

RE: FNC109-R  
Chesapeake-6260D:Lot109 FarmNeilsCreek

Trenco  
818 Soundside Rd  
Edenton, NC 27932

**Site Information:**

Customer: Project Name: FNC109-R  
Lot/Block: Model:  
Address: Subdivision:  
City: State:

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.6  
Wind Code: ASCE 7-10 Wind Speed: 120 mph  
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 33 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I70341507	A02	12/20/2024	21	I70341527	P06	12/20/2024
2	I70341508	A02H	12/20/2024	22	I70341528	P07G	12/20/2024
3	I70341509	A02HT	12/20/2024	23	I70341529	V01	12/20/2024
4	I70341510	A03HT	12/20/2024	24	I70341530	V02	12/20/2024
5	I70341511	A04	12/20/2024	25	I70341531	V03	12/20/2024
6	I70341512	A04HT	12/20/2024	26	I70341532	V04	12/20/2024
7	I70341513	A07G	12/20/2024	27	I70341533	V05	12/20/2024
8	I70341514	B02	12/20/2024	28	I70341534	V06	12/20/2024
9	I70341515	B03GR	12/20/2024	29	I70341535	V07	12/20/2024
10	I70341516	B04G	12/20/2024	30	I70341536	V09	12/20/2024
11	I70341517	C02GR	12/20/2024	31	I70341537	V10	12/20/2024
12	I70341518	C03G	12/20/2024	32	I70341538	V11	12/20/2024
13	I70341519	CP01G	12/20/2024	33	I70341539	V12	12/20/2024
14	I70341520	CP02	12/20/2024				
15	I70341521	CP03	12/20/2024				
16	I70341522	M01G	12/20/2024				
17	I70341523	M02	12/20/2024				
18	I70341524	M03	12/20/2024				
19	I70341525	P04G	12/20/2024				
20	I70341526	P05	12/20/2024				

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.

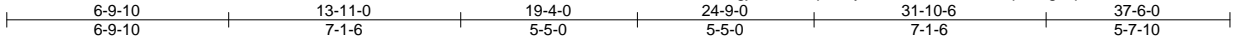
North Carolina COA: C-0844

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.



Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	A02	ROOF TRUSS	12	1	170341507
Builders FirstSource (Apex, NC), Apex, NC - 27523,					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:50:57 2024 Page 1  
ID:hazSNSvRlgiAW5liYcPhTxvydPZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:70.6

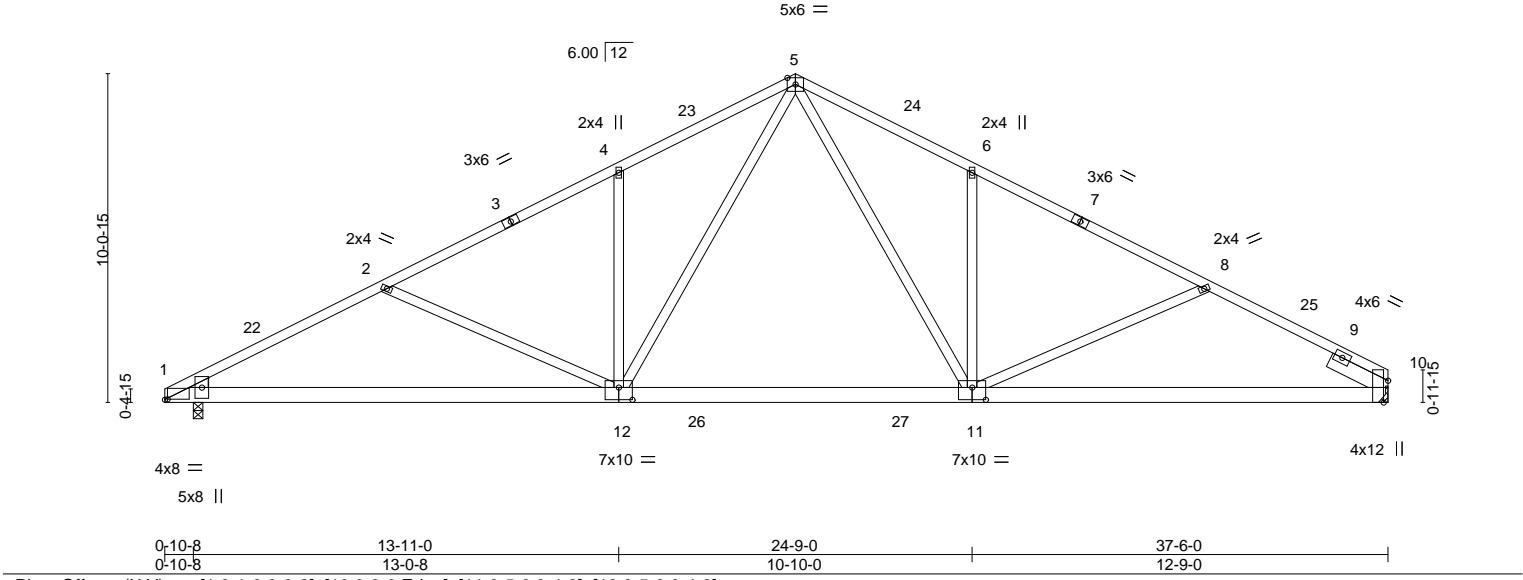


Plate Offsets (X,Y)--		[1:0-1-0,0-0-2], [10:0-8-0,Edge], [11:0-5-0,0-4-8], [12:0-5-0,0-4-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 1.00
TCDL 10.0	Lumber DOL	1.15	BC 0.88
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.35 11-12	>999	360
Vert(CT)	-0.52 11-12	>859	240
Horz(CT)	0.09 10	n/a	n/a
Wind(LL)	0.15 11-12	>999	240
PLATES	GRIP		
MT20	244/190		
Weight: 230 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3	
SLIDER Right 2x6 SP No.2 1-11-12	

REACTIONS.	(size) 10=Mechanical, 1=0-3-8
	Max Horz 1=151(LC 12)
	Max Uplift 10=89(LC 13), 1=99(LC 12)
	Max Grav 10=1464(LC 1), 1=1536(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-2504/223, 2-4=-2120/153, 4-5=-2118/258, 5-6=-2100/259, 6-8=-2097/159, 8-10=-2396/213
BOT CHORD	1-12=-269/2165, 11-12=0/1371, 10-11=-124/2076
WEBS	5-11=-175/895, 6-11=-443/217, 8-11=-338/190, 5-12=-172/924, 4-12=-432/216, 2-12=-404/205

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 19-4-0, Exterior(2) 19-4-0 to 22-4-0, Interior(1) 22-4-0 to 37-6-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 10 and 99 lb uplift at joint 1.

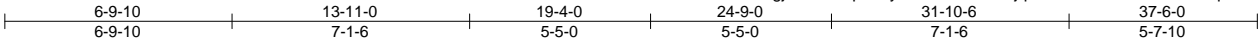


December 20,2024

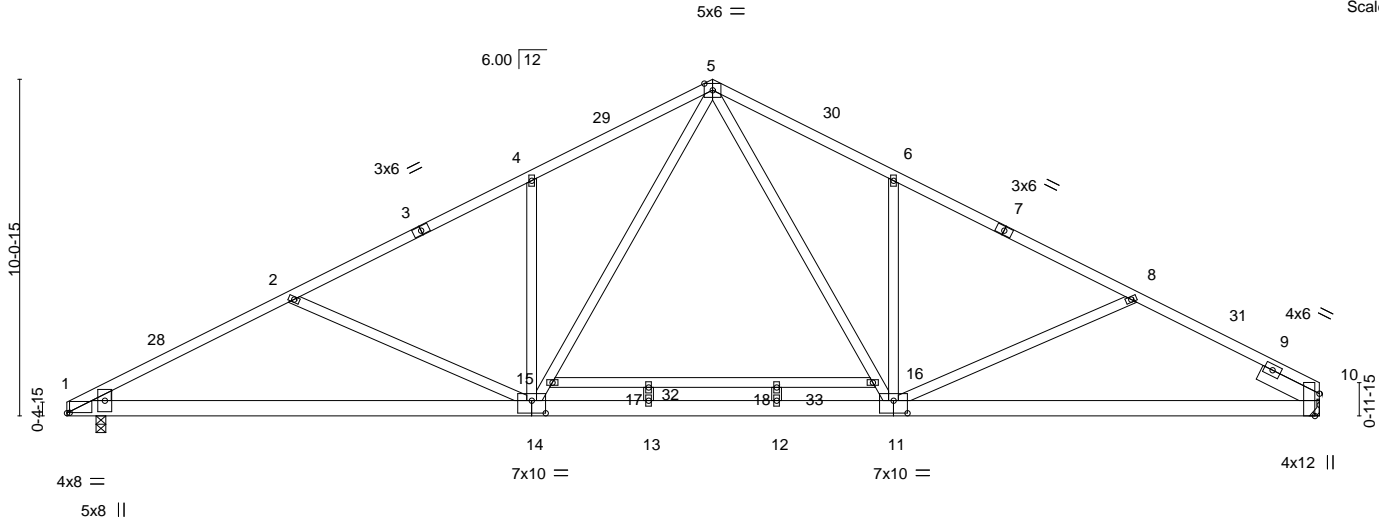
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek	I70341508
FNC109-R	A02H	ROOF TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Dec 20 14:16:55 2024 Page 1  
ID:hazSNSvRIgjAW5iiYCphTxyvdPZ-hfSIYZSLjqXv5XWor5fTc3PDFs?aYqHQHsF8Ury72P6



Scale = 1:69.0



0-10-8	13-11-0	17-5-0	21-3-0	24-9-0	37-6-0
0-10-8	13-0-8	3-6-0	3-10-0	3-6-0	12-9-0

