joint 19 and 174 lb uplift at joint 21.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-4-12 on top 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  
Uniform Loads (lb/ft)  
Vert: 1-11=-60, 12-22=-20  
Concentrated Loads (lb)  
Vert: 11=-605



November 13, 2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacomponents.com](http://www.sbcacomponents.com))

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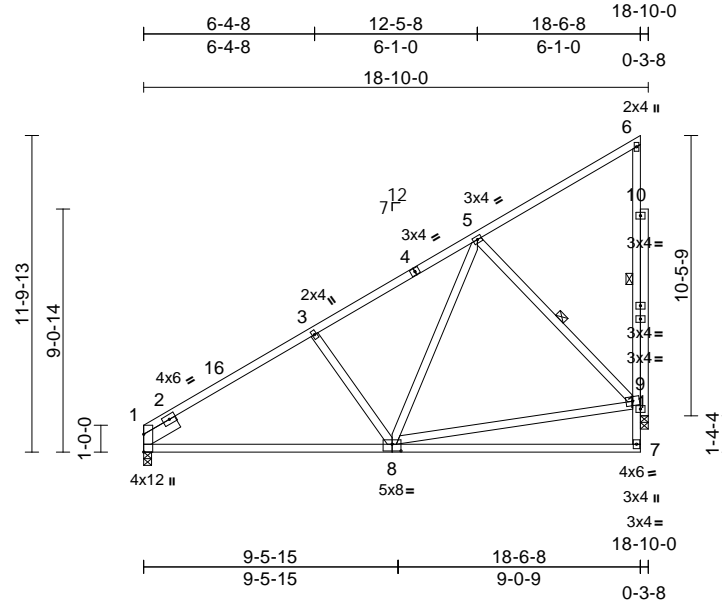
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	A02	Monopitch	4	1	I77761840
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:21  
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Page: 1



Scale = 1:86

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.15	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.32	7-8	>700	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.02	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.04	8-14	>999	240	Weight: 137 lb	FT = 20%

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 1-6-3

#### BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-5-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 1 Row at midpt 5-9, 6-7

REACTIONS	(size) 1=0-3-8, 11=0-3-8
	Max Horiz 1=337 (LC 11)
	Max Uplift 1=-7 (LC 12), 11=-170 (LC 12)
	Max Grav 1=736 (LC 1), 11=1391 (LC 19)

#### FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-3=-920/74, 3-5=-738/103, 5-6=-181/135, 7-11=0/161, 9-11=-1264/227, 6-9=-778/91
BOT CHORD	1-7=-397/802
WEBS	5-8=-20/467, 3-8=-303/160, 8-9=-290/628, 5-9=-608/179

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 18-4-12 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 170 lb uplift at joint 11.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-4-12 on top 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  
Uniform Loads (lb/ft)  
Vert: 1-6=-60, 7-12=-20  
Concentrated Loads (lb)  
Vert: 6=-605



November 13, 2025

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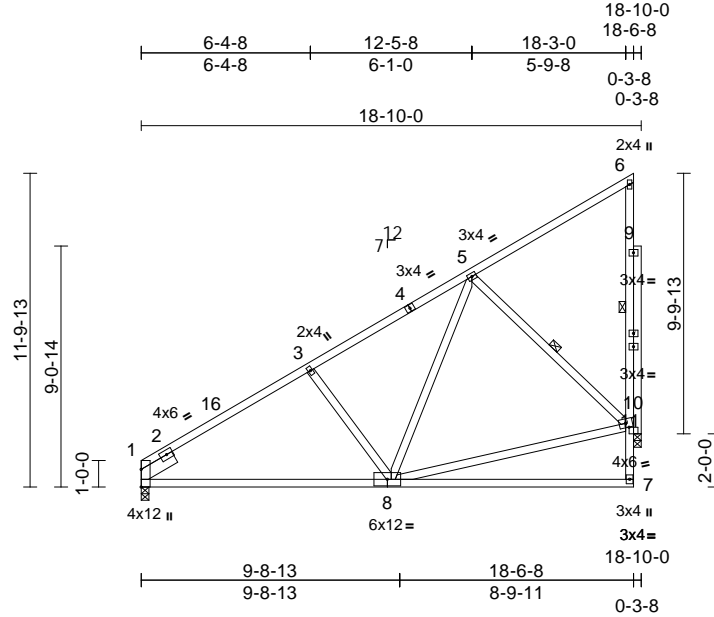
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	A03	Monopitch	2	1	I77761841
Job Reference (optional)					

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

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Page: 1



Scale = 1:86.8

Plate Offsets (X, Y): [10:0-1-8,0-1-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.16	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.32	7-8	>686	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.02	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.04	8-14	>999	240	Weight: 135 lb	FT = 20%

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 1-6-3

#### BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-5-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 1 Row at midpt 6-7, 5-10

<b>REACTIONS</b>	(size) 1=0-3-8, 11=0-3-8
	Max Horiz 1=337 (LC 11)
	Max Uplift 1=-7 (LC 12), 11=-170 (LC 12)
	Max Grav 1=736 (LC 1), 11=1391 (LC 19)

#### FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-3=-921/74, 3-5=-738/103, 5-6=-177/136, 7-11=0/160, 10-11=-1206/217, 6-10=-779/91
BOT CHORD	1-7=-397/803
WEBS	3-8=-303/160, 5-8=-13/450, 8-10=-245/585, 5-10=-599/177

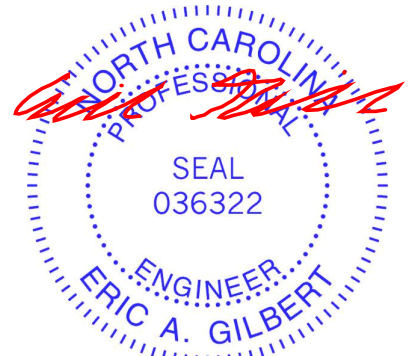
#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 18-4-12 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 170 lb uplift at joint 11.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-4-12 on top 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  
Uniform Loads (lb/ft)  
Vert: 1-6=-60, 7-12=-20  
Concentrated Loads (lb)  
Vert: 6=-605



November 13, 2025

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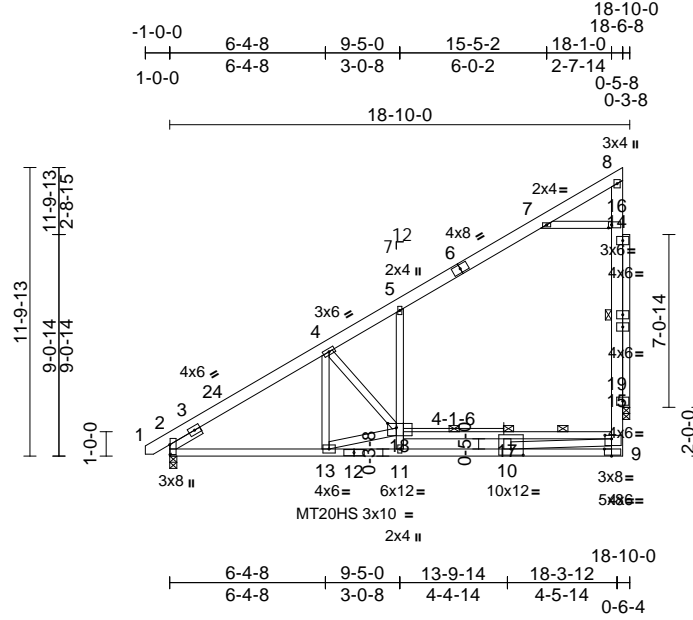
Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	A04	Monopitch	8	1	I77761842
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:22

Page: 1

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Scale = 1:94.3

Plate Offsets (X, Y): [2:0-4-14,0-0-2], [9:0-3-8,Edge], [15:0-3-4,0-1-12], [16:0-1-8,0-1-8], [17:0-6-0,0-3-0], [18:0-4-4,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.30	11-13	>737	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.57	11	>385	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.05	19	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.28	11-13	>778	240	Weight: 168 lb	FT = 20%

#### LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS *Except* 12-2:2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 8-9:2x6 SP 2400F 2.0E or 2x6 SP DSS, 15-10:2x4 SP No.2
OTHERS	2x4 SP No.2
SLIDER	Left 2x4 SP No.3 -- 1-6-0

#### BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 8-9
WEBS	3 Rows at 1/4 pts 15-18

REACTIONS	(size) 2=0-3-8, 19=0-3-8
	Max Horiz 2=340 (LC 11)
	Max Uplift 2=27 (LC 12), 19=191 (LC 12)
	Max Grav 2=870 (LC 1), 19=1663 (LC 19)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/25, 2-4=-1108/69, 4-5=-452/60, 5-7=-316/111, 7-8=-223/762, 9-15=0/113, 15-19=-16/641, 16-19=-1022/175, 8-16=-1008/170
BOT CHORD	2-13=-365/941, 11-13=-385/2688, 10-11=-395/2753, 9-10=-892/178
WEBS	11-18=-158/151, 5-18=0/210, 17-18=-2528/434, 15-17=-2524/433, 7-16=-828/294, 10-17=-260/40, 4-13=-76/725, 13-18=-1820/271, 4-18=-1051/243, 10-15=-445/3673

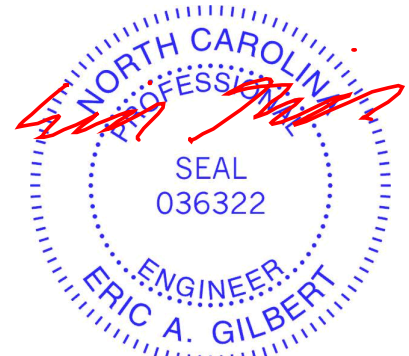
#### NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-0 to 2-2-0, Interior (1) 2-2-0 to 18-3-12 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2 and 191 lb uplift at joint 19.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-3-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S)

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-8=-60, 9-20=-20, 17-18=-40 (F), 15-17=-40 (F)  
Concentrated Loads (lb)  
Vert: 8=-605



November 13, 2025

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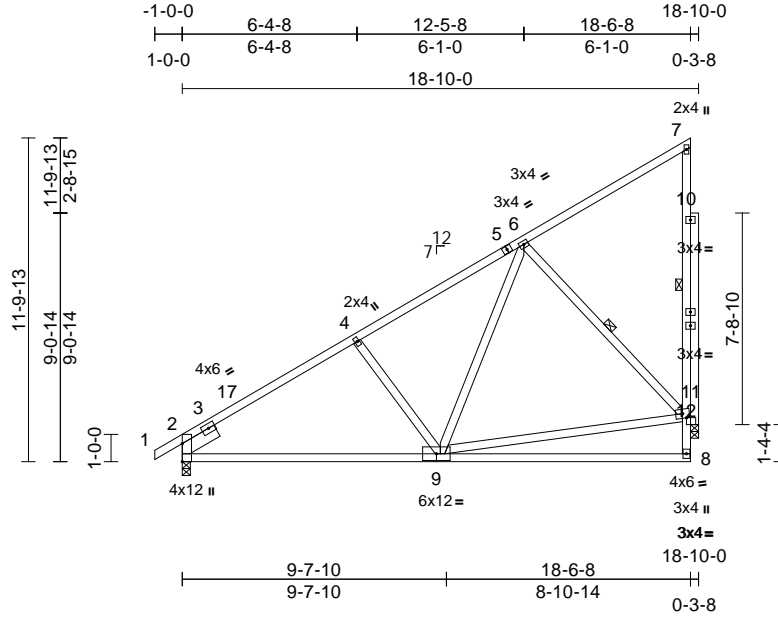
Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	A05	Monopitch	3	1	I77761843
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:22

Page: 1

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Scale = 1:84.1

Plate Offsets (X, Y): [11:0-1-12,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.15	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.32	8-9	>700	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.04	9-15	>999	240	Weight: 139 lb	FT = 20%

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -- 1-6-3

#### BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-4-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-8, 6-11

#### REACTIONS

(size)	2=0-3-8, 12=0-3-8
Max Horiz	2=345 (LC 11)
Max Uplift	2=22 (LC 12), 12=169 (LC 12)
Max Grav	2=797 (LC 1), 12=1390 (LC 19)

#### FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/30, 2-4=-916/70, 4-6=-734/100, 6-7=-183/138, 8-12=0/162, 11-12=-1197/239, 7-11=-779/90
BOT CHORD	2-8=-401/800
WEBS	4-9=-299/160, 6-9=-21/471, 9-11=-299/628, 6-11=-611/179

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 18-4-12 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 2 and 169 lb uplift at joint 12.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-4-12 on top 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  
Uniform Loads (lb/ft)  
Vert: 1-7=-60, 8-13=-20  
Concentrated Loads (lb)  
Vert: 7=605



November 13, 2025

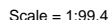
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:22 Page: 1  
ID:?Ga?05iyNNAeO90xIHCH8xz9l s-RfC?PsB70Hq3NSaPqnL8w3ulTXbGKWrCDoi?J4zJC?f



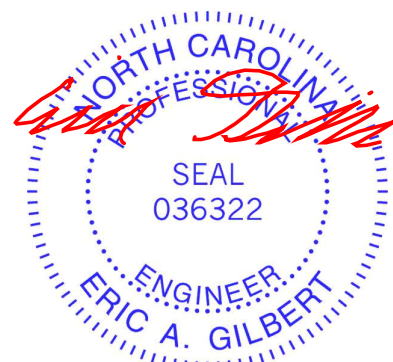
<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.39	12-14	>570	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.74	12-14	>298	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.07	21	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.37	12-14	>601	240	Weight: 166 lb	FT = 20%

- 3) Wind: ASCE 7-10; Vult=115mph (3-second gust)  
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat.  
II; Exp B; Enclosed; MWFRS (envelope) exterior zone  
and C-C Exterior (2) -0-10-0 to 2-2-0, Interior (1) 2-2-0 to  
18-3-12 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  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members.
- 6) Bearing at joint(s) 21 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 27 lb uplift at joint  
2 and 191 lb uplift at joint 21.
- 8) Hanger(s) or other connection device(s) shall be  
provided sufficient to support concentrated load(s) 622  
lb down and 51 lb up at 18-3-12 on top chord. The  
design/selection of such connection device(s) is the  
responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face  
of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15,  
Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-8=-60, 9-22=-20, 17-19=-40 (F), 17-20=-40  
(F), 16-20=-40 (F)  
Concentrated Loads (lb)  
Vert: 8=-605

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



November 13.2025



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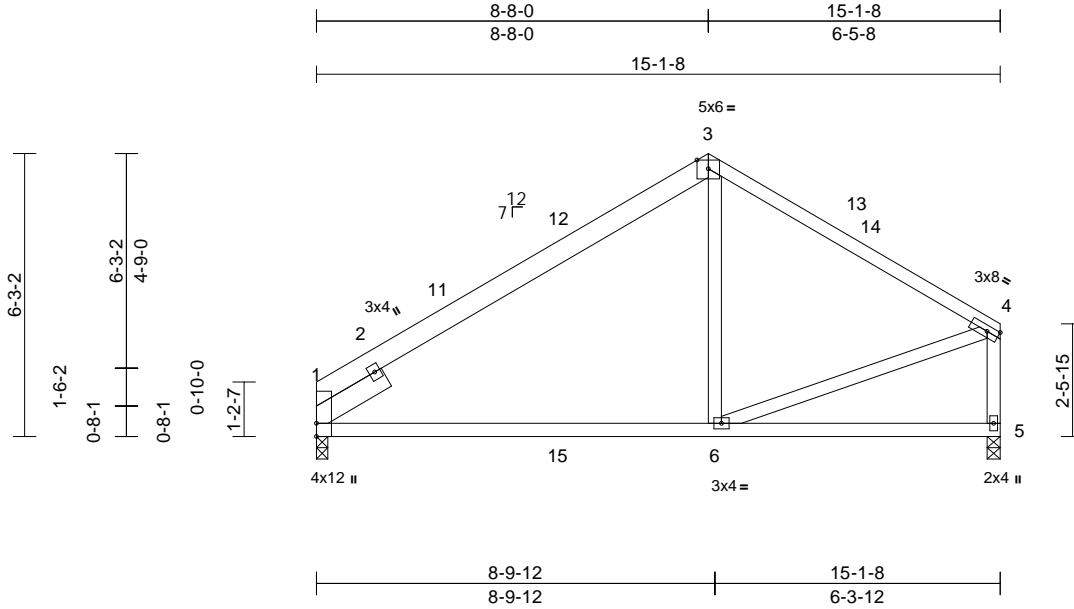


Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	A06	Common	1	1	I77761845
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:23  
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Page: 1



Scale = 1:51

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.09	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.20	6-9	>903	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.04	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.06	6-9	>999	240	Weight: 83 lb	FT = 20%

#### LUMBER

TOP CHORD 2x6 SP No.2 \*Except\* 3-4:2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\* 5-4:2x4 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) 1=0-3-0, 5=0-3-8  
Max Horiz 1=134 (LC 11)  
Max Uplift 1=-18 (LC 12), 5=-9 (LC 13)  
Max Grav 1=605 (LC 19), 5=599 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum  
Tension  
TOP CHORD 1-3=-627/63, 3-4=-594/65, 4-5=-555/64  
BOT CHORD 1-6=-146/473, 5-6=-30/66  
WEBS 3-6=0/220, 4-6=0/469

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust)  
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-8-0, Exterior (2) 8-8-0 to 11-8-0, Interior (1) 11-8-0 to 14-11-12 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
- 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 3-06-00 tall by 2-00-00 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 18 lb uplift at joint 1 and 9 lb uplift at joint 5.

**LOAD CASE(S)** Standard



November 13, 2025

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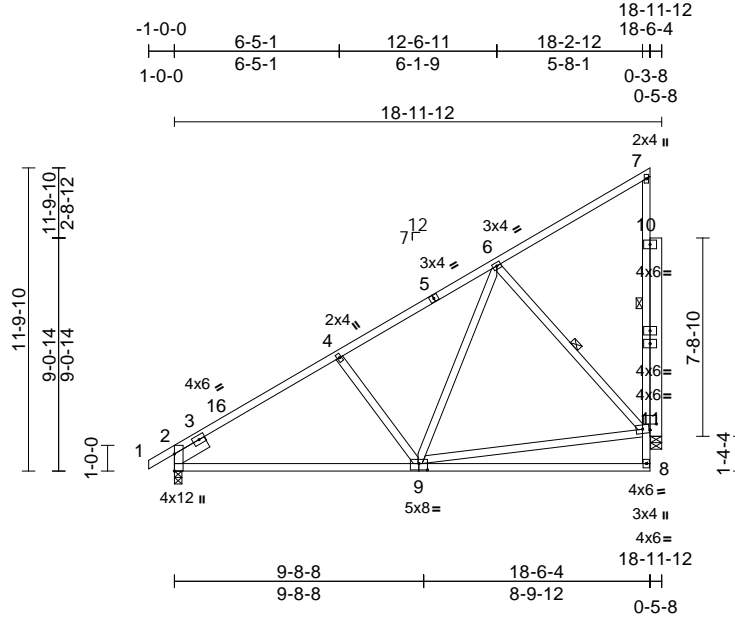
818 Soundside Road  
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Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	A08	Monopitch	6	1	I77761846
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:23  
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Page: 1



Scale = 1:89.7

Plate Offsets (X, Y): [9:0-4-0,0-3-0], [11:0-3-0,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.13	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.26	8-9	>840	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.04	9-14	>999	240	Weight: 145 lb	FT = 20%

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x6 SP No.2
SLIDER	Left 2x6 SP No.2 -- 1-6-4

#### BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS	1 Row at midpt	7-8, 6-11
------	----------------	-----------

REACTIONS	(size)	2=0-3-8, 11=0-5-4
	Max Horiz	2=345 (LC 11)
	Max Uplift	2=-23 (LC 12), 11=-168 (LC 12)
	Max Grav	2=807 (LC 1), 11=1378 (LC 19)

#### FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/30, 2-4=-928/73, 4-6=-736/100, 6-7=-191/137, 8-11=0/167, 7-11=-773/88
BOT CHORD	2-8=-405/808
WEBS	4-9=-306/161, 6-9=-18/483, 9-11=-264/512, 6-11=-621/175

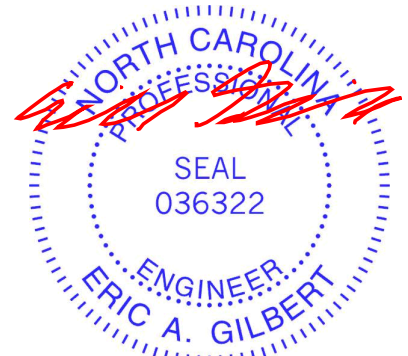
#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 18-4-8 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 2 and 168 lb uplift at joint 11.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-4-8 on top 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  
Uniform Loads (lb/ft)  
Vert: 1-7=-60, 8-12=-20  
Concentrated Loads (lb)  
Vert: 7=605



November 13, 2025

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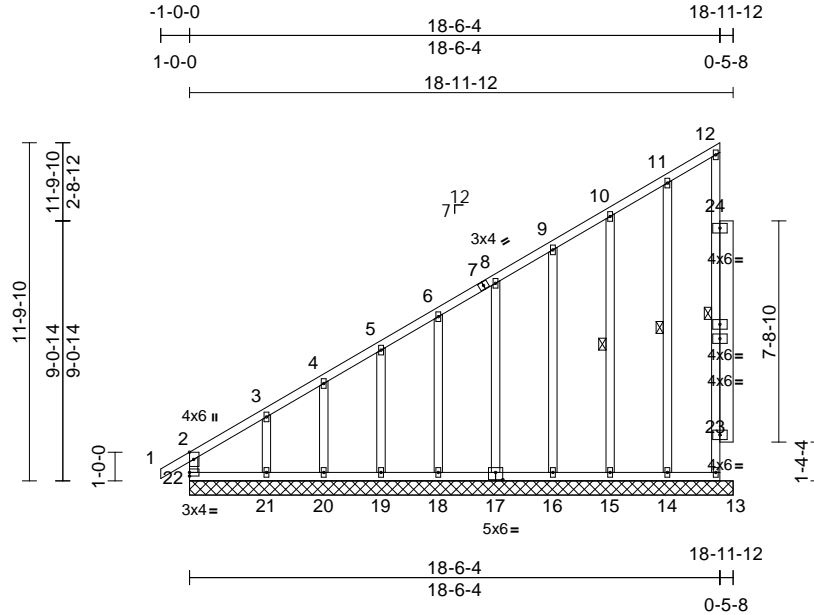
Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM I77761847
4941378	A09G	Monopitch Supported Gable	1	1	Job Reference (optional)

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:23

Page: 1

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Scale = 1:80.4

Plate Offsets (X, Y): [2:0-3-0,Edge], [17:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	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	NO	WB	0.15	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 169 lb	FT = 20%

<b>LUMBER</b>		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.3 *Except* 12-13:2x4 SP No.2	
OTHERS	2x4 SP No.3 *Except* 23-24:2x6 SP No.2	
<b>BRACING</b>		
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
WEBS	1 Row at midpt	12-13, 11-14, 10-15
<b>REACTIONS</b>	(size)	13=18-11-12, 14=18-11-12, 15=18-11-12, 16=18-11-12, 17=18-11-12, 18=18-11-12, 19=18-11-12, 20=18-11-12, 21=18-11-12, 22=18-11-12
	Max Horiz	22=351 (LC 9)
	Max Uplift	13=24 (LC 12), 14=22 (LC 12), 15=35 (LC 12), 16=35 (LC 12), 17=35 (LC 12), 18=32 (LC 12), 19=45 (LC 12), 21=170 (LC 12), 22=81 (LC 8)
	Max Grav	13=686 (LC 19), 14=177 (LC 19), 15=157 (LC 19), 16=163 (LC 19), 17=163 (LC 19), 18=160 (LC 19), 19=170 (LC 19), 20=152 (LC 1), 21=261 (LC 19), 22=282 (LC 20)
<b>FORCES</b>		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-22=276/194, 1-2=0/35, 2-3=490/471, 3-4=380/370, 4-5=361/359, 5-6=318/321, 6-8=280/289, 8-9=240/257, 9-10=201/223, 10-11=170/197, 11-12=141/159, 12-13=664/80	
BOT CHORD	21-22=137/166, 20-21=137/166, 19-20=137/166, 18-19=137/166, 16-18=137/166, 15-16=137/166, 14-15=137/166, 13-14=137/166	

WEBS 11-14=160/86, 10-15=114/64, 9-16=123/58, 8-17=122/59, 6-18=122/57, 5-19=126/65, 4-20=115/39, 3-21=240/189

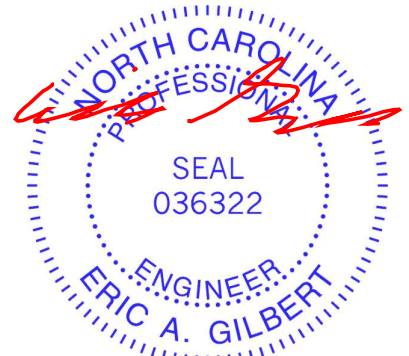
#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-0-0 to 2-0-0, Exterior (2) 2-0-0 to 18-4-8 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 22, 24 lb uplift at joint 13, 22 lb uplift at joint 14, 35 lb uplift at joint 15, 35 lb uplift at joint 16, 35 lb uplift at joint 17, 32 lb uplift at joint 18, 45 lb uplift at joint 19 and 170 lb uplift at joint 21.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 18-4-8 on top 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  
Uniform Loads (lb/ft)  
Vert: 1-2=-60, 2-12=-60, 13-22=-20  
Concentrated Loads (lb)  
Vert: 12=-605



November 13, 2025

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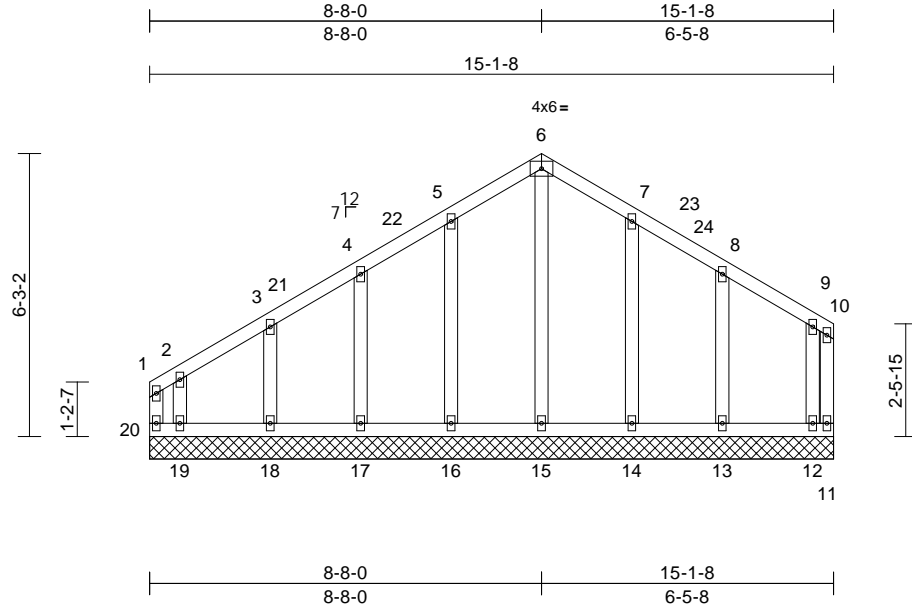
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	A10G	Common	2	1	I77761848
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:24  
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Page: 1



Scale = 1:51

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR						Weight: 93 lb	FT = 20%

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
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)	11=15-1-8, 12=15-1-8, 13=15-1-8, 14=15-1-8, 15=15-1-8, 16=15-1-8, 17=15-1-8, 18=15-1-8, 19=15-1-8, 20=15-1-8
Max Horiz	20=139 (LC 9)
Max Uplift	11=112 (LC 11), 12=83 (LC 8), 13=40 (LC 13), 14=34 (LC 13), 16=35 (LC 12), 17=36 (LC 12), 18=33 (LC 12), 19=211 (LC 9), 20=245 (LC 10)
Max Grav	11=82 (LC 8), 12=195 (LC 20), 13=170 (LC 20), 14=167 (LC 24), 15=154 (LC 19), 16=171 (LC 19), 17=160 (LC 19), 18=166 (LC 1), 19=281 (LC 10), 20=264 (LC 9)

#### FORCES

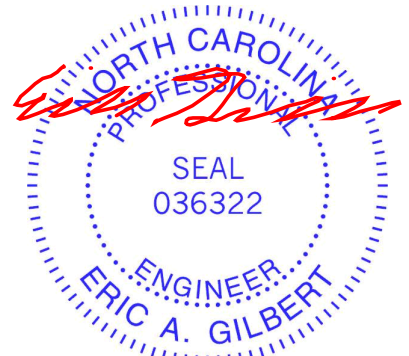
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-159/144, 2-3=-111/98, 3-4=-100/94, 4-5=-96/104, 5-6=-129/135, 6-7=-129/133, 7-8=-96/94, 8-9=-60/59, 9-10=-38/35, 1-20=-149/134, 10-11=-32/28
BOT CHORD	19-20=-37/35, 18-19=-37/35, 17-18=-37/35, 16-17=-37/35, 15-16=-37/35, 14-15=-37/35, 13-14=-37/35, 12-13=-37/35, 11-12=-37/35
WEBS	6-15=-114/34, 5-16=-131/60, 4-17=-119/59, 3-18=-127/61, 2-19=-158/110, 7-14=-128/58, 8-13=-130/65, 9-12=-103/54

#### NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-5-15 to 3-5-15, Interior (1) 3-5-15 to 9-0-3, Exterior (2) 9-0-3 to 12-0-3, Interior (1) 12-0-3 to 15-3-15 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 20, 112 lb uplift at joint 11, 35 lb uplift at joint 16, 36 lb uplift at joint 17, 33 lb uplift at joint 18, 211 lb uplift at joint 19, 34 lb uplift at joint 14, 40 lb uplift at joint 13 and 83 lb uplift at joint 12.

LOAD CASE(S) Standard



November 13, 2025

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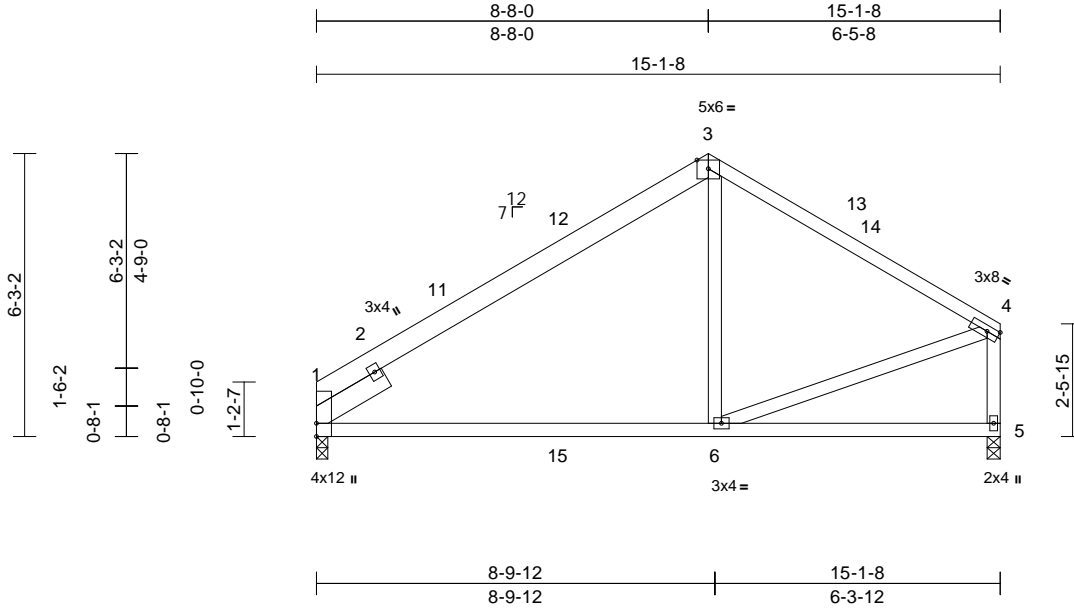
Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	A11	Common	23	1	I77761849
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:24

Page: 1

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Scale = 1:51

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.09	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.20	6-9	>903	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.04	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.06	6-9	>999	240	Weight: 83 lb	FT = 20%

#### LUMBER

TOP CHORD 2x6 SP No.2 \*Except\* 3-4:2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\* 5-4:2x4 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) 1=0-3-0, 5=0-3-8  
 Max Horiz 1=134 (LC 11)  
 Max Uplift 1=-18 (LC 12), 5=-9 (LC 13)  
 Max Grav 1=605 (LC 19), 5=599 (LC 1)

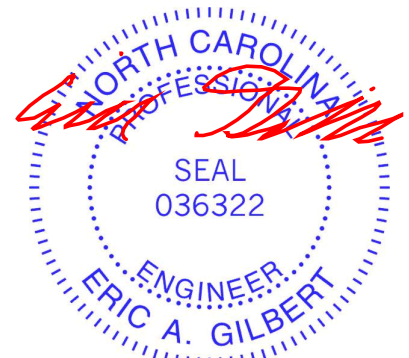
#### FORCES

(lb) - Maximum Compression/Maximum  
 Tension

TOP CHORD 1-3=-627/63, 3-4=-594/65, 4-5=-555/64  
 BOT CHORD 1-6=-146/473, 5-6=-30/66  
 WEBS 3-6=0/220, 4-6=0/469

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust)  
 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-8-0, Exterior (2) 8-8-0 to 11-8-0, Interior (1) 11-8-0 to 14-11-12 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
- 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 3-06-00 tall by 2-00-00 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 18 lb uplift at joint 1 and 9 lb uplift at joint 5.