Plate Offsets (X,Y)-- [1:0-1-0,0-0-2], [10:0-8-0,Edge], [11:0-5-0,0-4-8], [14:0-5-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.88	Plate(LL)	-0.31	12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.97	Vert(CT)	-0.47	12-13	>961	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.69	Horz(CT)	0.09	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.14	12-13	>999	240		
									Weight: 246 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2 \*Except\*  
7-10: 2x4 SP No.1  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3  
SLIDER Right 2x6 SP No.2 1-11-12

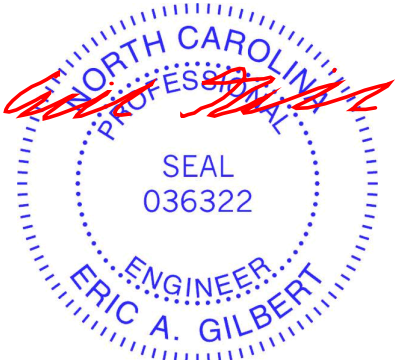
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-7-6 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 10=1464/Mechanical, 1=1536/0-3-8  
Max Horz 1=151(LC 12)  
Max Uplift 10=-89(LC 13), 1=-99(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-28=-2502/197, 2-28=-2374/222, 2-3=-2117/132, 3-4=-2011/153, 4-29=-2115/232,  
5-29=-2026/258, 5-30=-2007/258, 6-30=-2097/232, 6-7=-1989/159, 7-8=-2095/138,  
8-31=-2352/212, 9-31=-2393/191, 9-10=-916/0  
BOT CHORD 1-14=-269/2164, 13-14=0/1341, 12-13=0/1341, 11-12=0/1341, 10-11=-123/2072  
WEBS 5-16=-174/889, 11-16=-173/893, 6-11=-441/216, 8-11=-337/190, 14-15=-170/925,  
5-15=-172/920, 4-14=-432/216, 2-14=-405/206

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 19-4-0, Exterior(2) 19-4-0 to 22-4-0, Interior(1) 22-4-0 to 37-6-0 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
  - All plates are 2x4 MT20 unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 10 and 99 lb uplift at joint 1.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - N/A

**LOAD CASE(S)**



December 20,2024

Continued on page 2

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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)

ENGINEERING BY  
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A MiTek Affiliate  
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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek	I70341508
FNC109-R	A02H	ROOF TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Dec 20 14:16:55 2024 Page 2  
ID:hazSNSvRlgjAW5liYCPhtXyvdPZ-hfSIYZSLJqXv5XWor5fTc3PDFs?aYqHqHsF8Ury72P6

**LOAD CASE(S)**

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-60, 5-10=-60, 19-23=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-50, 5-10=-50, 19-23=-20, 32-33=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-5=-20, 5-10=-20, 19-23=-40, 32-33=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-28=25, 5-28=14, 5-30=25, 10-30=14, 19-23=-12  
Horz: 1-28=-37, 5-28=-26, 5-30=37, 10-30=26
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-29=14, 5-29=25, 5-31=14, 10-31=25, 19-23=-12  
Horz: 1-29=-26, 5-29=-37, 5-31=26, 10-31=37
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-33, 5-10=-33, 19-23=-20  
Horz: 1-5=13, 5-10=-13
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-33, 5-10=-33, 19-23=-20  
Horz: 1-5=13, 5-10=-13
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-2, 5-10=9, 19-23=-12  
Horz: 1-5=-10, 5-10=21
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=9, 5-10=-2, 19-23=-12  
Horz: 1-5=-21, 5-10=10
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-20, 5-10=-9, 19-23=-20  
Horz: 1-5=-0, 5-10=11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-9, 5-10=-20, 19-23=-20  
Horz: 1-5=-11, 5-10=0
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=22, 5-10=7, 19-23=-12  
Horz: 1-5=-34, 5-10=19
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=7, 5-10=22, 19-23=-12  
Horz: 1-5=-19, 5-10=34
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=11, 5-10=3, 19-23=-12  
Horz: 1-5=-23, 5-10=15
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=3, 5-10=11, 19-23=-12  
Horz: 1-5=-15, 5-10=23
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=4, 5-10=-11, 19-23=-20  
Horz: 1-5=-24, 5-10=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-11, 5-10=4, 19-23=-20  
Horz: 1-5=-9, 5-10=24
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
Uniform Loads (plf)  
Vert: 1-5=-20, 5-10=-20, 19-23=-20, 32-33=-40
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-5=-50, 5-10=-42, 19-23=-20, 32-33=-30  
Horz: 1-5=-0, 5-10=8
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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ENGINEERING BY  
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A MiTek Affiliate

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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek	I70341508
FNC109-R	A02H	ROOF TRUSS	1	1	Job Reference (optional)	

- LOAD CASE(S)**
- Uniform Loads (plf)
- Vert: 1-5=-42, 5-10=-50, 19-23=-20, 32-33=-30
- Horz: 1-5=-8, 5-10=0
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-5=-32, 5-10=-43, 19-23=-20, 32-33=-30
- Horz: 1-5=-18, 5-10=7
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-5=-43, 5-10=-32, 19-23=-20, 32-33=-30
- Horz: 1-5=-7, 5-10=18
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-5=-60, 5-10=-20, 19-23=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-5=-20, 5-10=-60, 19-23=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-5=-50, 5-10=-20, 19-23=-20, 32-33=-30
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-5=-20, 5-10=-50, 19-23=-20, 32-33=-30

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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek	170341509
FNC109-R	A02HT	ROOF TRUSS	2	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

ID:hazSNSvRIgjAW5iiYCphTxyvdPZ-smcTsKbE7DwLvDsw\_vM2YNN3yIImdrK2p4PDLjy72Ox  
8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Dec 20 14:17:06 2024 Page 1

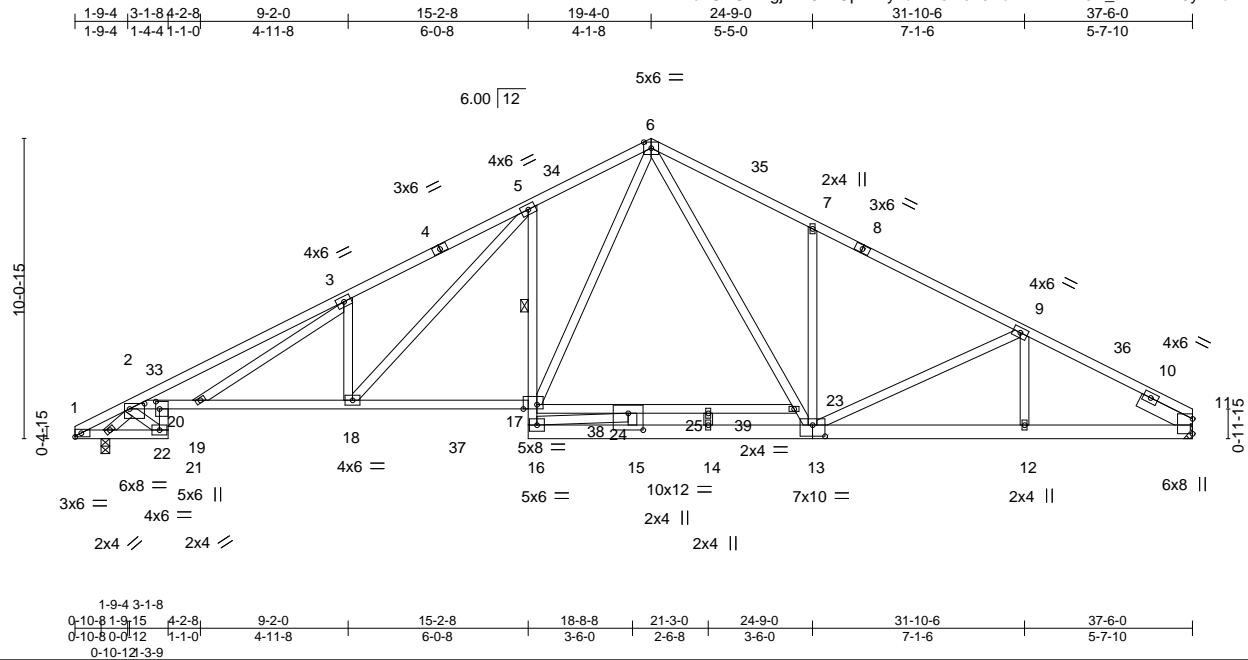


Plate Offsets (X,Y)-- [2:0-6-0,0-2-3], [13:0-5-0,0-4-8], [17:0-5-8,Edge], [20:0-3-0,0-1-8], [24:0-6-0,0-6-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.98	Vert(LL)	-0.21	17-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.43	17-18	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.54	Horz(CT)	0.24	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.16	17-18	>999	240	Weight: 261 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2 \*Except\*  
1-4: 2x4 SP No.1  
BOT CHORD 2x4 SP No.2 \*Except\*  
2-17: 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS  
5-16: 2x4 SP No.3, 13-16: 2x6 SP No.2  
11-13: 2x6 SP 2400F 2.0E or 2x6 SP DSS  
WEBS 2x4 SP No.3 \*Except\*  
17-23: 2x4 SP No.2  
SLIDER Right 2x6 SP No.2 1-11-12

**BRACING-**

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:  
1 Row at midpt 5-17

**REACTIONS.**

(lb/size) 11=1459/Mechanical, 22=1541/0-3-8  
Max Horz 22=151(LC 12)  
Max Uplift 11=89(LC 13), 22=99(LC 12)