November 13, 2025

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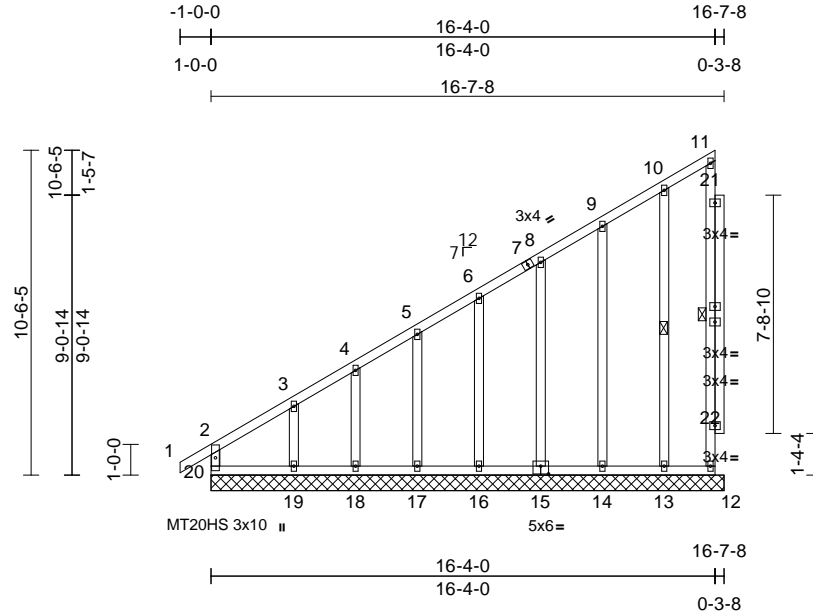


Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM 177761850
4941378	A12G	Monopitch Supported Gable	1	1	Job Reference (optional)

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:24  
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Page: 1



Scale = 1:74.7

Plate Offsets (X, Y): [15:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	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	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR								
Weight: 139 lb											FT = 20%	

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3 *Except* 21-22:2x4 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 6-0-0 oc bracing.
WEBS	1 Row at midpt 10-13, 11-12

REACTIONS	(size)	12=16-7-8, 13=16-7-8, 14=16-7-8, 15=16-7-8, 16=16-7-8, 17=16-7-8, 18=16-7-8, 19=16-7-8, 20=16-7-8
	Max Horiz	20=312 (LC 9)
	Max Uplift	12=24 (LC 9), 13=32 (LC 12), 14=33 (LC 12), 15=36 (LC 12), 16=32 (LC 12), 17=44 (LC 12), 19=155 (LC 12), 20=67 (LC 8)
	Max Grav	12=706 (LC 19), 13=169 (LC 19), 14=157 (LC 19), 15=163 (LC 19), 16=161 (LC 19), 17=169 (LC 19), 18=152 (LC 1), 19=253 (LC 19), 20=263 (LC 20)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	2-20=-240/161, 1-2=0/35, 2-3=-434/420, 3-4=-330/325, 4-5=-309/312, 5-6=-266/275, 6-8=-227/243, 8-9=-188/209, 9-10=-150/182, 10-11=-129/145, 11-12=-684/88
BOT CHORD	19-20=-126/155, 18-19=-126/155, 17-18=-126/155, 16-17=-126/155, 14-16=-126/155, 13-14=-126/155, 12-13=-126/155
WEBS	10-13=-151/78, 9-14=-114/63, 8-15=-124/58, 6-16=-121/58, 5-17=-126/64, 4-18=-115/42, 3-19=-228/176

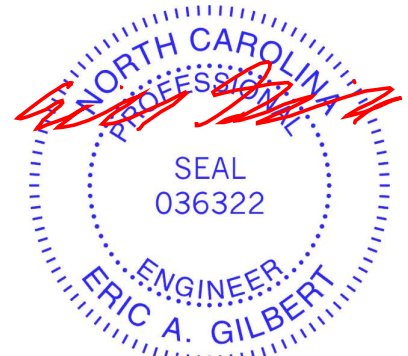
#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-0-0 to 2-0-0, Exterior (2) 2-0-0 to 16-2-4 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
- 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 MT20 plates unless otherwise indicated.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 12, 67 lb uplift at joint 20, 32 lb uplift at joint 13, 33 lb uplift at joint 14, 36 lb uplift at joint 15, 32 lb uplift at joint 16, 44 lb uplift at joint 17 and 155 lb uplift at joint 19.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 651 lb down and 51 lb up at 16-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

#### LOAD CASE(S)

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

Uniform Loads (lb/ft)  
Vert: 1-2=-60, 2-11=-60, 12-20=-20  
Concentrated Loads (lb)  
Vert: 11=-605



November 13,2025

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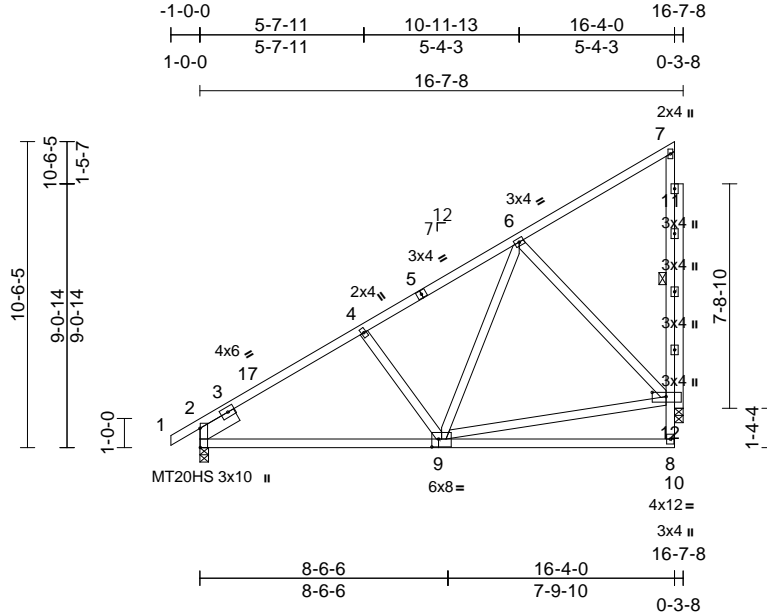
Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	A13	Monopitch	3	1	I77761851
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:24

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Scale = 1:79.3

Plate Offsets (X, Y): [2:0-7-15,Edge], [9:0-2-12,0-3-4], [10:0-5-12,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.09	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.19	8-9	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.02	9-15	>999	240	Weight: 124 lb	FT = 20%

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.2 *Except* 12-11:2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 1-6-3

#### BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins. Except: 6-0-0 oc bracing: 7-8
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-8

#### REACTIONS

(size)	2=0-3-8, 12=0-3-8
Max Horiz	2=306 (LC 11)
Max Uplift	2=-20 (LC 12), 12=-156 (LC 12)
Max Grav	2=709 (LC 1), 12=1298 (LC 19)

#### FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/30, 2-4=-786/66, 4-6=-630/93, 6-7=-162/123, 8-12=0/141, 10-12=-1125/210, 7-10=-759/85
BOT CHORD	2-8=-353/697
WEBS	4-9=-257/141, 6-9=-17/399, 9-10=-246/546, 6-10=-528/157

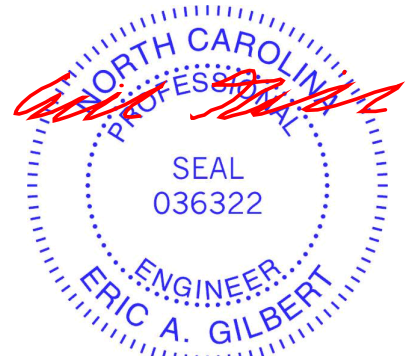
#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 16-2-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 2 and 156 lb uplift at joint 12.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 622 lb down and 51 lb up at 16-2-4 on top 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  
Uniform Loads (lb/ft)  
Vert: 1-7=-60, 8-13=-20  
Concentrated Loads (lb)  
Vert: 7=-605



November 13,2025

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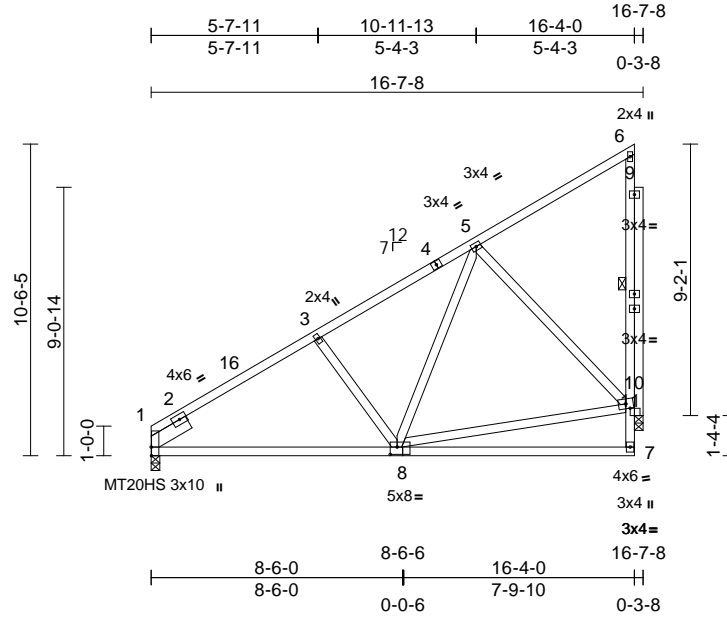
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	A14	Monopitch	1	1	I77761852
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:25  
ID:eVwaPHEkSoDhfeuVoBYP5Nz936e-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDdi7J4zJC?f

Page: 1



Scale = 1:77.9

Plate Offsets (X, Y): [1:0-3-8,Edge], [8:0-2-13,0-3-0], [10:0-1-12,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.07	7-8	>999	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.15	7-8	>999	240	MT20	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.02	8-14	>999	240	Weight: 122 lb	FT = 20%

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -- 1-6-3

#### BRACING

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

#### REACTIONS

(size)	1=0-3-8, 11=0-3-8
Max Horiz	1=299 (LC 11)
Max Uplift	1=-6 (LC 12), 11=-160 (LC 12)
Max Grav	1=648 (LC 1), 11=1346 (LC 19)

#### FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-3=-787/73, 3-5=-619/94, 5-6=-163/123, 7-11=0/133, 10-11=-1176/207, 6-10=-805/88
BOT CHORD	1-7=-353/697
WEBS	3-8=-265/140, 5-8=-12/393, 8-10=-240/553, 5-10=-530/155

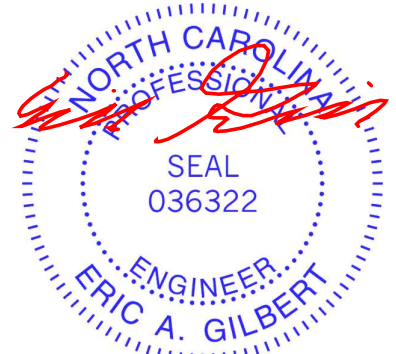
#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 16-2-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1 and 160 lb uplift at joint 11.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 668 lb down and 55 lb up at 16-2-4 on top 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  
Uniform Loads (lb/ft)  
Vert: 1-6=-60, 7-12=-20  
Concentrated Loads (lb)  
Vert: 6=-650



November 13, 2025

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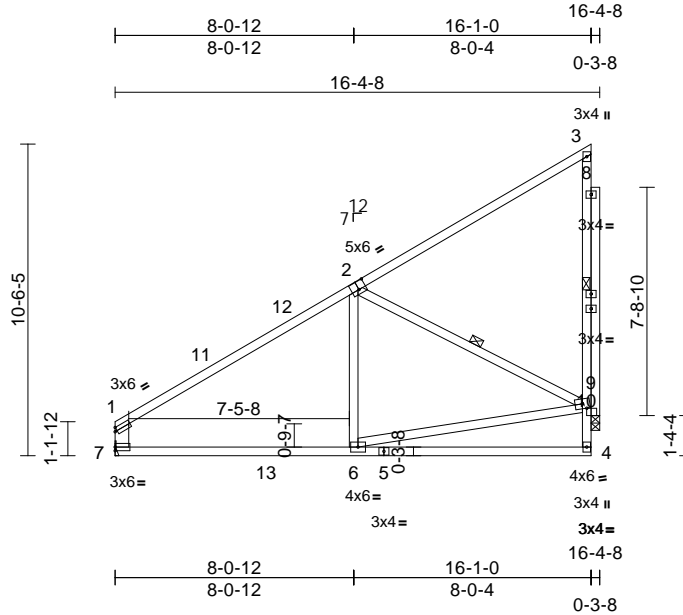
Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	A15	Jack-Closed	16	1	I77761853
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:25

Page: 1

ID:xsydpF6j21YeF8WzT1YTz9Go\_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i



Scale = 1:77.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.10	4-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.24	4-6	>795	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.35	Horz(CT)	-0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	-0.04	4-6	>999	240	Weight: 112 lb	FT = 20%

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 7-1:2x6 SP No.2
OTHERS	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 6-0-0 oc bracing.
WEBS	1 Row at midpt 3-4, 2-9

#### REACTIONS

(size)	7= Mechanical, 10=0-3-8
Max Horiz	7=303 (LC 9)
Max Uplift	10=78 (LC 12)
Max Grav	7=628 (LC 1), 10=1347 (LC 19)

#### FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-7=-531/72, 1-3=-747/148, 4-10=0/144, 9-10=-1176/239, 3-9=-855/116
BOT CHORD	6-7=-184/622, 4-6=-94/95
WEBS	2-6=0/261, 6-9=-287/715, 2-9=-639/117

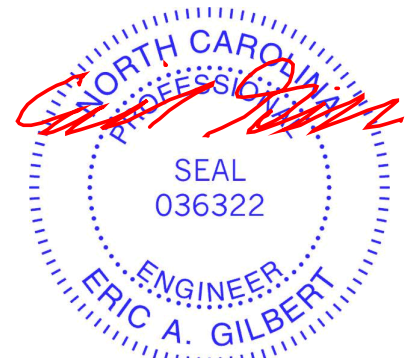
#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-5-12 to 3-5-12, Interior (1) 3-5-12 to 16-2-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 10.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 651 lb down and 51 lb up at 16-2-4 on top 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  
Uniform Loads (lb/ft)  
Vert: 1-3=-60, 4-7=-20  
Concentrated Loads (lb)  
Vert: 3=-605



November 13, 2025

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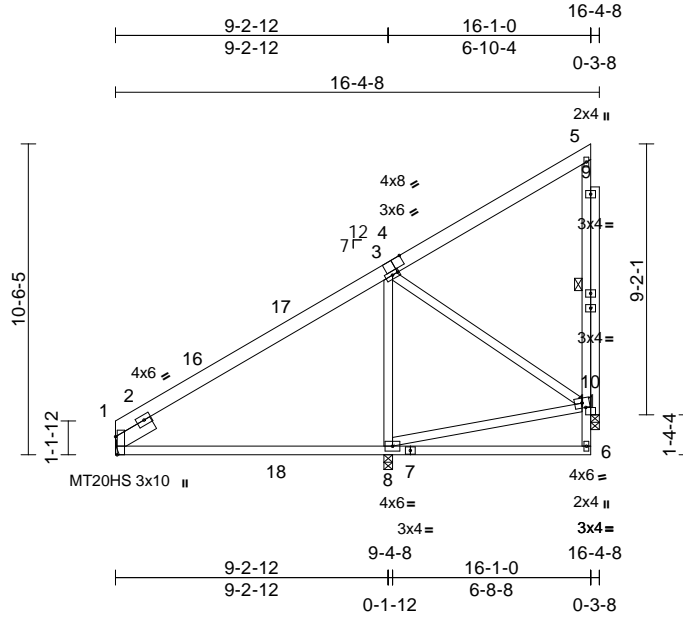
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	A16	Jack-Closed	4	1	I77761854
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:25  
ID:dLiAsmaQU04\_LkVMqd6Wahz938m-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:78

Plate Offsets (X, Y): [1:0-7-6,Edge], [4:0-4-0,Edge], [10:0-1-8,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.11	8-14	>986	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.23	8-14	>484	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.03	1	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	8-14	>999	240	Weight: 127 lb	FT = 20%

#### LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.2
SLIDER	Left 2x6 SP No.2 -- 1-6-0

#### BRACING

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

WEBS 1 Row at midpt 5-6

REACTIONS	(size) 1= Mechanical, 8=0-3-8, 11=0-3-8
	Max Horiz 1=295 (LC 11)
	Max Uplift 1=-83 (LC 12), 8=-23 (LC 10), 11=-211 (LC 12)
	Max Grav 1=621 (LC 19), 8=224 (LC 21), 11=1359 (LC 19)

#### FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-3=-631/185, 3-5=-196/126, 6-11=0/103, 10-11=-1232/297, 5-10=-812/86
BOT CHORD	1-8=-396/643, 6-8=-106/75
WEBS	3-8=-97/184, 8-10=-364/766, 3-10=-651/264

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-3-0 to 3-3-0, Interior (1) 3-3-0 to 16-2-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 1, 23 lb uplift at joint 8 and 211 lb uplift at joint 11.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 668 lb down and 55 lb up at 16-2-4 on top 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  
Uniform Loads (lb/ft)  
Vert: 1-5=-60, 6-12=-20  
Concentrated Loads (lb)  
Vert: 5=-650



November 13, 2025

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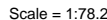
Page: 1

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

WEBS 9-12=-145/64, 8-13=-116/63, 7-14=-124/58,  
5-16=-122/58, 4-17=-125/62, 3-18=-118/41,  
2-19=-226/152

## NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust)  
Vasd=91mph; TCdL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 15-11-4 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) 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 11, 126 lb uplift at joint 20, 52 lb uplift at joint 12, 29 lb uplift at joint 13, 37 lb uplift at joint 14, 32 lb uplift at joint 16, 44 lb uplift at joint 17, 189 lb uplift at joint 19 and 53 lb uplift at joint 22.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 651 lb down and 51 lb up at 15-11-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

## LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15,  
Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-10=60, 11-20=20  
Concentrated Loads (lb)  
Vert: 10=605

November 13, 2025



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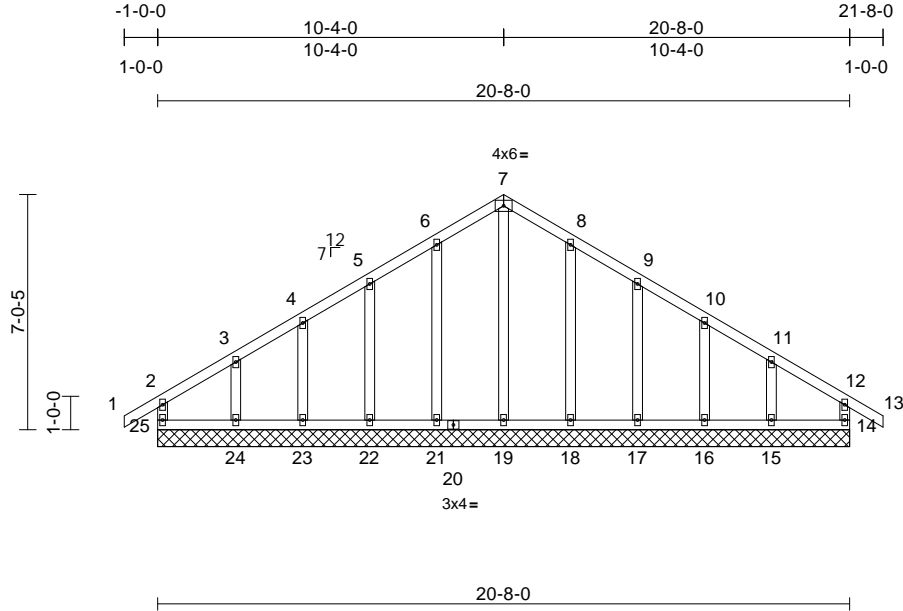
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	B01G	Common Supported Gable	1	1	I77761856
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:26  
ID:sfM2tQsmMqgP6YjZOkjwLz9JZN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:68.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	14	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							
										Weight: 124 lb	FT = 20%

#### LUMBER

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

#### BRACING

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

#### REACTIONS

(size)	14=20-8-0, 15=20-8-0, 16=20-8-0, 17=20-8-0, 18=20-8-0, 19=20-8-0, 21=20-8-0, 22=20-8-0, 23=20-8-0, 24=20-8-0, 25=20-8-0
Max Horiz	25=153 (LC 10)
Max Uplift	14=21 (LC 12), 15=65 (LC 13), 16=26 (LC 13), 17=38 (LC 13), 18=32 (LC 13), 21=33 (LC 12), 22=39 (LC 12), 23=25 (LC 12), 24=69 (LC 12), 25=36 (LC 8)
Max Grav	14=163 (LC 24), 15=193 (LC 20), 16=160 (LC 24), 17=163 (LC 20), 18=169 (LC 20), 19=174 (LC 22), 21=170 (LC 19), 22=163 (LC 19), 23=160 (LC 23), 24=201 (LC 19), 25=172 (LC 20)

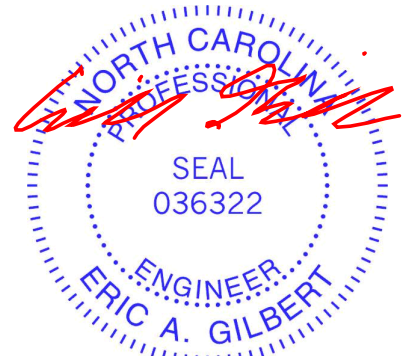
#### FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-25=-142/62, 1-2=0/35, 2-3=-97/87, 3-4=-70/81, 4-5=-89/105, 5-6=-122/136, 6-7=-155/173, 7-8=-155/173, 8-9=-122/136, 9-10=-89/95, 10-11=-58/72, 11-12=-75/65, 12-13=0/35, 12-14=-142/60
BOT CHORD	24-25=-67/75, 23-24=-67/75, 22-23=-67/75, 21-22=-67/75, 19-21=-67/75, 18-19=-67/75, 17-18=-67/75, 16-17=-67/75, 15-16=-67/75, 14-15=-67/75
WEBS	7-19=-134/59, 6-21=-130/57, 5-22=-122/62, 4-23=-121/53, 3-24=-141/81, 8-18=-129/56, 9-17=-122/62, 10-16=-121/53, 11-15=-136/78

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-0-0 to 2-0-0, Exterior (2) 2-0-0 to 10-4-0, Corner (3) 10-4-0 to 13-4-0, Exterior (2) 13-4-0 to 21-8-0 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 25, 21 lb uplift at joint 14, 33 lb uplift at joint 21, 39 lb uplift at joint 22, 25 lb uplift at joint 23, 69 lb uplift at joint 24, 32 lb uplift at joint 18, 38 lb uplift at joint 17, 26 lb uplift at joint 16 and 65 lb uplift at joint 15.

LOAD CASE(S) Standard



November 13, 2025

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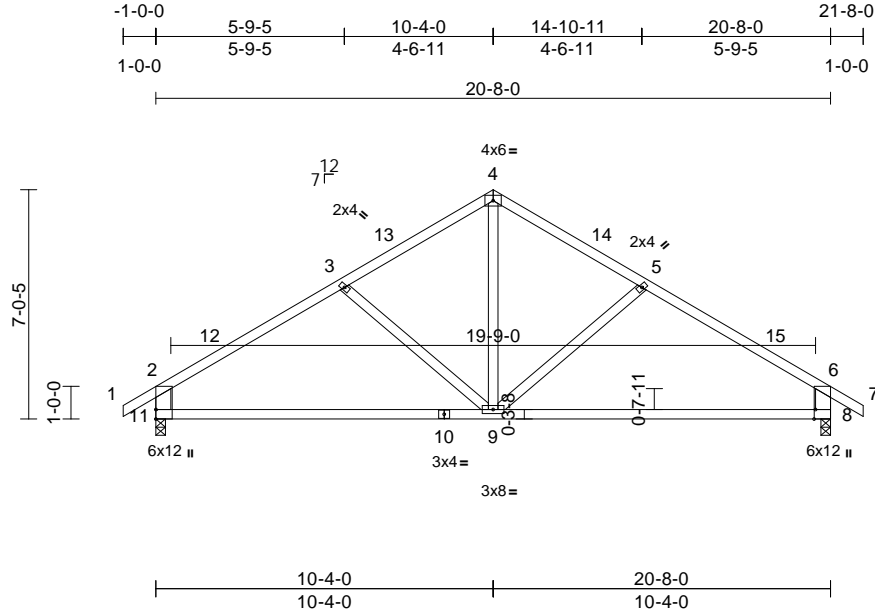
Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	B02	Common	2	1	I77761857
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:26

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Scale = 1:70.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.20	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.41	8-9	>587	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.05	9-11	>999	240	Weight: 100 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\* 11-2,8-6:2x6 SP No.2

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 11 and 39 lb uplift at joint 8.

LOAD CASE(S) Standard

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (size) 8=0-3-8, 11=0-3-8  
 Max Horiz 11=154 (LC 10)  
 Max Uplift 8=39 (LC 13), 11=39 (LC 12)  
 Max Grav 8=882 (LC 1), 11=882 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/37, 2-3=-1019/73, 3-4=-783/70, 4-5=-783/70, 5-6=-1019/73, 6-7=0/37, 2-11=-776/112, 6-8=-776/112

BOT CHORD 9-11=-54/778, 8-9=0/770  
 WEBS 4-9=0/479, 3-9=-209/150, 5-9=-209/150

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-4-0, Exterior (2) 10-4-0 to 13-4-0, Interior (1) 13-4-0 to 21-8-0 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



November 13, 2025

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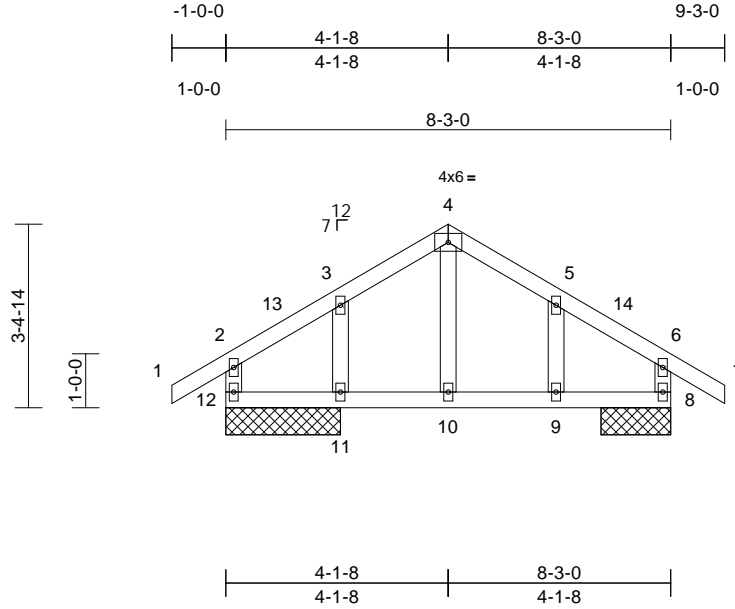
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	B03G	Common	1	1	I77761858
Job Reference (optional)					

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

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Scale = 1:42.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.03	9-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.01	9	>999	240	Weight: 41 lb	FT = 20%

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
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)	8=1-3-8, 11=2-1-8, 12=2-1-8
	Max Horiz	12=81 (LC 11)
	Max Uplift	8=-34 (LC 13), 11=-35 (LC 9), 12=-22 (LC 13)
	Max Grav	8=351 (LC 1), 11=175 (LC 19), 12=279 (LC 1)

FORCES	(lb) - Maximum Compression/Maximum Tension
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TOP CHORD	1-2=0/35, 2-3=-232/38, 3-4=-206/68, 4-5=-182/64, 5-6=-232/26, 6-7=0/35, 2-12=-247/84, 6-8=-280/73
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BOT CHORD	11-12=0/146, 10-11=0/146, 9-10=0/146, 8-9=0/146
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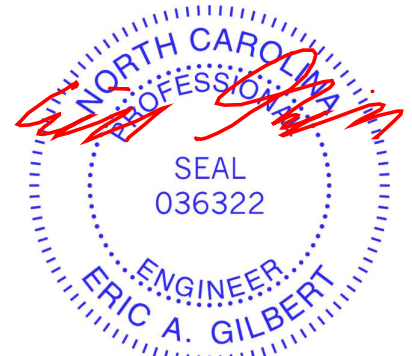
WEBS	4-10=-12/82, 3-11=-117/65, 5-9=-39/50
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#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-1-8, Interior (1) 2-1-8 to 4-1-8, Exterior (2) 4-1-8 to 7-1-8, Interior (1) 7-1-8 to 9-3-0 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

- 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 (II) MT20 unless otherwise indicated.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 12, 34 lb uplift at joint 8 and 35 lb uplift at joint 11.

LOAD CASE(S) Standard



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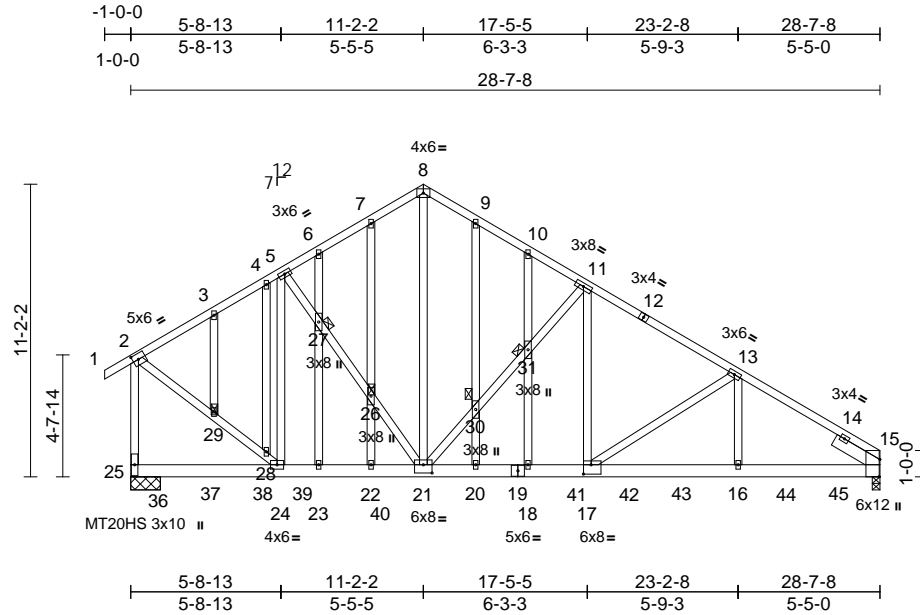


Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	B04GR	Common Girder	1	2	I77761859
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:27  
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Scale = 1:88

Plate Offsets (X, Y): [2:0-2-9,0-2-8], [15:0-7-15,Edge], [17:0-3-8,0-4-4], [21:0-4-0,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.14	16-17	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.27	16-17	>999	240	MT20HS 187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.06	15	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.03	24-25	>999	240	Weight: 567 lb FT = 20%

#### LUMBER

TOP CHORD	2x4 SP No.2 *Except* 12-15:2x4 SP No.1
BOT CHORD	2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS	2x4 SP No.3 *Except* 24-2:2x4 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 -- 1-11-12

#### BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-7-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

JOINTS 1 Brace at Jt(s): 26, 27, 29, 30, 31

REACTIONS (size) 15=0-3-8, 25=1-1-8  
Max Horiz 25=257 (LC 6)  
Max Grav 15=5291 (LC 1), 25=5493 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/35, 2-3=-3956/0, 3-4=-3855/0, 4-5=-3625/0, 5-6=-4131/0, 6-7=-4121/0, 7-8=-3991/0, 8-9=-3980/0, 9-10=-4091/0, 10-11=-4159/0, 11-13=-6253/0, 13-15=-7458/0, 2-25=-4707/0
BOT CHORD	24-25=-179/245, 23-24=0/3384, 22-23=0/3384, 21-22=0/3384, 20-21=0/5370, 18-20=0/5370, 17-18=0/5370, 16-17=0/6318, 15-16=0/6318
WEBS	2-29=0/4111, 28-29=0/4122, 24-28=0/4329, 5-24=-957/0, 5-27=-7/548, 26-27=0/572, 21-26=-3/574, 8-21=0/3596, 21-30=-2917/0, 30-31=-2861/0, 11-31=-2785/0, 11-17=0/2688, 13-17=-1153/0, 13-16=0/1167, 7-26=0/213, 22-26=0/223, 6-27=-67/0, 23-27=-113/0, 4-28=-46/338, 3-29=0/69, 9-30=0/188, 20-30=0/249, 10-31=-12/46, 18-31=0/112

#### NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Web 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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; 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 MT20 plates unless otherwise indicated.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 602 lb down and 95 lb up at 7-3-15, 602 lb down and 95 lb up at 9-3-15, 602 lb down and 95 lb up at 11-3-15, 602 lb down and 95 lb up at 12-10-3, 608 lb down at 15-9-11, 608 lb down at 17-3-15, 608 lb down at 19-3-15, 608 lb down at 21-3-15, 608 lb down at 23-3-15, 608 lb down at 25-3-15, 608 lb down at 27-3-15, 608 lb down at 29-3-15, and 608 lb down at 31-3-15, and 608 lb down at 33-3-15 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  
Uniform Loads (lb/ft)  
Vert: 1-2=-60, 2-8=-60, 8-15=-60, 25-32=-20  
Concentrated Loads (lb)  
Vert: 19=-608 (F), 21=-608 (F), 16=-608 (F), 20=-608 (F), 36=-589 (F), 37=-588 (F), 38=-588 (F), 39=-588 (F), 40=-608 (F), 41=-608 (F), 42=-608 (F), 43=-608 (F), 44=-608 (F), 45=-608 (F)



November 13, 2025

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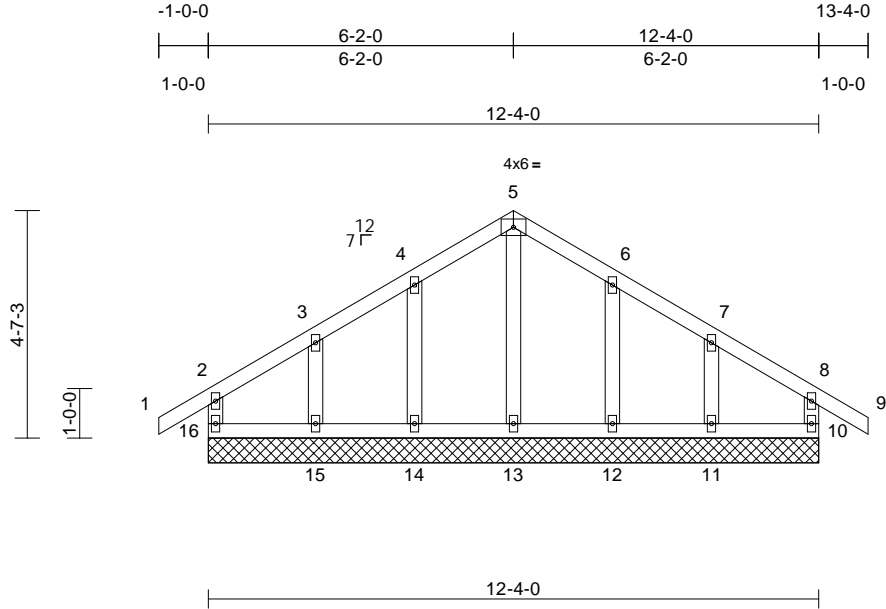


Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	B05G	Common Supported Gable	1	1	I77761860
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:27  
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Page: 1



Scale = 1:46.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 65 lb	FT = 20%

#### LUMBER

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

#### BRACING

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

<b>REACTIONS</b>	(size)	10=12-4-0, 11=12-4-0, 12=12-4-0, 13=12-4-0, 14=12-4-0, 15=12-4-0, 16=12-4-0
	Max Horiz	16=105 (LC 11)
	Max Uplift	10=20 (LC 12), 11=49 (LC 13), 12=33 (LC 13), 14=33 (LC 12), 15=50 (LC 12), 16=23 (LC 13)
	Max Grav	10=155 (LC 24), 11=175 (LC 20), 12=171 (LC 24), 13=154 (LC 1), 14=171 (LC 23), 15=179 (LC 19), 16=155 (LC 23)

#### FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-16=-136/75, 1-2=0/35, 2-3=-60/58, 3-4=-65/72, 4-5=-100/114, 5-6=-100/113, 6-7=-64/73, 7-8=-51/50, 8-9=0/35, 8-10=-136/73
BOT CHORD	15-16=-49/51, 14-15=-49/51, 13-14=-49/51, 12-13=-49/51, 11-12=-49/51, 10-11=-49/51
WEBS	5-13=-113/5, 4-14=-132/59, 3-15=-126/68, 6-12=-132/59, 7-11=-124/67

#### NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-0-0 to 2-2-0, Exterior (2) 2-2-0 to 6-2-0, Corner (3) 6-2-0 to 9-2-0, Exterior (2) 9-2-0 to 13-4-0 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 16, 20 lb uplift at joint 10, 33 lb uplift at joint 14, 50 lb uplift at joint 15, 33 lb uplift at joint 12 and 49 lb uplift at joint 11.

**LOAD CASE(S)** Standard



November 13, 2025

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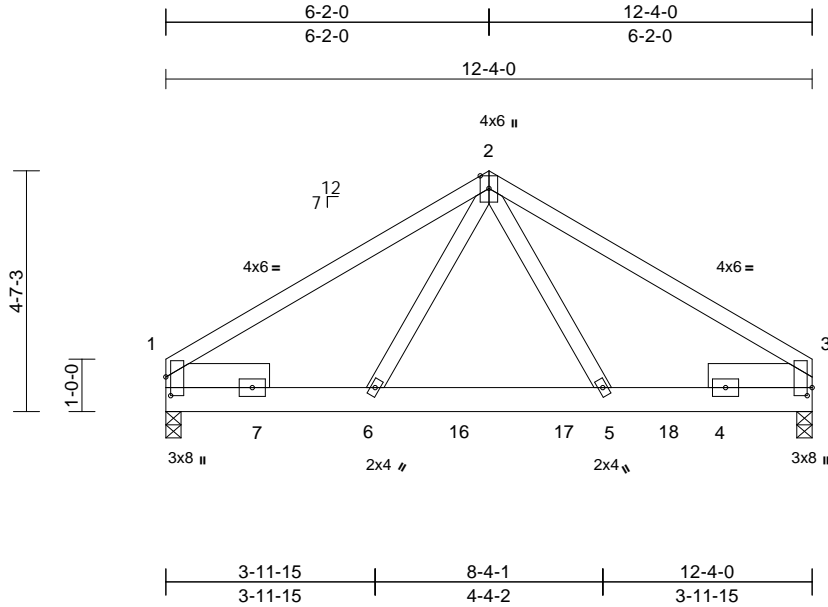
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	B06GR	Common Girder	1	2	I77761861
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:27  
ID:36j92l1Fei5TK51pj0d28yz9Gn\_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?i

Page: 1



Scale = 1:44

Plate Offsets (X, Y): [1:0-4-5,0-1-2], [3:0-1-14,0-1-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.04	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.08	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.00	5-6	>999	240	Weight: 146 lb	FT = 20%

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 1-11-12, Right 2x6 SP No.2 -- 1-11-12

#### 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=0-3-8, 3=0-3-8
Max Horiz	1=71 (LC 5)
Max Grav	1=2154 (LC 1), 3=2485 (LC 1)

#### FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-2762/0, 2-3=-2723/0
BOT CHORD	1-6=-94/2300, 5-6=0/1633, 3-5=-30/2266
WEBS	2-6=0/1425, 2-5=0/1353

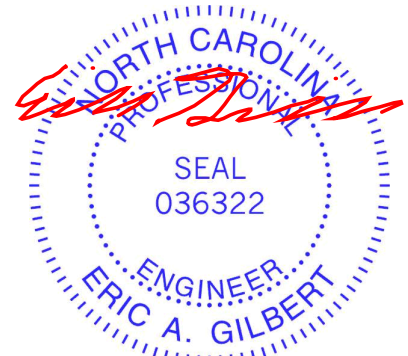
#### NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Web 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=115mph (3-second gust)  
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 608 lb down at 1-7-4, 608 lb down at 3-7-4, 608 lb down at 5-7-4, 608 lb down at 7-7-4, and 608 lb down at 9-7-4, and 611 lb down at 11-7-4 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  
Uniform Loads (lb/ft)  
Vert: 1-2=-60, 2-3=-60, 8-12=-20  
Concentrated Loads (lb)  
Vert: 6=-608 (F), 7=-608 (F), 14=-611 (F), 16=-608 (F), 17=-608 (F), 18=-608 (F)



November 13,2025

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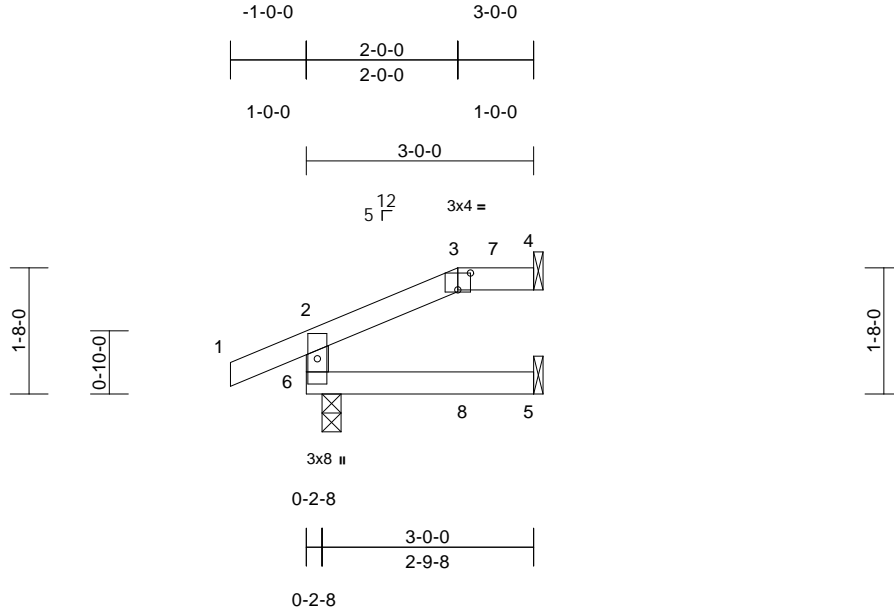
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	CV01GR	Half Hip Girder	2	1	I77761862
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:28  
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Page: 1



Scale = 1:30.4

Plate Offsets (X, Y): [3:0-2-0,0-2-11]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.00	5-6	>999	240	Weight: 11 lb	FT = 20%

#### LUMBER

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

#### BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS

(size)	4= Mechanical, 5= Mechanical, 6=0-3-0
Max Horiz	6=33 (LC 5)
Max Uplift	4=-23 (LC 5), 6=-21 (LC 4)
Max Grav	4=69 (LC 1), 5=52 (LC 3), 6=194 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/26, 2-3=-38/2, 3-4=0/0, 2-6=-167/44
BOT CHORD	5-6=0/0

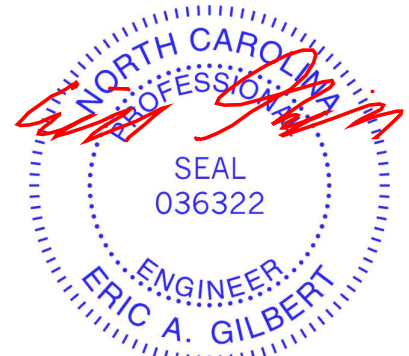
#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; 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 3-06-00 tall by 2-00-00 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 23 lb uplift at joint 4 and 21 lb uplift at joint 6.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 12 lb down and 14 lb up at 2-0-0 on top chord, and 5 lb down and 2 lb up at 2-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20  
Concentrated Loads (lb)  
Vert: 8=2 (F)



November 13, 2025

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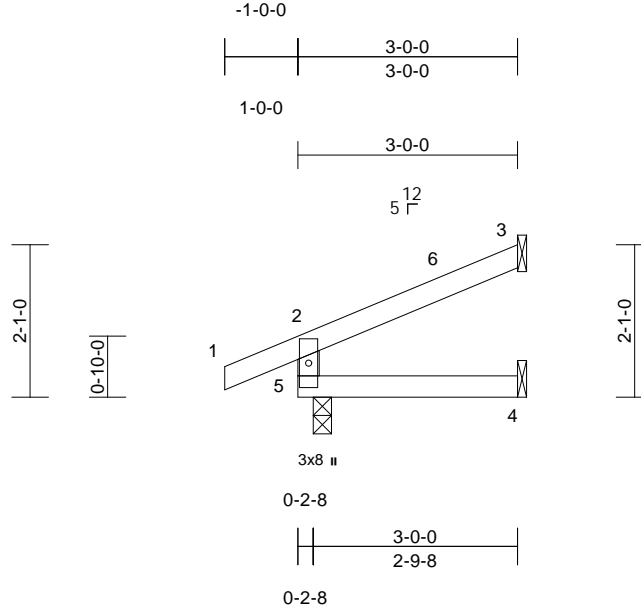
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	CV02	Jack-Open	3	1	I77761863
					Job Reference (optional)

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:28  
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Page: 1



Scale = 1:31.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.00	4-5	>999	240	Weight: 12 lb	FT = 20%

#### LUMBER

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

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 5 and 31 lb uplift at joint 3.

LOAD CASE(S) Standard

#### BRACING

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

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-0  
Max Horiz 5=42 (LC 12)  
Max Uplift 3=-31 (LC 12), 5=-14 (LC 8)  
Max Grav 3=70 (LC 1), 4=52 (LC 3), 5=195 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-167/92, 1-2=0/26, 2-3=-40/20  
BOT CHORD 4-5=0/0

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 2-11-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.



November 13, 2025

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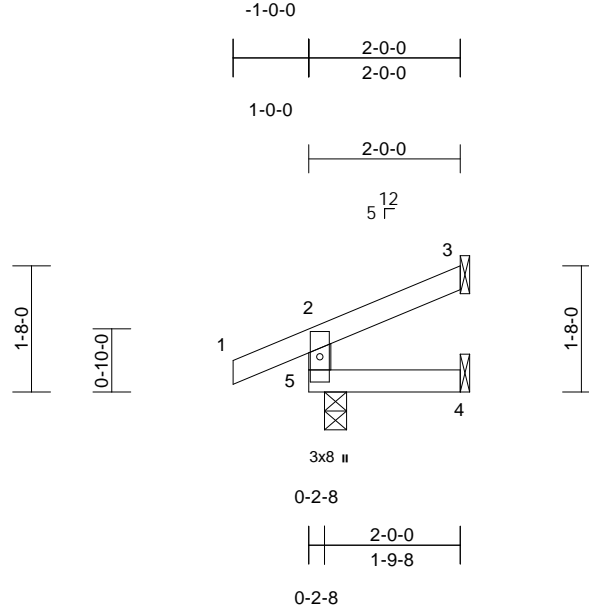
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	CV03GR	Jack-Open Girder	2	1	I77761864
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:28  
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Page: 1



Scale = 1:30.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 20%

#### 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  
2-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc  
bracing.

**REACTIONS** (size) 3= Mechanical, 4= Mechanical,  
5=0-3-8  
Max Horiz 5=33 (LC 5)  
Max Uplift 3=-20 (LC 8), 5=-18 (LC 4)  
Max Grav 3=38 (LC 1), 4=33 (LC 3), 5=164  
(LC 1)

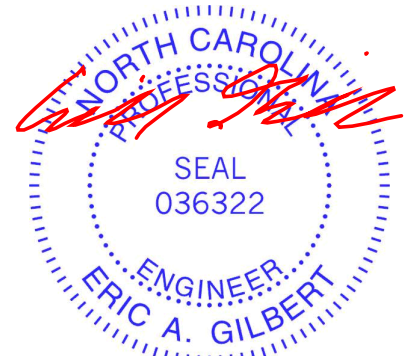
**FORCES** (lb) - Maximum Compression/Maximum  
Tension

TOP CHORD 2-5=-141/33, 1-2=0/26, 2-3=-28/10  
BOT CHORD 4-5=0/0

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust)  
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 5 and 20 lb uplift at joint 3.

**LOAD CASE(S)** Standard



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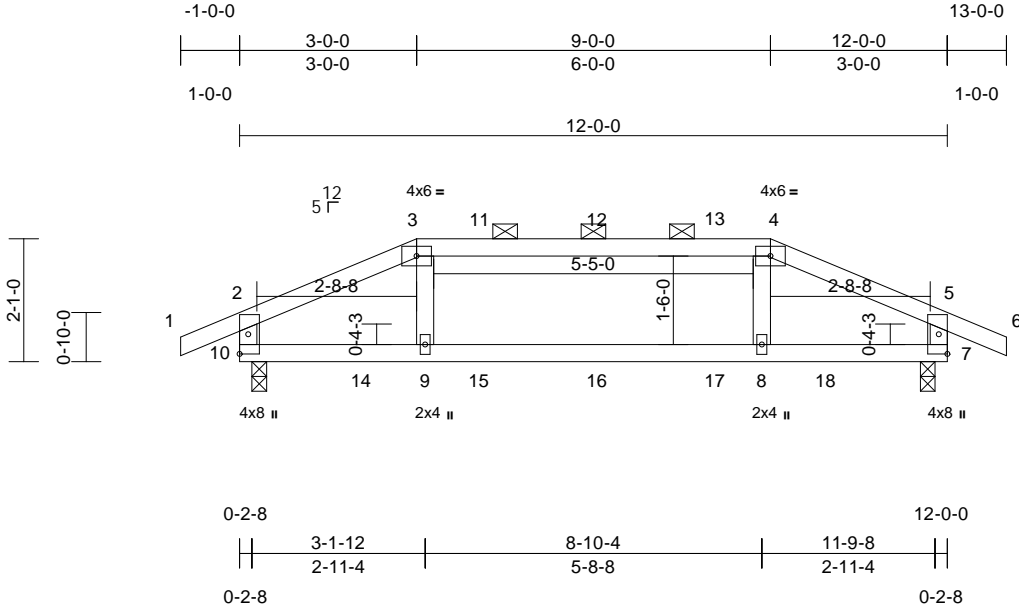


Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	CV04GR	Hip Girder	1	1	I77761865
Job Reference (optional)					

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

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Page: 1



Scale = 1:39.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.07	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.16	8-9	>879	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.05	8-9	>999	240	Weight: 46 lb	FT = 20%

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-4 max.): 3-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7=0-3-0, 10=0-3-0

Max Horiz 10=14 (LC 6)

Max Uplift 7=52 (LC 9), 10=53 (LC 8)

Max Grav 7=571 (LC 1), 10=570 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/26, 2-3=-742/55, 3-4=-634/54, 4-5=-742/55, 5-6=0/26, 2-10=-486/53, 5-7=-486/52

BOT CHORD 9-10=-26/629, 8-9=-19/634, 7-8=-26/629

WEBS 3-9=0/180, 4-8=0/180

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 10 and 52 lb uplift at joint 7.

- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

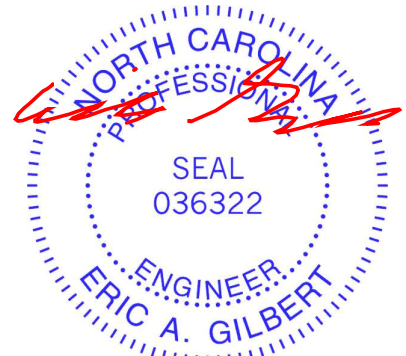
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 25 lb down and 29 lb up at 4-0-12, and 25 lb down and 26 lb up at 6-0-12, and 25 lb down and 29 lb up at 8-0-12 on top chord, and 14 lb down at 2-0-12, 13 lb down at 4-0-12, 13 lb down at 6-0-12, and 13 lb down at 8-0-12, and 14 lb down at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-5=-60, 5-6=-60, 7-10=-20  
Concentrated Loads (lb)

Vert: 11=-10 (F), 12=-10 (F), 13=-10 (F), 14=-7 (F), 15=-8 (F), 16=-8 (F), 17=-8 (F), 18=-7 (F)



November 13, 2025

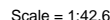
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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818 Soundside Road  
Edenton, NC 27932

Builders FirstSource (Apex, NC), Apex, NC - 27523, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:29 Page: 1  
ID:EqW VipeC2P9lYq2aI9z9KUu-RfC?PsB70Hq3NSqPanL8w3uITXBGKWrCDoi7J4zJC?f



<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 (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.04	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.08	7-8	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.02	9-10	>999	240	Weight: 48 lb	FT = 20%

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust)  
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 1-0-0 to 2-0-0, Interior (1) 2-0-0 to 5-0-0, Exterior (2) 5-0-0 to 11-2-15, Interior (1) 11-2-15 to 13-0-0 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 10 and 34 lb uplift at joint 7.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



November 13.2025



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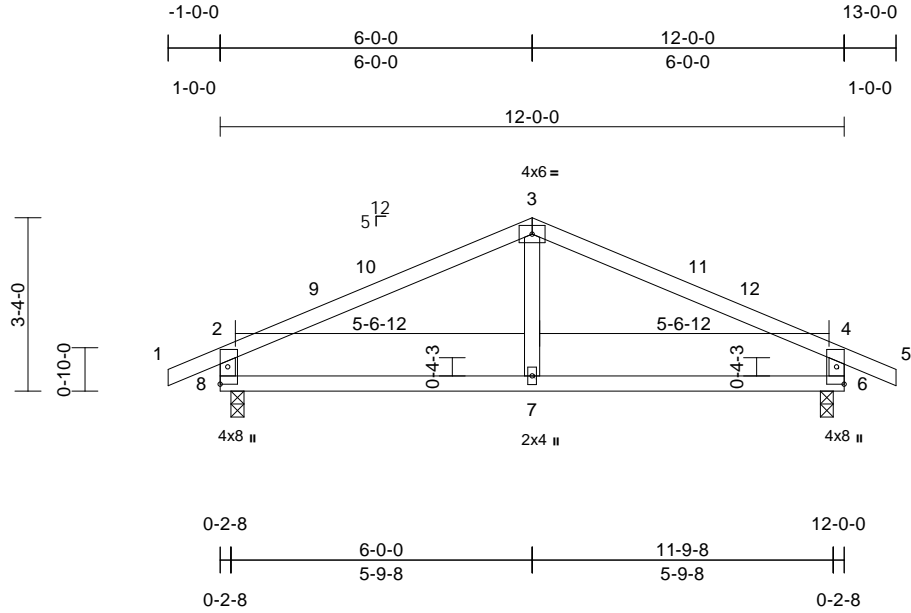
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	CV06	Common	1	1	I77761867
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:29  
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Page: 1



Scale = 1:44.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.03	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.07	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR		Wind(LL)	0.01	7-8	>999	240	Weight: 46 lb	FT = 20%

#### LUMBER

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

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 8 and 33 lb uplift at joint 6.

**LOAD CASE(S)** Standard

#### BRACING

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

#### REACTIONS

(size) 6=0-3-0, 8=0-3-0  
Max Horiz 8=24 (LC 16)  
Max Uplift 6=-33 (LC 13), 8=-33 (LC 12)  
Max Grav 6=537 (LC 1), 8=537 (LC 1)

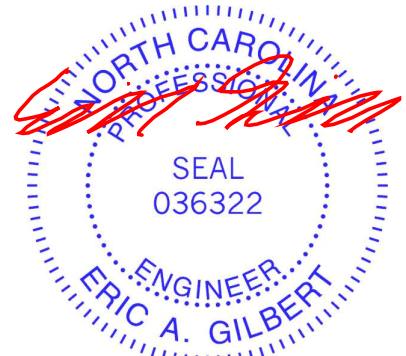
#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/26, 2-3=-590/69, 3-4=-590/69,  
4-5=0/26, 2-8=-471/129, 4-6=-471/129  
BOT CHORD 7-8=0/472, 6-7=0/472  
WEBS 3-7=0/235

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust)  
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1'-0" to 2'-0", Interior (1) 2'-0" to 6'-0", Exterior (2) 6'-0" to 9'-0", Interior (1) 9'-0" to 13'-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
- 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'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.



November 13, 2025

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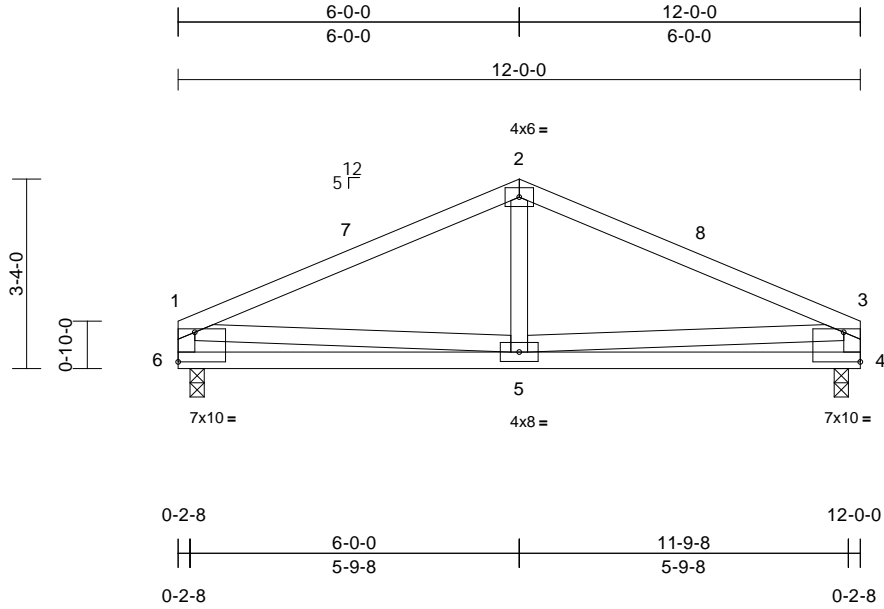
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	CV07	Common	1	1	I77761868
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:29  
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Page: 1



Scale = 1:40.5

Plate Offsets (X, Y): [4:Edge,0-6-4], [6:Edge,0-6-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.03	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.00	5	>999	240	Weight: 59 lb	FT = 20%

#### LUMBER

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

#### BRACING

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

**REACTIONS** (size) 4=0-3-0, 6=0-3-0  
Max Horiz 6=-17 (LC 13)  
Max Uplift 4=-16 (LC 13), 6=-16 (LC 12)  
Max Grav 4=468 (LC 1), 6=468 (LC 1)

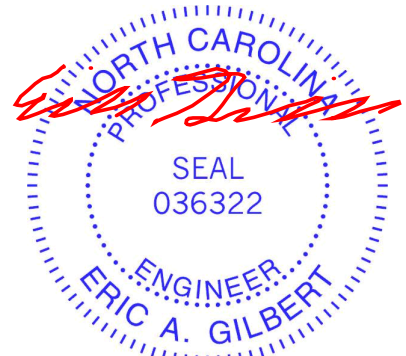
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-620/75, 2-3=-620/72, 1-6=-415/87, 3-4=-415/85  
BOT CHORD 5-6=-63/241, 4-5=-51/241  
WEBS 2-5=0/214, 1-5=0/284, 3-5=0/284

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 6-0-0, Exterior (2) 6-0-0 to 9-0-0, Interior (1) 9-0-0 to 11-10-4 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'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 6 and 16 lb uplift at joint 4.

**LOAD CASE(S)** Standard



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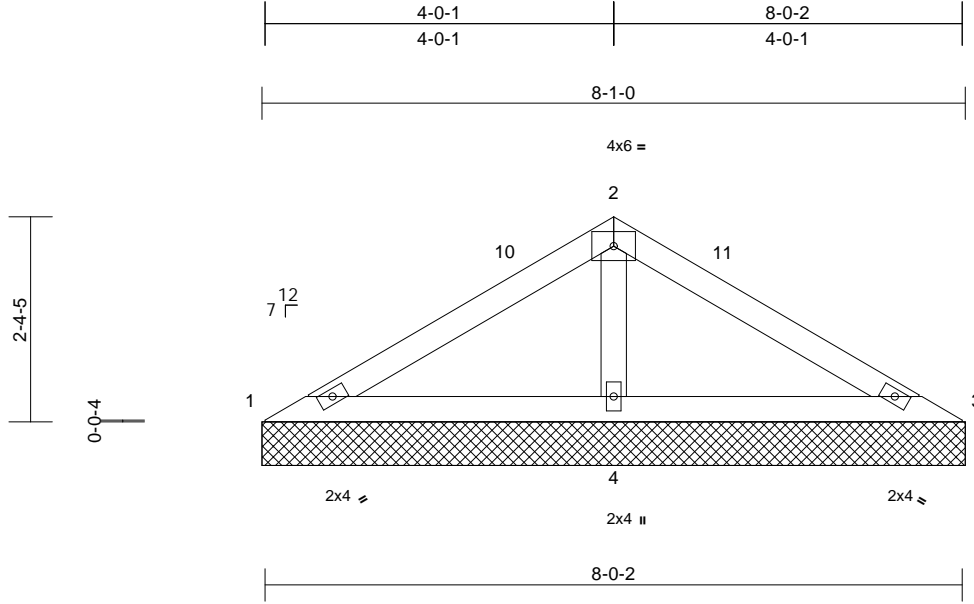
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	V01	Valley	1	1	I77761869
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:29  
ID:MvbxO3iJ?PtlaxTddrejYGz9GnP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 27 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 8-0-2 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

#### REACTIONS

(size)	1=8-1-0, 3=8-1-0, 4=8-1-0
Max Horiz	1=-43 (LC 8)
Max Uplift	3=-82 (LC 23), 4=-21 (LC 12)
Max Grav	1=1 (LC 23), 3=81 (LC 24), 4=647 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

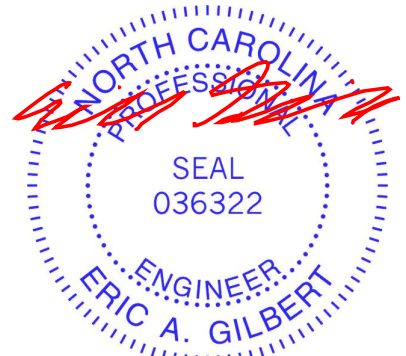
TOP CHORD	1-2=-68/380, 2-3=-86/364
BOT CHORD	1-4=-298/67, 3-4=-286/71
WEBS	2-4=-516/82

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-0-8, Exterior (2) 4-0-8 to 7-0-1, Interior (1) 7-0-1 to 8-1-0 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 3 and 21 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3, 7.

LOAD CASE(S) Standard



November 13, 2025

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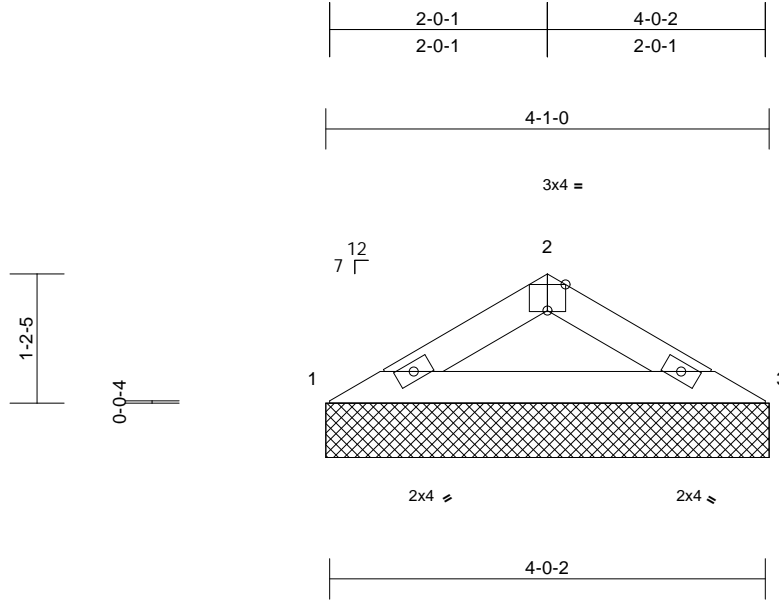


Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	V02	Valley	1	1	I77761870
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:30  
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Page: 1

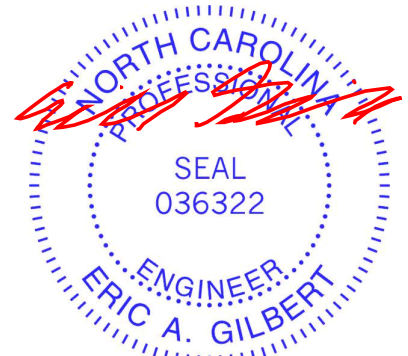


Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 11 lb FT = 20%

<b>LUMBER</b>	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
<b>BRACING</b>	
TOP CHORD	Structural wood sheathing directly applied or 4-0-2 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
<b>REACTIONS</b>	
(size)	1=4-1-0, 3=4-1-0
Max Horiz	1=-20 (LC 10)
Max Uplift	1=-5 (LC 12), 3=-5 (LC 13)
Max Grav	1=163 (LC 1), 3=163 (LC 1)
<b>FORCES</b>	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-267/34, 2-3=-267/34
BOT CHORD	1-3=-22/226

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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
  - 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.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1 and 5 lb uplift at joint 3.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- LOAD CASE(S)** Standard