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

TOP CHORD 2-33=-3942/347, 3-33=-3859/380, 3-4=-2978/301, 4-5=-2886/331, 5-34=-2112/236,  
6-34=-2063/255, 6-35=-1971/268, 7-35=-2060/242, 7-8=-1888/169, 8-9=-2060/149,  
9-36=-2229/159, 10-36=-2326/144, 10-11=-1059/0  
BOT CHORD 21-22=-247/1298, 20-21=-215/1254, 2-20=-325/3232, 19-20=-383/3452, 18-19=-234/2604,  
18-37=-77/1865, 17-37=-79/1863, 16-17=0/254, 5-17=-731/246, 15-16=0/1341,  
14-15=0/1341, 13-14=0/1341, 12-13=-82/2027, 11-12=-82/2027  
WEBS 3-18=-612/239, 5-18=-218/1085, 6-17=-174/1077, 6-23=-193/780, 13-23=-196/817,  
7-13=-427/208, 9-13=-335/135, 17-38=0/1237, 24-38=0/1234, 16-24=-1179/0,  
2-21=-1598/286, 3-19=-184/1043, 2-22=-1865/170

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 19-4-0, Exterior(2) 19-4-0 to 22-4-0, Interior(1) 22-4-0 to 37-6-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 11 and 99 lb uplift at joint 22.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- N/A



December 20,2024

Continued on page 2

**LOAD CASE(S)**

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.sbcacompoments.com)



818 Soundside Road  
Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek	I70341509
FNC109-R	A02HT	ROOF TRUSS	2	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Dec 20 14:17:06 2024 Page 2  
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-smcTsKbE7DwLvDsw\_vM2YNN3yIImdrK2p4PDLjy72Ox

**LOAD CASE(S)**

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-60, 6-11=-60, 21-26=-20, 17-20=-20, 16-29=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-50, 6-11=-50, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-11=-20, 21-26=-40, 17-20=-40, 16-29=-40, 38-39=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-33=25, 6-33=14, 6-35=25, 11-35=14, 22-26=18, 21-22=-12, 17-20=-12, 16-29=-12  
Horz: 1-33=-37, 6-33=-26, 6-35=37, 11-35=26
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-34=14, 6-34=25, 6-36=14, 11-36=25, 22-26=18, 21-22=-12, 17-20=-12, 16-29=-12  
Horz: 1-34=-26, 6-34=-37, 6-36=26, 11-36=37
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-33, 6-11=-33, 22-26=-15, 21-22=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=13, 6-11=-13
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-33, 6-11=-33, 22-26=-15, 21-22=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=13, 6-11=-13
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-2, 6-11=9, 22-26=4, 21-22=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-10, 6-11=21
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=9, 6-11=-2, 21-26=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-21, 6-11=10
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-11=-9, 22-26=-4, 21-22=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=-0, 6-11=11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-9, 6-11=-20, 21-26=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=-11, 6-11=0
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=22, 6-11=7, 21-26=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-34, 6-11=19
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=7, 6-11=22, 21-26=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-19, 6-11=34
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=11, 6-11=3, 21-26=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-23, 6-11=15
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=3, 6-11=11, 21-26=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-15, 6-11=23
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=4, 6-11=-11, 21-26=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=-24, 6-11=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-11, 6-11=4, 21-26=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=-9, 6-11=24
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-11=-20, 21-26=-20, 20-37=-20, 17-37=-60, 16-29=-20, 38-39=-40
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-50, 6-11=-42, 22-26=-8, 21-22=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30  
Horz: 1-6=-0, 6-11=8
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek	I70341509
FNC109-R	A02HT	ROOF TRUSS	2	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

ID:hazSNSvRIgjAW5iiYCphTxyvdPZ-smcTsKbE7DwLvDsw\_vM2YNN3yIlmdrK2p4PDLjy72Ox

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- LOAD CASE(S)**
- Uniform Loads (plf)
- Vert: 1-6=-42, 6-11=-50, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
- Horz: 1-6=-8, 6-11=0
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-6=-32, 6-11=-43, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
- Horz: 1-6=-18, 6-11=7
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-6=-43, 6-11=-32, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
- Horz: 1-6=-7, 6-11=18
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-6=-60, 6-11=-20, 21-26=-20, 17-20=-20, 16-29=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-6=-20, 6-11=-60, 21-26=-20, 17-20=-20, 16-29=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-6=-50, 6-11=-20, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-6=-20, 6-11=-50, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30

**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



Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek	170341510
FNC109-R	A03HT	ROOF TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Dec 20 14:17:16 2024 Page 1  
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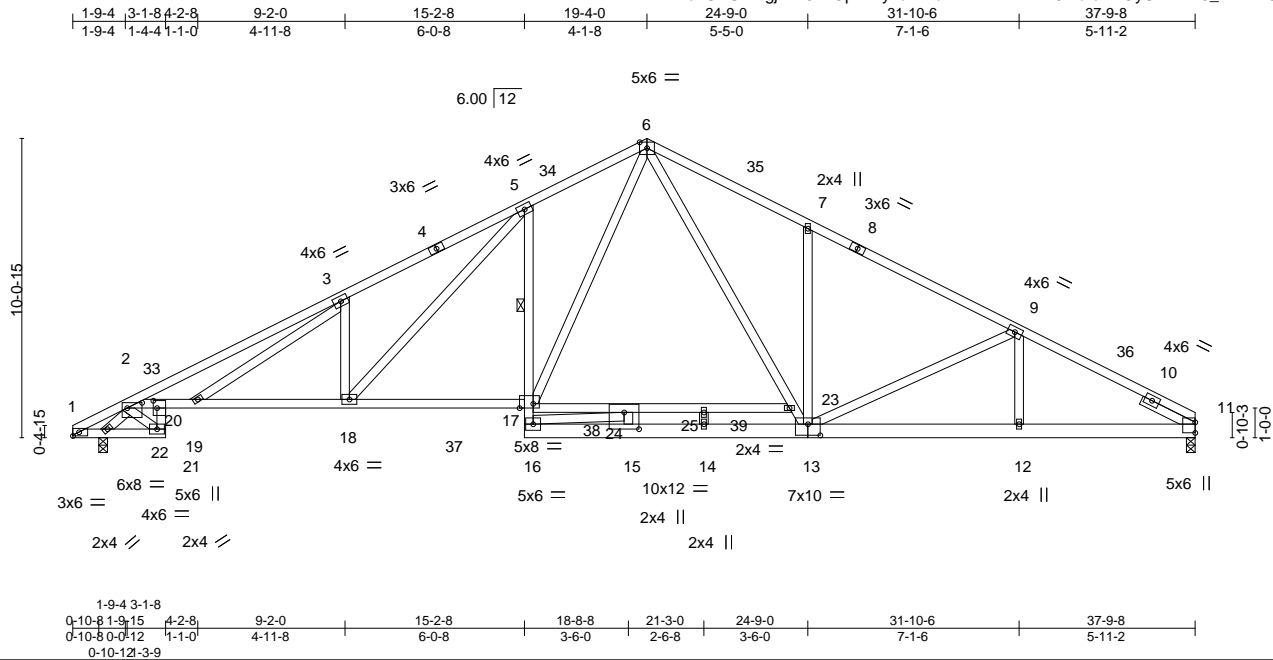


Plate Offsets (X,Y)-- [2:0-6-0,0-2-3], [13:0-5-0,0-4-8], [17:0-5-8,Edge], [20:0-3-0,0-1-8], [24:0-6-0,0-6-12]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.99	Vert(LL)	-0.21	17-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.44	17-18	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.56	Horz(CT)	0.25	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.16	17-18	>999	240	Weight: 260 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2 \*Except\*  
1-4: 2x4 SP No.1  
BOT CHORD 2x4 SP No.2 \*Except\*  
2-17: 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS  
5-16: 2x4 SP No.3, 13-16, 11-13: 2x6 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
17-23: 2x4 SP No.2  
SLIDER Right 2x4 SP No.3 1-11-12

**BRACING-**

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:  
1 Row at midpt 5-17

**REACTIONS.**

(lb/size) 11=1471/0-3-8, 22=1553/0-3-8  
Max Horz 22=148(LC 12)  
Max Uplift 11=91(LC 13), 22=99(LC 12)

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

TOP CHORD 2-33=-3976/344, 3-33=-3893/377, 3-4=-3007/300, 4-5=-2915/330, 5-34=-2137/236,  
6-34=-2088/255, 6-35=-2017/271, 7-35=-2105/245, 7-8=-1935/171, 8-9=-2106/152,  
9-36=-2366/167, 10-36=-2469/151, 10-11=-1055/0  
BOT CHORD 21-22=-244/1308, 20-21=-212/1265, 2-20=-320/3261, 19-20=-378/3482, 18-19=-230/2630,  
18-37=-74/1888, 17-37=-75/1886, 16-17=0/256, 5-17=-732/245, 15-16=0/1361,  
14-15=0/1361, 13-14=0/1361, 12-13=-86/2155, 11-12=-86/2155  
WEBS 3-18=-613/239, 5-18=-217/1088, 6-17=-173/1078, 6-23=-195/811, 13-23=-199/850,  
7-13=-425/207, 9-13=-421/142, 17-38=0/1254, 24-38=0/1251, 16-24=-1194/0,  
2-21=-1611/282, 3-19=-182/1048, 2-22=-1879/170

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 19-4-0, Exterior(2) 19-4-0 to 22-4-0, Interior(1) 22-4-0 to 37-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 11 and 99 lb uplift at joint 22.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- N/A

**LOAD CASE(S)**

Continued on page 2

**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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December 20,2024

ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek	I70341510
FNC109-R	A03HT	ROOF TRUSS	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Dec 20 14:17:16 2024 Page 2  
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**LOAD CASE(S)**

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-60, 6-11=-60, 21-26=-20, 17-20=-20, 16-29=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-50, 6-11=-50, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-11=-20, 21-26=-40, 17-20=-40, 16-29=-40, 38-39=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-33=25, 6-33=14, 6-35=25, 11-35=14, 22-26=18, 21-22=-12, 17-20=-12, 16-29=-12  
Horz: 1-33=-37, 6-33=-26, 6-35=37, 11-35=26
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-34=14, 6-34=25, 6-36=14, 11-36=25, 22-26=18, 21-22=-12, 17-20=-12, 16-29=-12  
Horz: 1-34=-26, 6-34=-37, 6-36=26, 11-36=37
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-33, 6-11=-33, 22-26=-15, 21-22=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=13, 6-11=-13
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-33, 6-11=-33, 22-26=-15, 21-22=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=13, 6-11=-13
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-2, 6-11=9, 22-26=4, 21-22=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-10, 6-11=21
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=9, 6-11=-2, 21-26=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-21, 6-11=10
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-11=-9, 22-26=-4, 21-22=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=-0, 6-11=11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-9, 6-11=-20, 21-26=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=-11, 6-11=0
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=22, 6-11=7, 21-26=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-34, 6-11=19
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=7, 6-11=22, 21-26=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-19, 6-11=34
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=11, 6-11=3, 21-26=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-23, 6-11=15
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=3, 6-11=11, 21-26=-12, 17-20=-12, 16-29=-12  
Horz: 1-6=-15, 6-11=23
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=4, 6-11=-11, 21-26=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=-24, 6-11=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-11, 6-11=4, 21-26=-20, 17-20=-20, 16-29=-20  
Horz: 1-6=-9, 6-11=24
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-11=-20, 21-26=-20, 20-37=-20, 17-37=-60, 16-29=-20, 38-39=-40
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-50, 6-11=-42, 22-26=-8, 21-22=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30  
Horz: 1-6=-0, 6-11=8
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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

818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek	I70341510
FNC109-R	A03HT	ROOF TRUSS	1	1	Job Reference (optional)	

- LOAD CASE(S)**
- Uniform Loads (plf)
- Vert: 1-6=-42, 6-11=-50, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
- Horz: 1-6=-8, 6-11=0
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-6=-32, 6-11=-43, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
- Horz: 1-6=-18, 6-11=7
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-6=-43, 6-11=-32, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
- Horz: 1-6=-7, 6-11=18
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-6=-60, 6-11=-20, 21-26=-20, 17-20=-20, 16-29=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-6=-20, 6-11=-60, 21-26=-20, 17-20=-20, 16-29=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-6=-50, 6-11=-20, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-6=-20, 6-11=-50, 21-26=-20, 20-37=-20, 17-37=-50, 16-29=-20, 38-39=-30

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

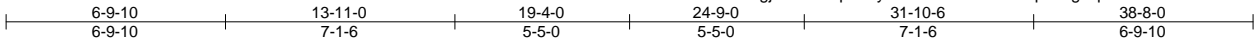
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



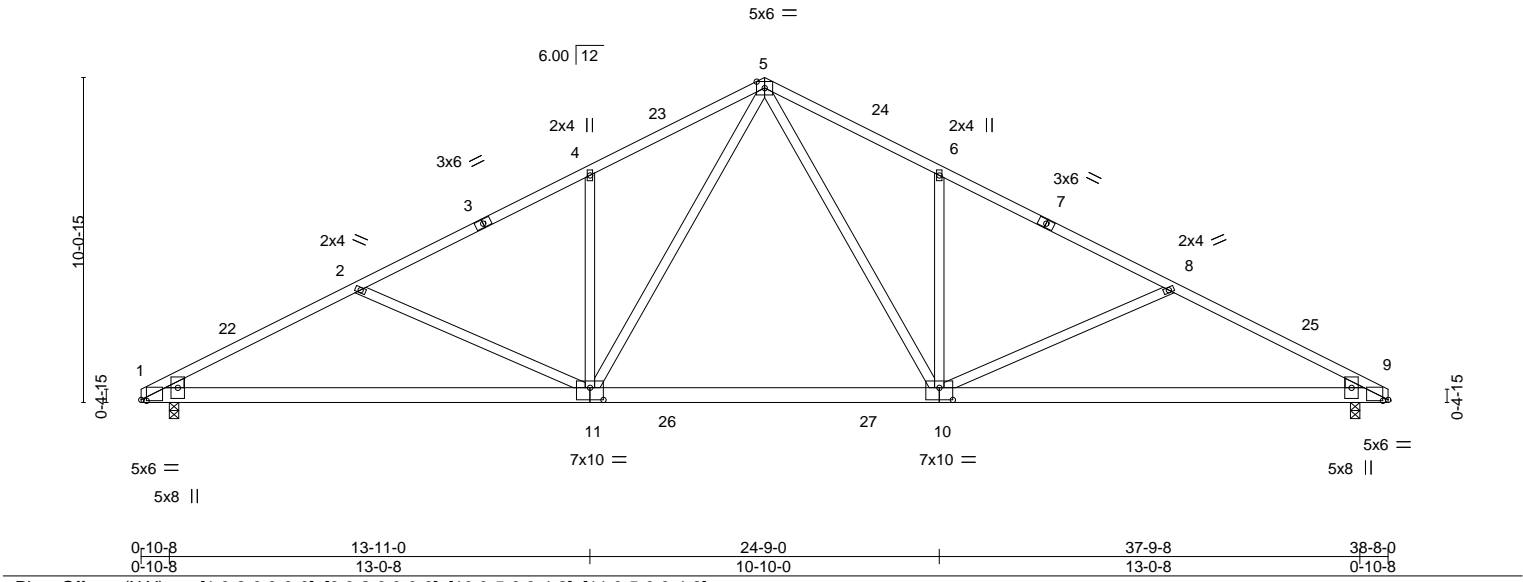
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	A04	ROOF TRUSS	1	1	170341511
Builders FirstSource (Apex, NC), Apex, NC - 27523,					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:00 2024 Page 1  
ID:hazSNSvRlgjAW5liYcphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



Scale = 1:71.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.36 10-11 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.53 10-11 >880 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.07 9 n/a n/a				
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.15 10-11 >999 240				
								Weight: 231 lb		FT = 20%	

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-7-0 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
WEDGE			
Left: 2x4 SP No.3 , Right: 2x4 SP No.3			

<b>REACTIONS.</b>	(size) 1=0-3-8, 9=0-3-8
	Max Horz 1=140(LC 17)
	Max Uplift 1=99(LC 12), 9=99(LC 13)
	Max Grav 1=1547(LC 1), 9=1547(LC 1)

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-2525/223, 2-4=-2142/155, 4-5=-2139/259, 5-6=-2139/259, 6-8=-2142/155, 8-9=-2525/223
BOT CHORD	1-11=-258/2184, 10-11=0/1392, 9-10=-119/2184
WEBS	5-10=-174/922, 6-10=-432/215, 8-10=-404/206, 5-11=-174/922, 4-11=-432/216, 2-11=-404/205

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 19-4-0, Exterior(2) 19-4-0 to 22-4-0, Interior(1) 22-4-0 to 38-8-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 1 and 99 lb uplift at joint 9.



December 20,2024

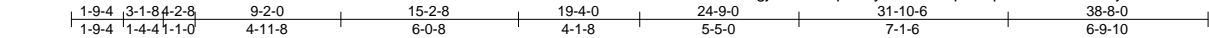
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	A04HT	ROOF TRUSS	2	1	170341512

Builders FirstSource, Apex, NC 27523

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8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Dec 20 14:17:26 2024 Page 1

Job Reference (optional)



Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek	I70341512
FNC109-R	A04HT	ROOF TRUSS	2	1	Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Fri Dec 20 14:17:26 2024 Page 2  
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-Hdq03AqnPMRWJINm95jkMbCUkMaKJu4\_QBFH3Yy72Od

# **LOAD CASE(S)**

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-60, 6-10=-60, 20-25=-20, 16-19=-20, 15-28=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-50, 6-10=-50, 20-25=-20, 19-37=-20, 16-37=-50, 15-28=-20, 38-39=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-10=-20, 20-25=-40, 16-19=-40, 15-28=-40, 38-39=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-33=25, 6-33=14, 6-35=25, 10-35=14, 21-25=18, 20-21=-12, 16-19=-12, 15-28=-12  
Horz: 1-33=-37, 6-33=-26, 6-35=37, 10-35=26
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-34=14, 6-34=25, 6-36=14, 10-36=25, 21-25=18, 20-21=-12, 16-19=-12, 15-28=-12  
Horz: 1-34=-26, 6-34=-37, 6-36=26, 10-36=37
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-33, 6-10=-33, 21-25=-15, 20-21=-20, 16-19=-20, 15-28=-20  
Horz: 1-6=13, 6-10=-13
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-33, 6-10=-33, 21-25=-15, 20-21=-20, 16-19=-20, 15-28=-20  
Horz: 1-6=13, 6-10=-13
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-2, 6-10=9, 21-25=4, 20-21=-12, 16-19=-12, 15-28=-12  
Horz: 1-6=-10, 6-10=21
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=9, 6-10=-2, 20-25=-12, 16-19=-12, 15-28=-12  
Horz: 1-6=-21, 6-10=10
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-10=-9, 21-25=-4, 20-21=-20, 16-19=-20, 15-28=-20  
Horz: 1-6=-0, 6-10=11
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-9, 6-10=-20, 20-25=-20, 16-19=-20, 15-28=-20  
Horz: 1-6=-11, 6-10=0
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=22, 6-10=7, 20-25=-12, 16-19=-12, 15-28=-12  
Horz: 1-6=-34, 6-10=19
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=7, 6-10=22, 20-25=-12, 16-19=-12, 15-28=-12  
Horz: 1-6=-19, 6-10=34
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=11, 6-10=3, 20-25=-12, 16-19=-12, 15-28=-12  
Horz: 1-6=-23, 6-10=15
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=3, 6-10=11, 20-25=-12, 16-19=-12, 15-28=-12  
Horz: 1-6=-15, 6-10=23
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=4, 6-10=-11, 20-25=-20, 16-19=-20, 15-28=-20  
Horz: 1-6=-24, 6-10=9
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-11, 6-10=4, 20-25=-20, 16-19=-20, 15-28=-20  
Horz: 1-6=-9, 6-10=24
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-10=-20, 20-25=-20, 19-37=-20, 16-37=-60, 15-28=-20, 38-39=-40
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-6=-50, 6-10=-42, 21-25=-8, 20-21=-20, 19-37=-20, 16-37=-50, 15-28=-20, 38-39=-30  
Horz: 1-6=-0, 6-10=8
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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818 Soundside Road  
Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek	I70341512
FNC109-R	A04HT	ROOF TRUSS	2	1	Job Reference (optional)	