November 13, 2025

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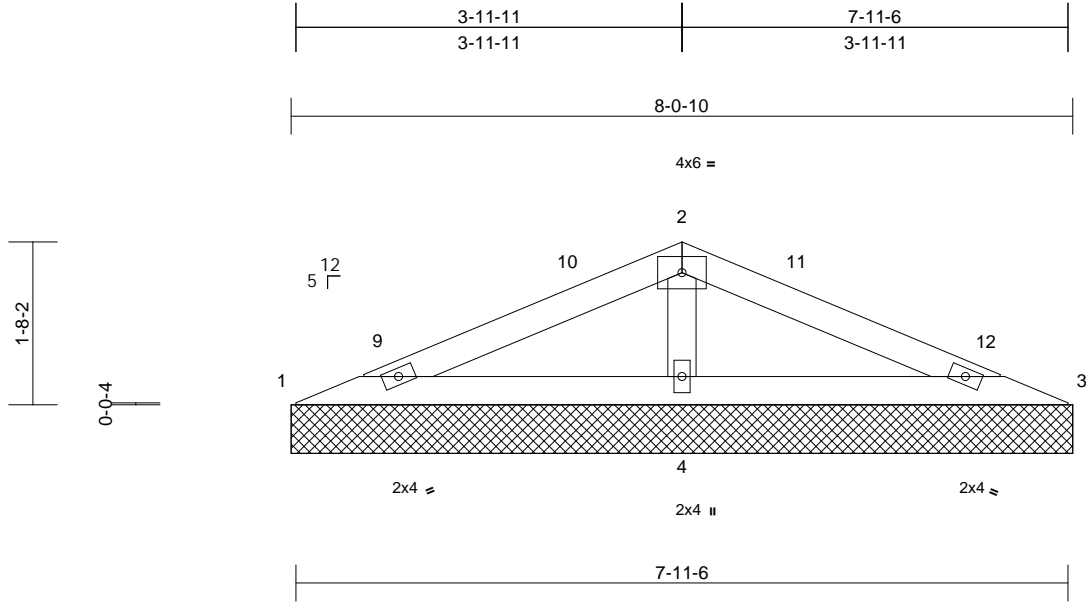
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	V03	Valley	1	1	I77761871
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:30  
ID:y4ecmel4G6cr\_0Dbcgq1T?z9KLs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



<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 (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 24 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 7-11-6 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

#### REACTIONS

(size) 1=8-0-10, 3=8-0-10, 4=8-0-10  
Max Horiz 1=-20 (LC 13)  
Max Uplift 1=-9 (LC 12), 3=-13 (LC 13), 4=-5 (LC 12)  
Max Grav 1=92 (LC 23), 3=92 (LC 24), 4=507 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

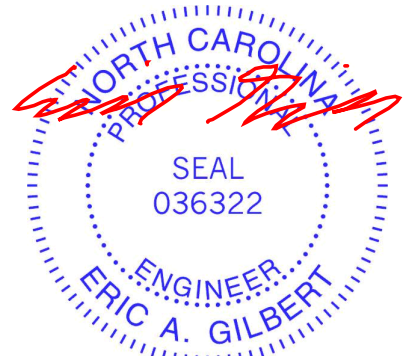
TOP CHORD 1-2=-119/248, 2-3=-119/248  
BOT CHORD 1-4=-194/105, 3-4=-194/105  
WEBS 2-4=-358/99

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-0-5, Exterior (2) 4-0-5 to 7-0-5, Interior (1) 7-0-5 to 8-0-10 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1, 13 lb uplift at joint 3 and 5 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.

**LOAD CASE(S)** Standard



November 13, 2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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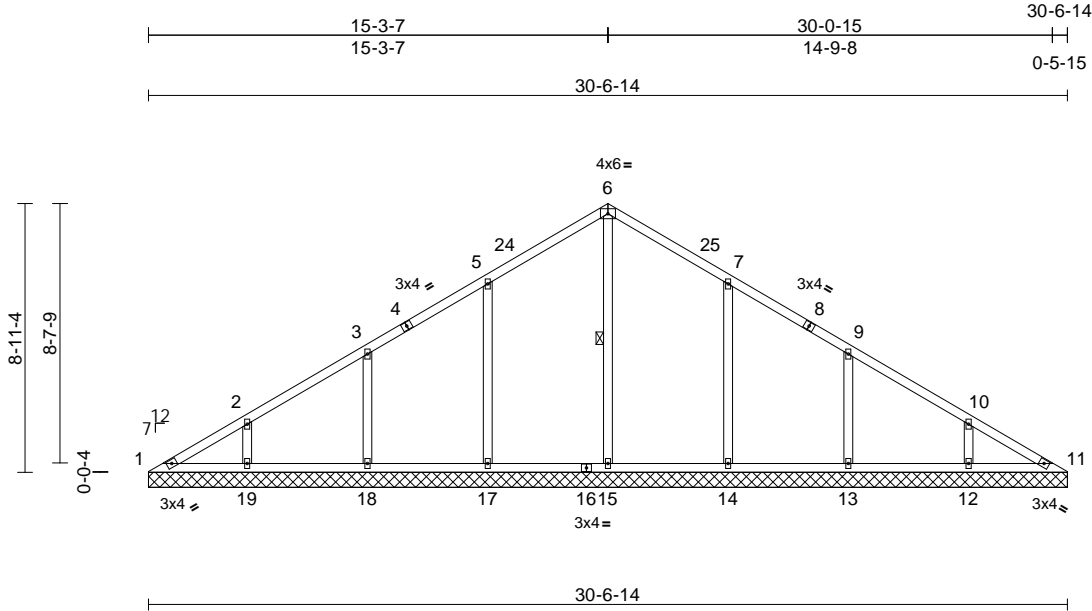
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	V04	Valley	1	1	I77761872
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:30  
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							
Weight: 142 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 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-15

#### REACTIONS

(size)	1=30-6-14, 11=30-6-14, 12=30-6-14, 13=30-6-14, 14=30-6-14, 15=30-6-14, 17=30-6-14, 18=30-6-14, 19=30-6-14
Max Horiz	1=173 (LC 9)
Max Uplift	1=-21 (LC 8), 12=-56 (LC 13), 13=-70 (LC 13), 14=-77 (LC 13), 17=-77 (LC 12), 18=-70 (LC 12), 19=-58 (LC 12)
Max Grav	1=125 (LC 20), 11=100 (LC 1), 12=325 (LC 24), 13=382 (LC 20), 14=470 (LC 20), 15=413 (LC 22), 17=471 (LC 19), 18=381 (LC 19), 19=325 (LC 23)

#### FORCES

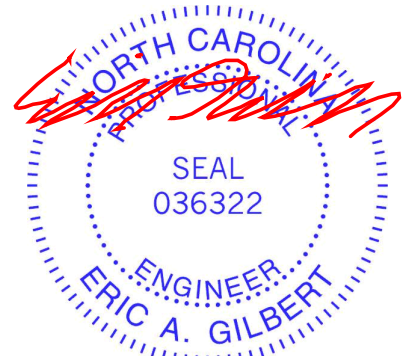
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-190/153, 2-3=-125/128, 3-5=-108/125, 5-6=-146/171, 6-7=-146/157, 7-9=-75/83, 9-10=-73/76, 10-11=-141/92
BOT CHORD	1-19=-79/158, 18-19=-79/112, 17-18=-79/112, 15-17=-79/112, 14-15=-79/112, 13-14=-79/112, 12-13=-79/112, 11-12=-79/121
WEBS	6-15=-218/0, 5-17=-262/125, 3-18=-243/119, 2-19=-234/100, 7-14=-261/124, 9-13=-243/119, 10-12=-233/99

#### NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-7 to 3-3-14, Interior (1) 3-3-14 to 15-3-14, Exterior (2) 15-3-14 to 18-4-9, Interior (1) 18-4-9 to 30-7-5 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.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 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 21 lb uplift at joint 1, 77 lb uplift at joint 17, 70 lb uplift at joint 18, 58 lb uplift at joint 19, 77 lb uplift at joint 14, 70 lb uplift at joint 13 and 56 lb uplift at joint 12.

LOAD CASE(S) Standard



November 13, 2025

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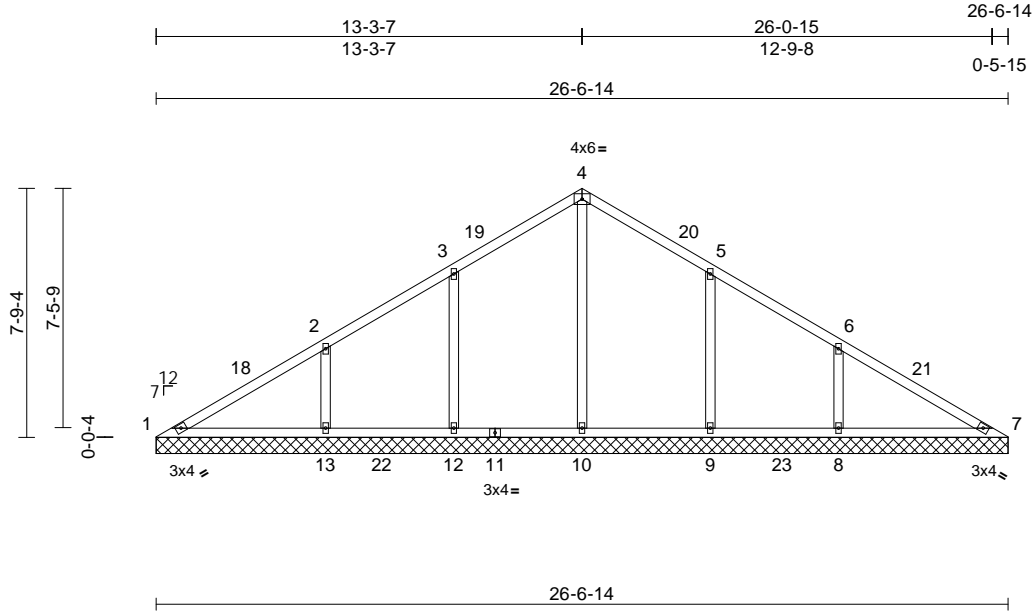
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	V05	Valley	1	1	I77761873
Job Reference (optional)					

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

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	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	0.26	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 116 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 10-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

#### REACTIONS

(size)	1=26-6-14, 7=26-6-14, 8=26-6-14, 9=26-6-14, 10=26-6-14, 12=26-6-14, 13=26-6-14
Max Horiz	1=150 (LC 8)
Max Uplift	1=-1 (LC 8), 8=-84 (LC 13), 9=-73 (LC 13), 12=-73 (LC 12), 13=-85 (LC 12)
Max Grav	1=126 (LC 23), 7=126 (LC 24), 8=444 (LC 20), 9=421 (LC 20), 10=541 (LC 19), 12=421 (LC 19), 13=445 (LC 19)

#### FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-169/265, 2-3=-44/218, 3-4=-5/214, 4-5=-5/203, 5-6=0/192, 6-7=-168/218
BOT CHORD	1-13=-172/169, 12-13=-172/103, 10-12=-172/103, 9-10=-172/103, 8-9=-172/103, 7-8=-172/142
WEBS	4-10=-361/0, 3-12=-246/123, 2-13=-294/126, 5-9=-246/123, 6-8=-294/126

#### NOTES

- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 13-3-14, Exterior (2) 13-3-14 to 16-3-14, Interior (1) 16-3-14 to 26-7-5 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.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 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 1 lb uplift at joint 1, 73 lb uplift at joint 12, 85 lb uplift at joint 13, 73 lb uplift at joint 9 and 84 lb uplift at joint 8.

LOAD CASE(S) Standard



November 13, 2025

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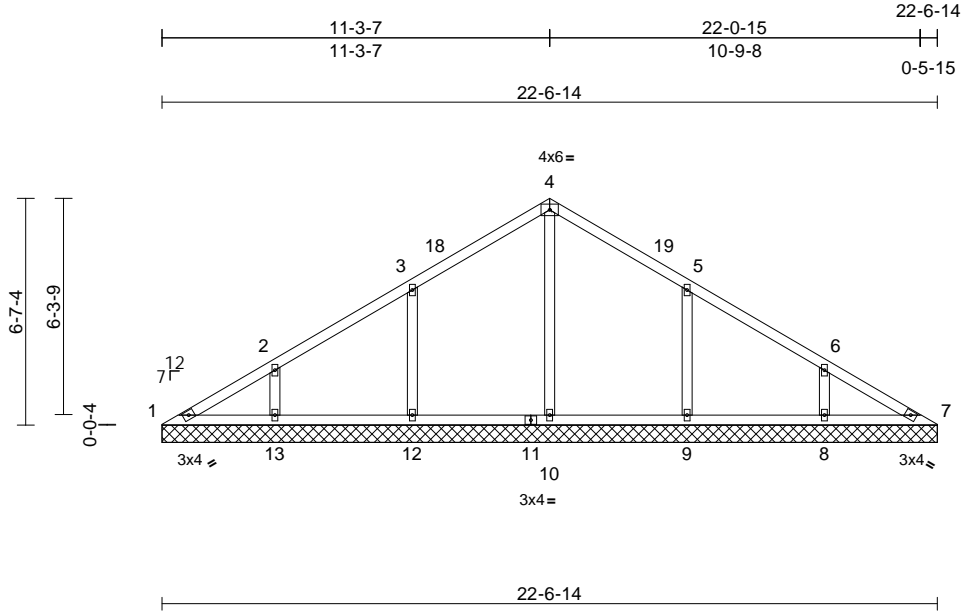
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	V06	Valley	1	1	I77761874
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:30  
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	7	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS						Weight: 95 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 6-0-0 oc bracing.

#### REACTIONS

(size) 1=22-6-14, 7=22-6-14, 8=22-6-14,  
9=22-6-14, 10=22-6-14,  
12=22-6-14, 13=22-6-14  
Max Horiz 1=127 (LC 9)  
Max Uplift 1=-7 (LC 8), 8=-57 (LC 13), 9=-80 (LC 13), 12=-80 (LC 12), 13=-59 (LC 12)  
Max Grav 1=109 (LC 20), 7=97 (LC 24), 8=318 (LC 1), 9=402 (LC 20), 10=426 (LC 19), 12=402 (LC 19), 13=318 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

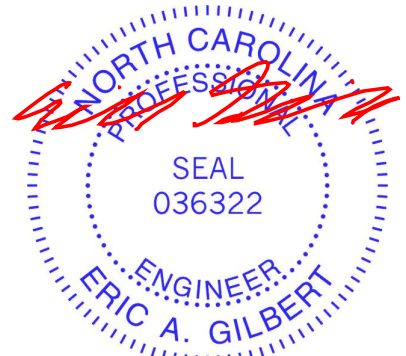
TOP CHORD 1-2=-160/126, 2-3=-88/113, 3-4=-98/125, 4-5=-98/111, 5-6=-50/78, 6-7=-126/87  
BOT CHORD 1-13=-65/140, 12-13=-65/80, 10-12=-65/80, 9-10=-65/80, 8-9=-65/80, 7-8=-65/104  
WEBS 4-10=-224/0, 3-12=-266/130, 2-13=-226/98, 5-9=-266/130, 6-8=-226/98

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-7 to 3-3-14, Interior (1) 3-3-14 to 11-3-14, Exterior (2) 11-3-14 to 14-3-14, Interior (1) 14-3-14 to 22-7-5 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 (II) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 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 7 lb uplift at joint 1, 80 lb uplift at joint 12, 59 lb uplift at joint 13, 80 lb uplift at joint 9 and 57 lb uplift at joint 8.

LOAD CASE(S) Standard



November 13, 2025

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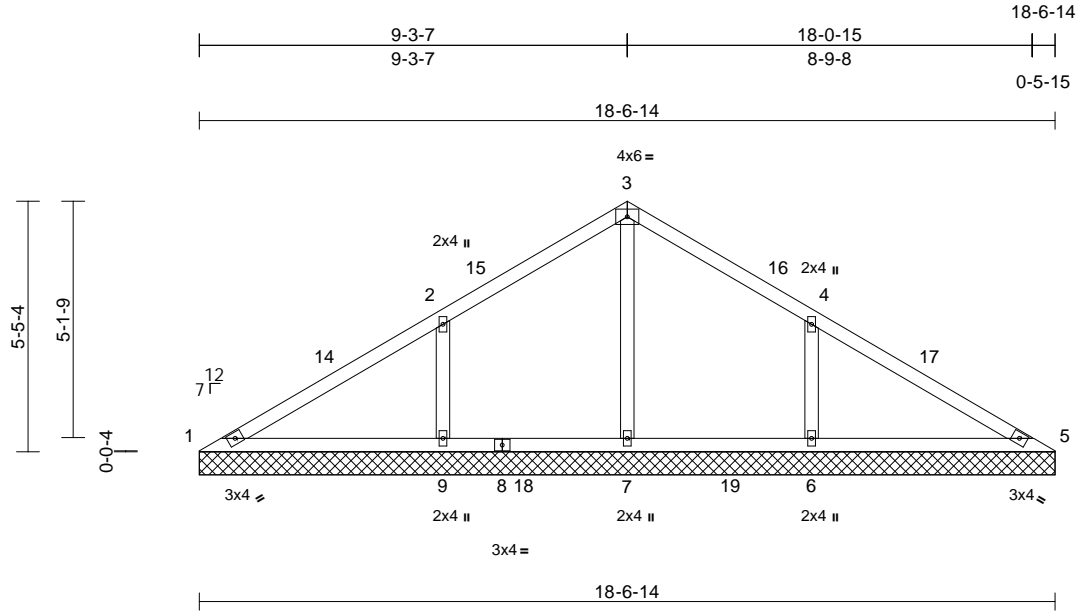


Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	V07	Valley	1	1	I77761875
Job Reference (optional)					

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

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.00	9	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 73 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 10-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS	(size)	1=18-6-14, 5=18-6-14, 6=18-6-14, 7=18-6-14, 9=18-6-14
	Max Horiz	1=104 (LC 8)
	Max Uplift	6=-95 (LC 13), 9=-96 (LC 12)
	Max Grav	1=104 (LC 23), 5=104 (LC 24), 6=464 (LC 20), 7=504 (LC 19), 9=465 (LC 19)

#### FORCES

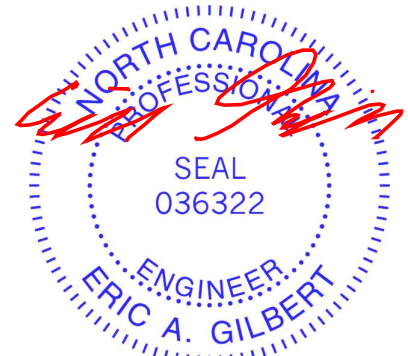
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-126/288, 2-3=0/242, 3-4=0/242, 4-5=-126/276
BOT CHORD	1-9=-194/116, 7-9=-194/76, 6-7=-194/76, 5-6=-194/105
WEBS	3-7=-384/0, 2-9=-315/138, 4-6=-314/138

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 9-3-14, Exterior (2) 9-3-14 to 12-3-14, Interior (1) 12-3-14 to 18-7-5 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.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 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 96 lb uplift at joint 9 and 95 lb uplift at joint 6.

LOAD CASE(S) Standard



November 13, 2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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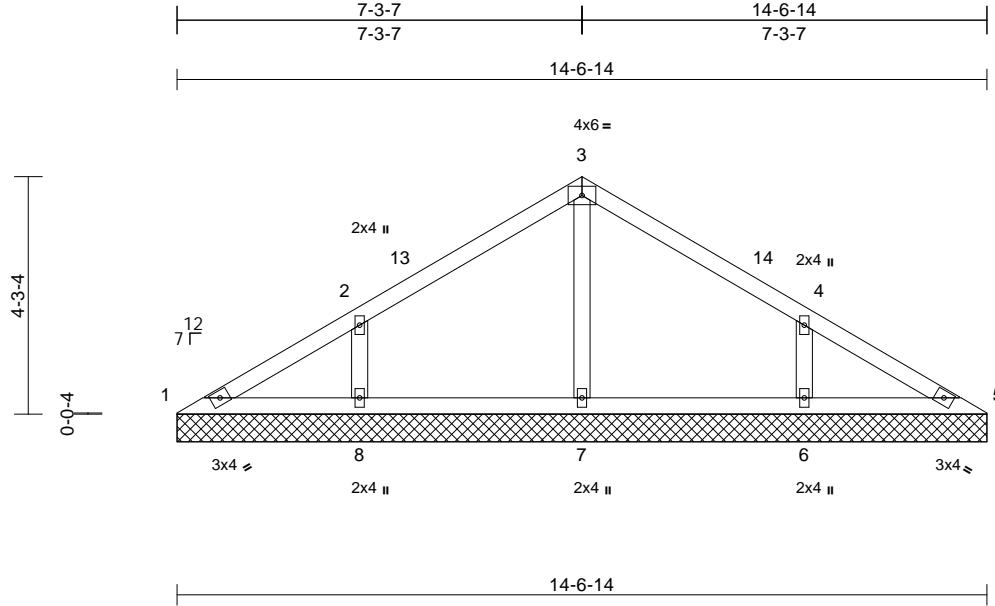
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	V08	Valley	1	1	I77761876
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:31  
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Page: 1



Scale = 1:41.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	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	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 55 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 6-0-0 oc bracing.

**REACTIONS** (size) 1=14-6-14, 5=14-6-14, 6=14-6-14, 7=14-6-14, 8=14-6-14  
Max Horiz 1=-81 (LC 8)  
Max Uplift 1=-4 (LC 13), 6=-73 (LC 13), 8=-75 (LC 12)  
Max Grav 1=89 (LC 20), 5=88 (LC 1), 6=342 (LC 24), 7=317 (LC 1), 8=343 (LC 19)

**FORCES** (lb) - Maximum Compression/Maximum Tension

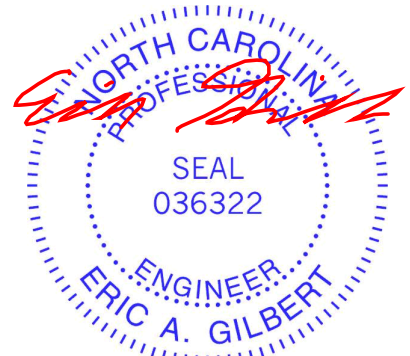
TOP CHORD 1-2=-123/111, 2-3=-58/99, 3-4=-50/88, 4-5=-110/86  
BOT CHORD 1-8=-52/111, 7-8=-52/47, 6-7=-52/47, 5-6=-52/89  
WEBS 3-7=-241/8, 2-8=-253/115, 4-6=-253/114

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-7 to 3-3-14, Interior (1) 3-3-14 to 7-3-14, Exterior (2) 7-3-14 to 10-3-14, Interior (1) 10-3-14 to 14-7-5 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.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1, 75 lb uplift at joint 8 and 73 lb uplift at joint 6.

**LOAD CASE(S)** Standard



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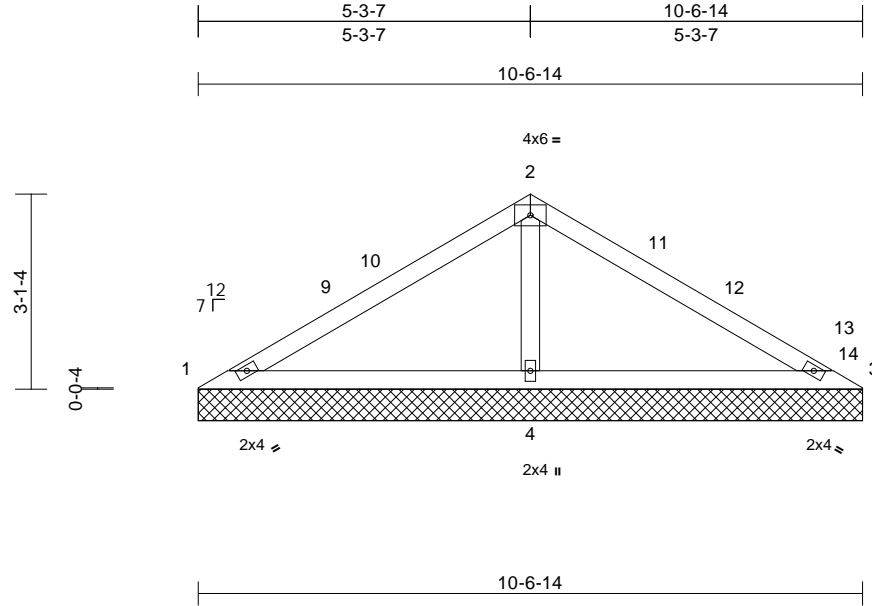
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	V09	Valley	1	1	I77761877
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:31  
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Scale = 1:36.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 36 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 10-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS	(size)	1=10-6-14, 3=10-6-14, 4=10-6-14
	Max Horiz	1=57 (LC 9)
	Max Uplift	1=28 (LC 24), 3=39 (LC 23), 4=29 (LC 12)
	Max Grav	1=76 (LC 23), 3=49 (LC 24), 4=780 (LC 1)

#### FORCES

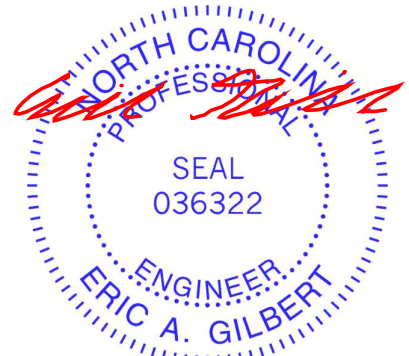
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-65/387, 2-3=-51/386
BOT CHORD	1-4=-272/75, 3-4=-272/75
WEBS	2-4=-600/110

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 5-3-14, Exterior (2) 5-3-14 to 8-3-14, Interior (1) 8-3-14 to 10-1-4 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 1, 39 lb uplift at joint 3 and 29 lb uplift at joint 4.

LOAD CASE(S) Standard



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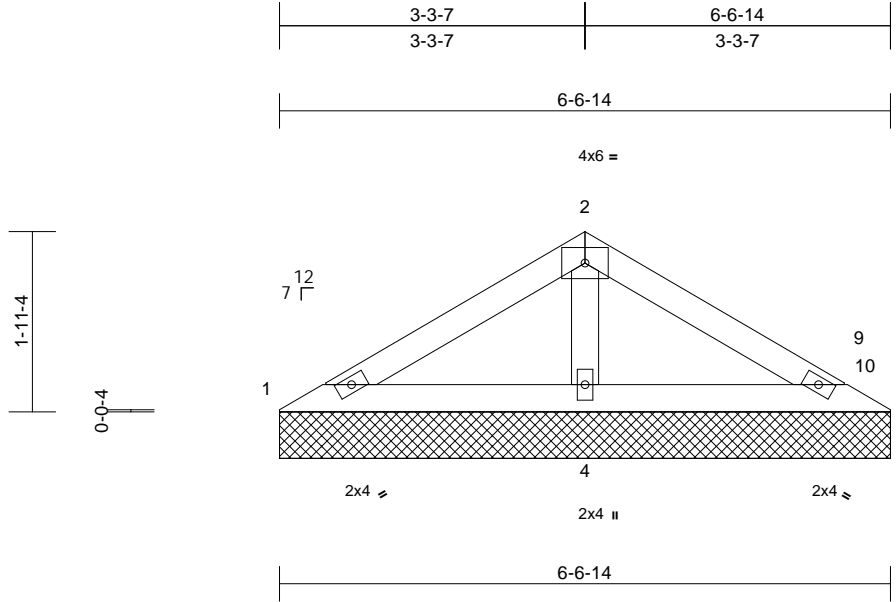
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	V10	Valley	1	1	I77761878
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:31  
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Page: 1



Scale = 1:24.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 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 6-6-14 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

#### REACTIONS

(size)	1=6-6-14, 3=6-6-14, 4=6-6-14
Max Horiz	1=34 (LC 9)
Max Uplift	1=-2 (LC 12), 3=-2 (LC 23), 4=-12 (LC 12)
Max Grav	1=73 (LC 23), 3=46 (LC 24), 4=414 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

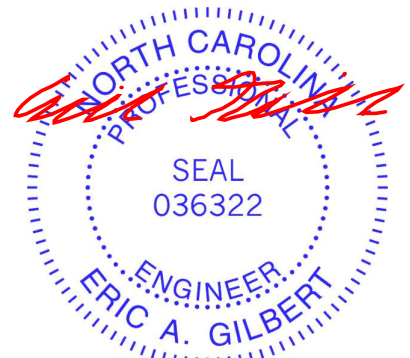
TOP CHORD	1-2=-75/170, 2-3=-56/169
BOT CHORD	1-4=-126/60, 3-4=-126/49
WEBS	2-4=-277/59

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1, 2 lb uplift at joint 3 and 12 lb uplift at joint 4.

LOAD CASE(S) Standard



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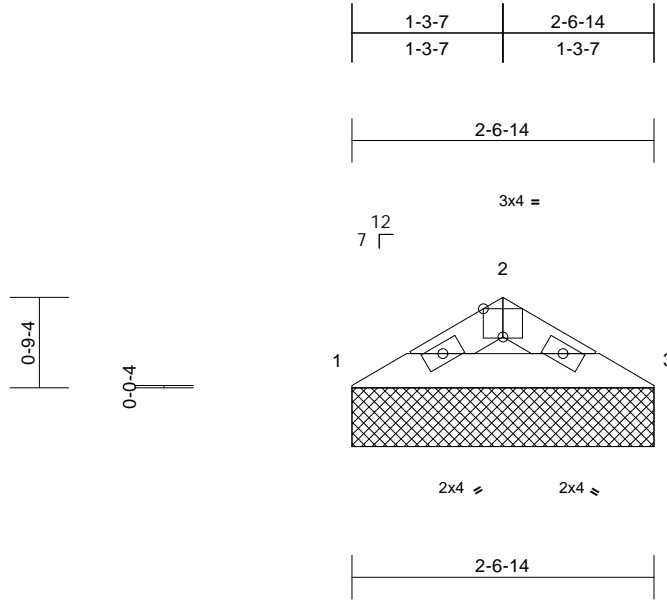
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MATTAMYHOMES/APPALACHIAN; LOT 6 BLOOM
4941378	V11	Valley	1	1	I77761879
Job Reference (optional)					

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Nov 12 11:47:31  
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Page: 1



Scale = 1:19.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 7 lb FT = 20%

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 2-6-14 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 1=2-6-14, 3=2-6-14  
Max Horiz 1=-12 (LC 10)  
Max Uplift 1=-4 (LC 12), 3=-4 (LC 13)  
Max Grav 1=103 (LC 1), 3=103 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

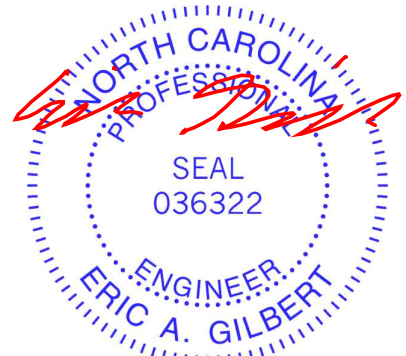
TOP CHORD 1-2=-148/20, 2-3=-148/20  
BOT CHORD 1-3=-9/123

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1 and 4 lb uplift at joint 3.

**LOAD CASE(S)** Standard



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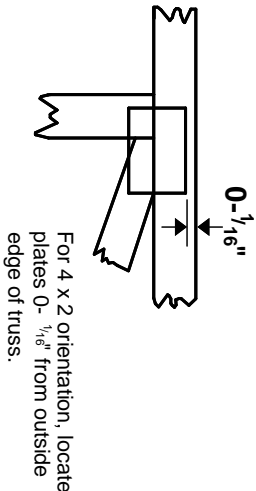
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Edenton, NC 27932



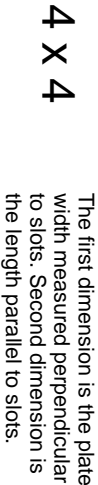
# Symbols

## PLATE LOCATION AND ORIENTATION

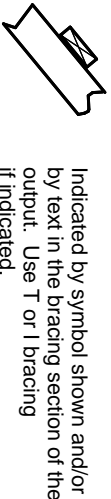


\* Plate location details available in MITek software or upon request.

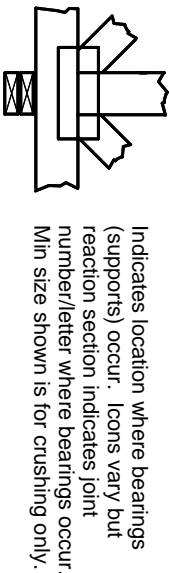
## PLATE SIZE



## LATERAL BRACING LOCATION

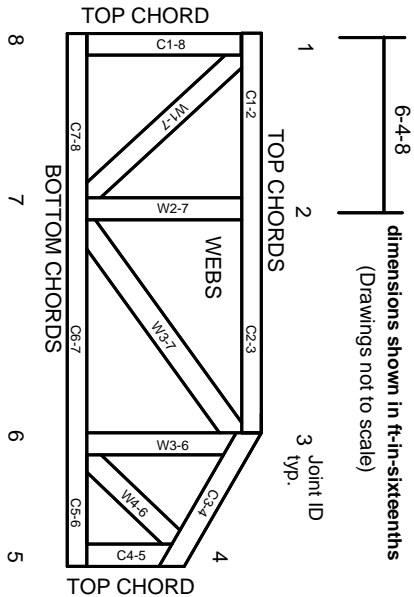


## BEARING



**Industry Standards:**  
ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-22: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



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-1988, ESR-2362, ESR-2685, ESR-3282  
ESR-4722, ESL-1388

# Design General Notes

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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# 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/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.

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