- LOAD CASE(S)**
- Uniform Loads (plf)
- Vert: 1-6=-42, 6-10=-50, 20-25=-20, 19-37=-20, 16-37=-50, 15-28=-20, 38-39=-30
- Horz: 1-6=-8, 6-10=0
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-6=-32, 6-10=-43, 20-25=-20, 19-37=-20, 16-37=-50, 15-28=-20, 38-39=-30
- Horz: 1-6=-18, 6-10=7
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-6=-43, 6-10=-32, 20-25=-20, 19-37=-20, 16-37=-50, 15-28=-20, 38-39=-30
- Horz: 1-6=-7, 6-10=18
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-6=-60, 6-10=-20, 20-25=-20, 16-19=-20, 15-28=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-6=-20, 6-10=-60, 20-25=-20, 16-19=-20, 15-28=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-6=-50, 6-10=-20, 20-25=-20, 19-37=-20, 16-37=-50, 15-28=-20, 38-39=-30
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-6=-20, 6-10=-50, 20-25=-20, 19-37=-20, 16-37=-50, 15-28=-20, 38-39=-30

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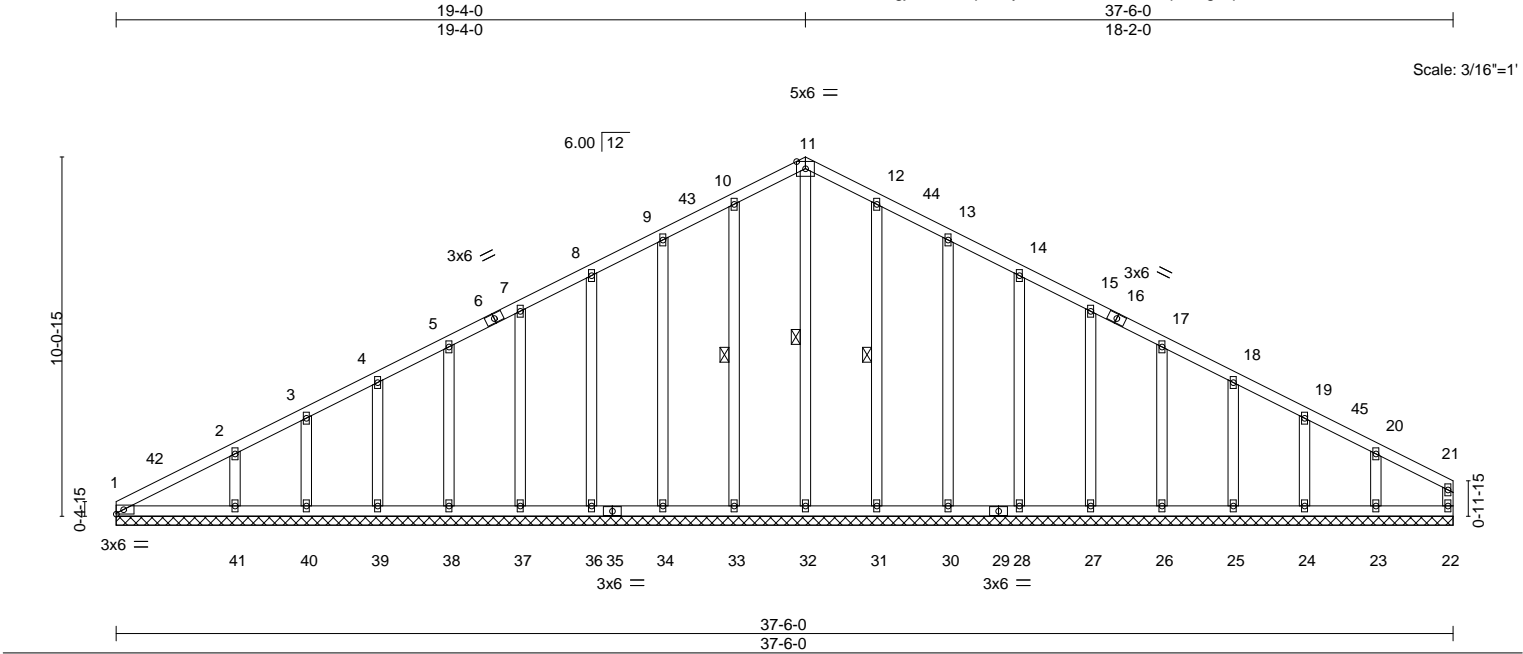
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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	A07G	GABLE	2	1	I70341513
Job Reference (optional)					

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:02 2024 Page 1  
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.00	22	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 253 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.  
WEBS 1 Row at midpt 11-32, 10-33, 12-31

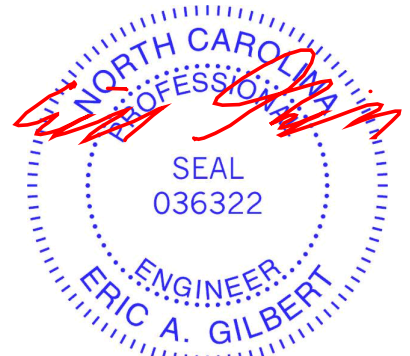
**REACTIONS.**

All bearings 37-6-0.  
(lb) - Max Horz 1=144(LC 16)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 33, 34, 36, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 23  
Max Grav All reactions 250 lb or less at joint(s) 1, 22, 32, 33, 34, 36, 37, 38, 39, 40, 31, 30, 28, 27, 26, 25, 24, 23 except 41=272(LC 23)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 19-4-0, Exterior(2) 19-4-0 to 22-4-0, Interior(1) 22-4-0 to 37-4-0 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.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 33, 34, 36, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 23.



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ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	B02	COMMON	1	1	I70341514
					Job Reference (optional)

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

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ID:hazSNSvRlgiAW5liYCphTxvydPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

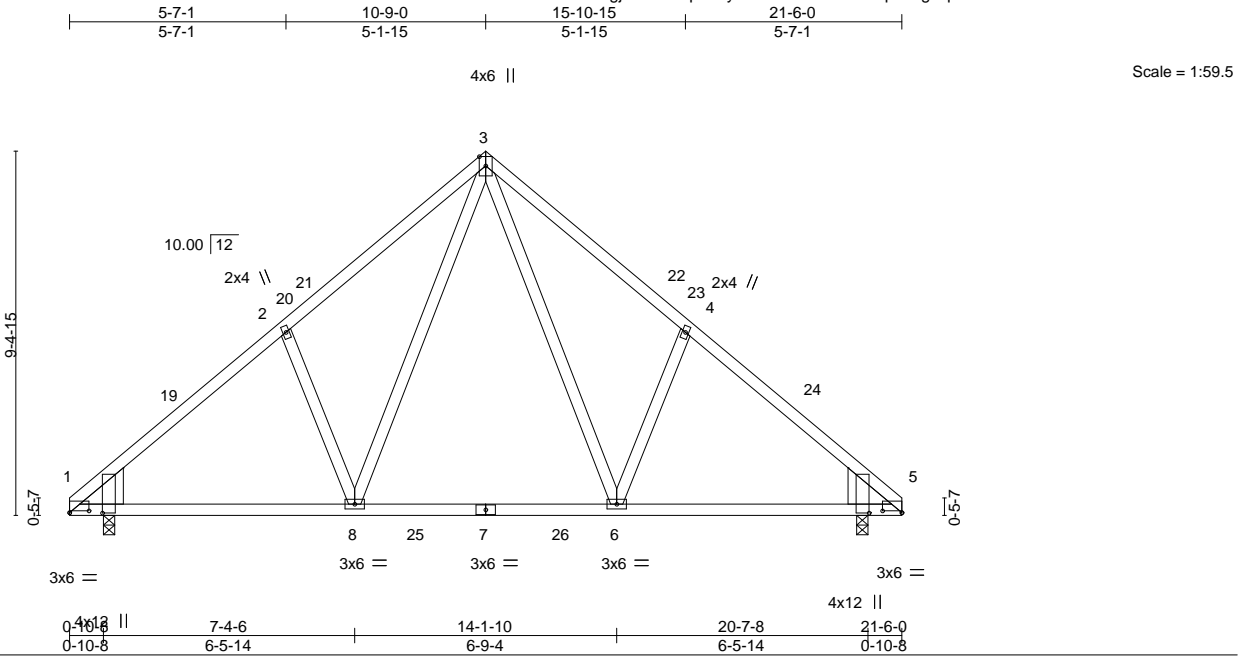


Plate Offsets (X,Y)--		[1:0-6-0,0-0-9], [1:0-0-2,0-10-3], [5:0-6-0,0-0-9], [5:0-0-2,0-10-3]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15		TC 0.49		Vert(LL) -0.15	6-8	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL 1.15		BC 0.56		Vert(CT) -0.23	6-8	>999	240		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.18		Horz(CT) 0.02	5	n/a	n/a		
BCDL 10.0		Code IRC2015/TPI2014		Matrix-MS		Wind(LL) 0.02	6-8	>999	240	Weight: 127 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

WEDGE

Left: 2x12 SP DSS or 2400F 2.0E , Right: 2x12 SP DSS or 2400F 2.0E

BRACING-

TOP CHORD

BOT CHORD

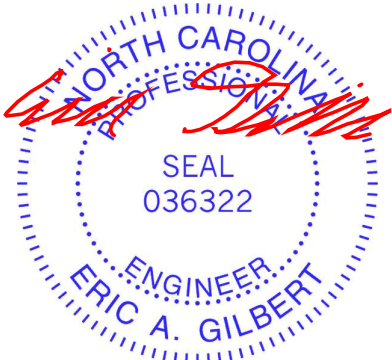
Structural wood sheathing directly applied or 5-6-3 oc purlins.

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

REACTIONS. (size) 1=0-3-8, 5=0-3-8  
Max Horz 1=192(LC 8)  
Max Uplift 1=2(LC 12), 5=2(LC 13)  
Max Grav 1=860(LC 1), 5=860(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-890/98, 2-3=-802/183, 3-4=-803/183, 4-5=-890/98  
BOT CHORD 1-8=-44/715, 6-8=0/493, 5-6=0/615  
WEBS 3-6=-98/406, 3-8=-98/406

- NOTES-
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-9-0, Exterior(2) 10-9-0 to 14-11-15, Interior(1) 14-11-15 to 21-6-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.




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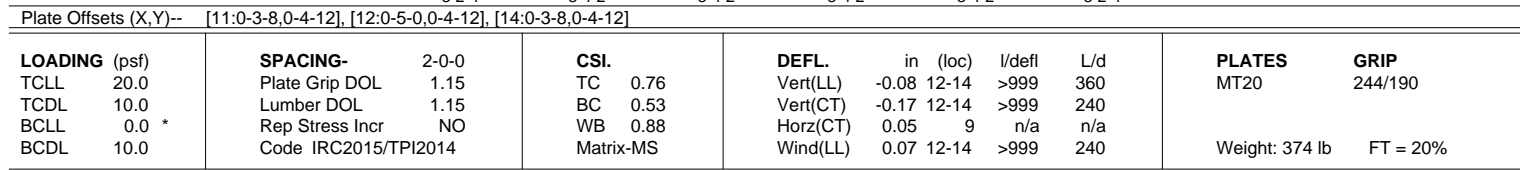
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ENGINEERING BY  
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818 Soundside Road  
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:03 2024 Page 1  
 ID:hazSNSvRIgiAW5liYCPhtXyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f  
  
 5x8 II Scale = 1:59.4



WEBS	2x4 SP No.3 *Except* 5-12: 2x4 SP No.2	SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.
SLIDER	Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	
REACTIONS.	(size) 1=0-3-8 (req. 0-4-5), 9=0-3-8 (req. 0-4-5) Max Horz 1=177(LC 6) Max Uplift 1=803(LC 8), 9=803(LC 9) Max Grav 1=7278(LC 1), 9=7278(LC 1)	

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

TOP CHORD	1-3=-8528/965, 3-4=-7455/890, 4-5=-5900/773, 5-6=-5900/773, 6-7=-7455/890, 7-9=-8528/966
BOT CHORD	1-15=-763/6111, 14-15=-763/6111, 12-14=-658/5762, 11-12=-606/5762, 10-11=-661/6111, 9-10=-661/6111
WEBS	3-15=-1511/1505, 4-14=-363/3006, 5-12=-899/7151, 6-11=-363/3006, 7-10=-152/1505, 3-14=-521/148, 4-12=-2568/410, 6-12=-2568/411, 7-11=-522/149

- NOTES-**

  - 1) N/A
  - 2) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - 3) 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.
  - 4) Unbalanced roof live loads have been considered for this design.
  - 5) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) WARNING: Required bearing size at joint(s) 1, 9 greater than input bearing size.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=803, 9=803.

December 20, 2024

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	B03GR	DBL. HOWE	1	2	I70341515

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 16-24=-20, 24-25=-751(F=-731), 20-25=-20, 1-5=-60, 5-9=-60

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	B04G	GABLE	1	1	I70341516
					Job Reference (optional)

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

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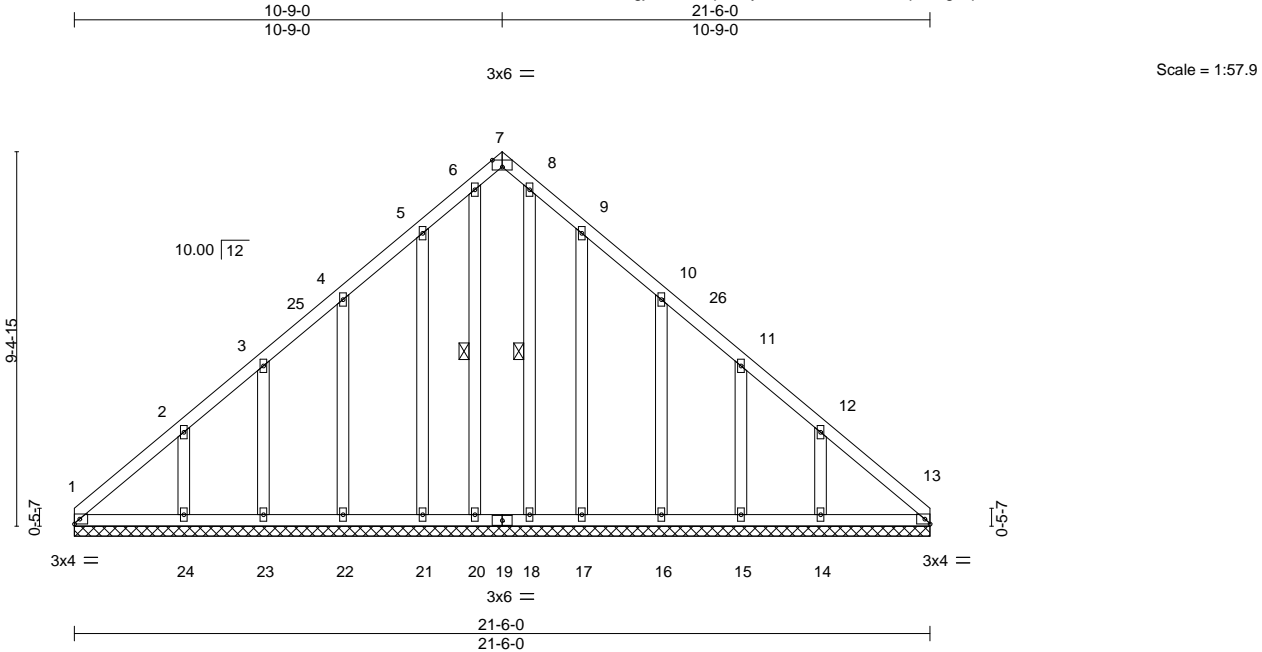


Plate Offsets (X,Y)--		[7:0-3-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09
TCDL 10.0	Lumber DOL	1.15	BC 0.06
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.01 13 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 155 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 6-20, 8-18

**REACTIONS.** All bearings 21-6-0.  
(lb) - Max Horz 1=195(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 21, 22, 23, 17, 16, 15 except 24=103(LC 12), 14=102(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 13, 20, 18, 21, 22, 23, 24, 17, 16, 15, 14

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 2-9-0, Interior(1) 2-9-0 to 10-9-0, Exterior(2) 10-9-0 to 14-9-0, Interior(1) 14-9-0 to 21-6-0 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 21, 22, 23, 17, 16, 15 except (jt=lb) 24=103, 14=102.



December 20,2024

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



Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	C02GR	COMMON	1	2	I70341517

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:04 2024 Page 1

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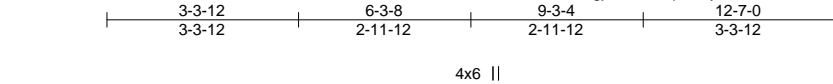


Plate Offsets (X,Y)--		[6:Edge,0-2-0], [7:0-5-0,0-4-4], [8:0-4-0,0-4-4], [9:0-5-0,0-4-4]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.03	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.06	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	8-9	>999	240	Weight: 193 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
1-10,5-6: 2x6 SP No.2

#### BRACING-

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

#### REACTIONS.

(size) 10=0-3-8, 6=0-3-8  
Max Horz 10=-131(LC 6)  
Max Uplift 10=-466(LC 8), 6=-529(LC 9)  
Max Grav 10=4682(LC 15), 6=5258(LC 15)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-10=-3954/408, 1-2=-4615/490, 2-3=-3592/437, 3-4=-3615/436, 4-5=-4702/498  
BOT CHORD 9-10=-147/580, 8-9=-410/3563, 7-8=-356/3585  
WEBS 3-8=-497/4377, 4-8=-1245/228, 4-7=-139/1531, 5-7=-372/3753, 2-8=-1197/213, 2-9=-130/1416, 1-9=-305/3123, 5-6=-4167/428

#### NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=466, 6=529.

#### LOAD CASE(S)

- Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-5=-60, 10-11=-20, 6-11=-751(F=-731)



December 20,2024

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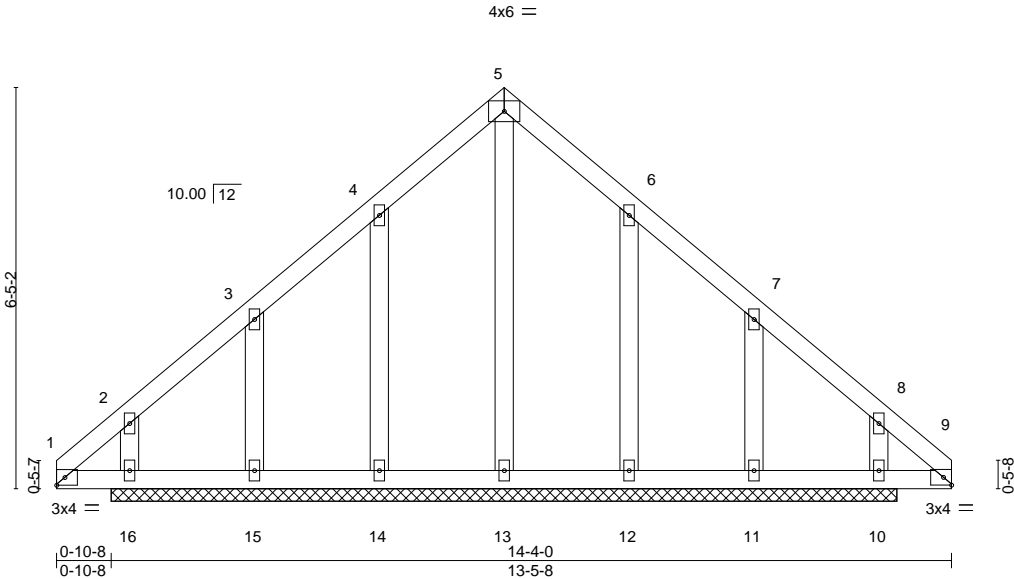
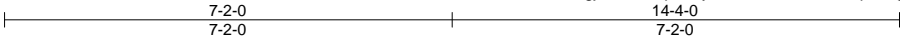
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	C03G	GABLE	1	1	170341518
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 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.12	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 81 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. All bearings 12-7-0.

(lb) - Max Horz 16=131(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 14, 16, 12, 10 except 15=118(LC 12), 11=114(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 13, 14, 15, 16, 12, 11, 10

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

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 3-2-0, Exterior(2) 3-2-0 to 7-2-0, Corner(3) 7-2-0 to 10-2-0, Exterior(2) 10-2-0 to 14-4-0 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
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 16, 12, 10 except (jt=lb) 15=118, 11=114.
  - 9) Non Standard bearing condition. Review required.



December 20,2024

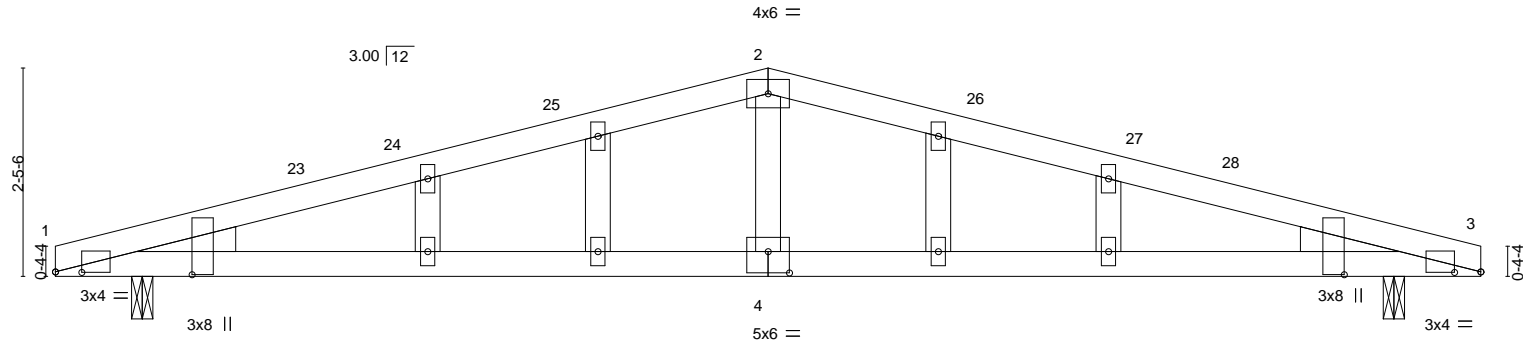
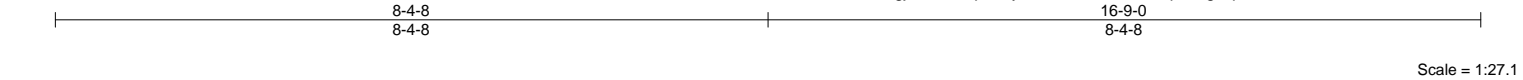
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	CP01G	GABLE	1	1	170341519
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:05 2024 Page 1  
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



0-10-12 0-10-12	8-4-8 7-5-12	15-10-4 7-5-12	16-9-0 0-10-12
Plate Offsets (X,Y)-- [1:0-3-11,0-0-1], [1:0-0-6,1-7-4], [3:0-0-6,1-7-4], [3:0-3-11,0-0-1], [4:0-3-0,0-3-0]			
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d
TCLL 20.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL) -0.10 4-17 >999 360
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.17 4-17 >999 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.02 3 n/a n/a
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.07 4-17 >999 240
		<b>PLATES</b> MT20	<b>GRIP</b> 244/190
		Weight: 64 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  
WEDGE

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

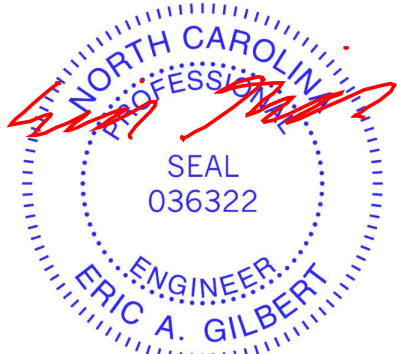
(size) 1=0-3-0, 3=0-3-0  
Max Horz 1=33(LC 12)  
Max Uplift 1=-56(LC 8), 3=-56(LC 9)  
Max Grav 1=670(LC 1), 3=670(LC 1)

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

TOP CHORD 1-2=-1234/129, 2-3=-1234/129  
BOT CHORD 1-4=-74/1154, 3-4=-74/1154  
WEBS 2-4=0/296

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-4-8, Exterior(2) 8-4-8 to 12-7-7, Interior(1) 12-7-7 to 16-9-0 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	CP02	COMMON	3	1	170341520
					Job Reference (optional)

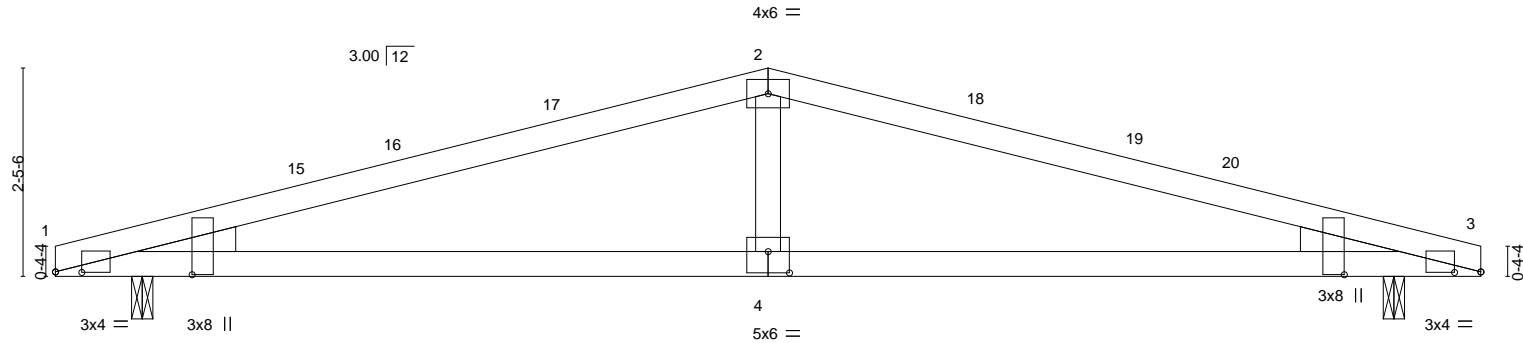
Builders FirstSource (Apex, NC),Apex, NC - 27523,

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:06 2024 Page 1

ID:hazSNSvRIgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDdi7J4zJC?f

8-4-88-4-816-9-08-4-8

Scale = 1:27.1



0-10-12	8-4-8	15-10-4	16-9-0
0-10-12	7-5-12	7-5-12	0-10-12

Plate Offsets (X,Y)-- [1:0-3-11,0-0-1], [1:0-0-6,1-7-4], [3:0-0-6,1-7-4], [3:0-3-11,0-0-1], [4:0-3-0,0-3-0]							
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	in (loc)	l/defl
TCDL	10.0	Lumber DOL	1.15	BC	0.57	-0.10 4-9	>999 360
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	-0.17 4-9	>999 240
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		0.02 3	n/a n/a
						Wind(LL)	0.07 4-9 >999 240
						Weight: 57 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-0, 3=0-3-0  
Max Horz 1=33(LC 12)  
Max Uplift 1=-56(LC 8), 3=-56(LC 9)  
Max Grav 1=670(LC 1), 3=670(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1234/129, 2-3=-1234/129  
BOT CHORD 1-4=-74/1154, 3-4=-74/1154  
WEBS 2-4=0/296

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-4-8, Exterior(2) 8-4-8 to 12-7-7, Interior(1) 12-7-7 to 16-9-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



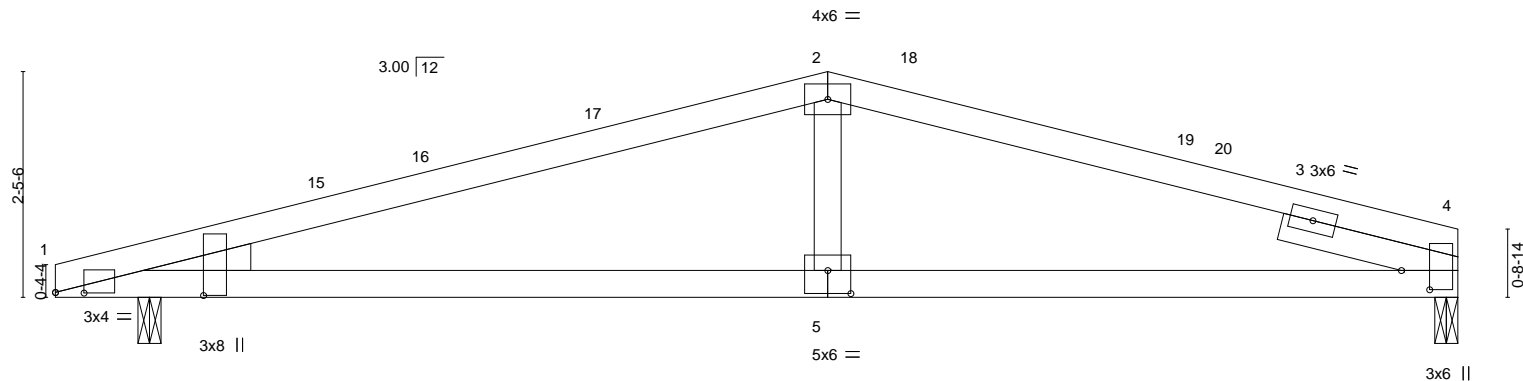
December 20,2024

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

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	CP03	COMMON	2	1	170341521
Builders FirstSource (Apex, NC), Apex, NC - 27523,					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:06 2024 Page 1  
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDdi7J4zJC?f



0-10-12	8-4-8	15-2-8
0-10-12	7-5-12	6-10-0
Plate Offsets (X,Y)-- [1:0-0-6,1-7-4], [1:0-3-11,0-0-1], [4:0-2-8,0-3-11], [5:0-3-0,0-3-0]		

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	-0.11	5-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.19	5-14	>968	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.03	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.08	5-14	>999	240	Weight: 54 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3	
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS.	(size)	4=0-3-0, 1=0-3-0
	Max Horz	1=39(LC 12)
	Max Uplift	4=-43(LC 9), 1=-56(LC 8)
	Max Grav	4=570(LC 1), 1=646(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1127/135, 2-4=-1118/143
BOT CHORD	1-5=-96/1050, 4-5=-96/1050
WEBS	2-5=0/277

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-4-8, Exterior(2) 8-4-8 to 12-7-7, Interior(1) 12-7-7 to 15-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 1.



December 20,2024

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	M01G	GABLE	1	1	170341522
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:07 2024 Page 1  
ID:hazSNSvRlgjAW5liYcPhTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

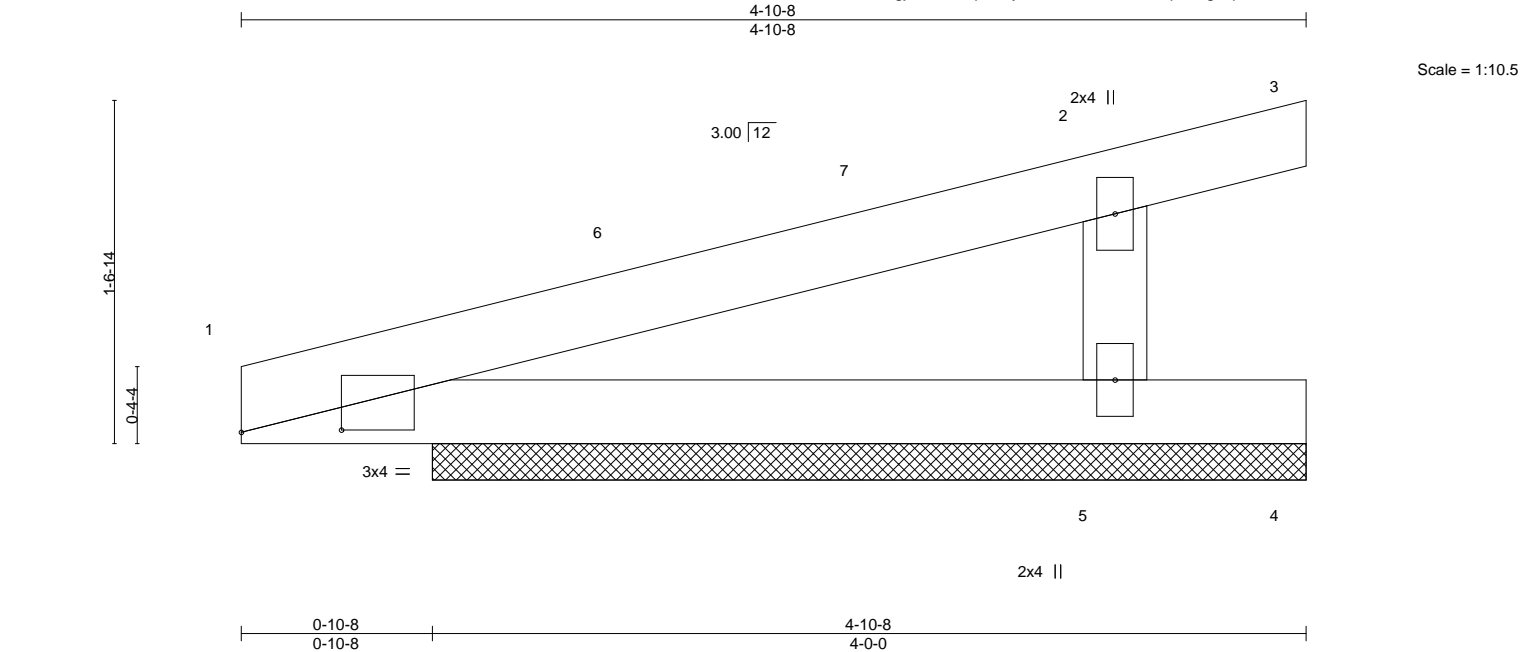


Plate Offsets (X,Y)--		[1:0-5-8,0-0-2]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21
TCDL 10.0	Lumber DOL	1.15	BC 0.13
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P
		DEFL. in (loc) l/defl L/d	
		Vert(LL) n/a - n/a 999	
		Vert(CT) n/a - n/a 999	
		Horz(CT) -0.00 3 n/a n/a	
		PLATES	GRIP
		MT20	244/190
		Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS.	(size) 1=4-0-0, 3=4-0-0, 4=4-0-0, 5=4-0-0
	Max Horz 1=43(LC 8)
	Max Uplift 1=-8(LC 8), 3=-85(LC 1), 4=-58(LC 3), 5=-55(LC 8)
	Max Grav 1=127(LC 1), 3=34(LC 8), 5=377(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	2-5=-282/285

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-0-0 to 3-0-0, Exterior(2) 3-0-0 to 4-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) Gable studs spaced at 2-0-0 oc.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4, 5.
  - 7) Non Standard bearing condition. Review required.



December 20,2024



Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	M02	JACK	5	1	170341523
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:07 2024 Page 1  
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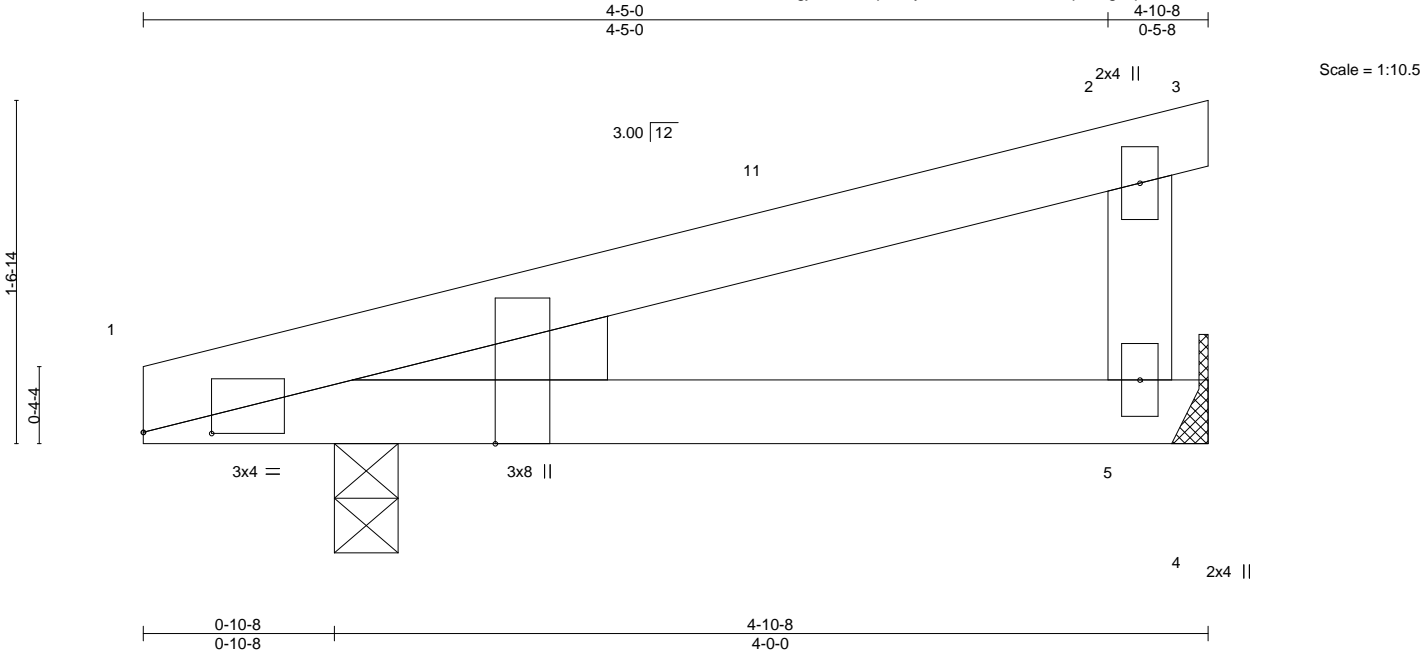


Plate Offsets (X,Y)--		[1:0-3-12,0-0-1], [1:0-0-10,Edge]															
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL 1.15		TC	0.15	Vert(LL)	-0.01	5-10	>999	360		MT20		244/190			
TCDL	10.0	Lumber DOL 1.15		BC	0.15	Vert(CT)	-0.02	5-10	>999	240							
BCLL	0.0 *	Rep Stress Incr YES		WB	0.02	Horz(CT)	0.00	1	n/a	n/a							
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.01	5-10	>999	240		Weight: 18 lb		FT = 20%			

LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 1=0-3-8, 5=Mechanical  
Max Horz 1=41(LC 8)  
Max Uplift 1=20(LC 8), 5=25(LC 8)  
Max Grav 1=225(LC 1), 5=165(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



December 20,2024

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ENGINEERING BY  
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A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	M03	JACK	1	1	170341524
Job Reference (optional)					

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:07 2024 Page 1  
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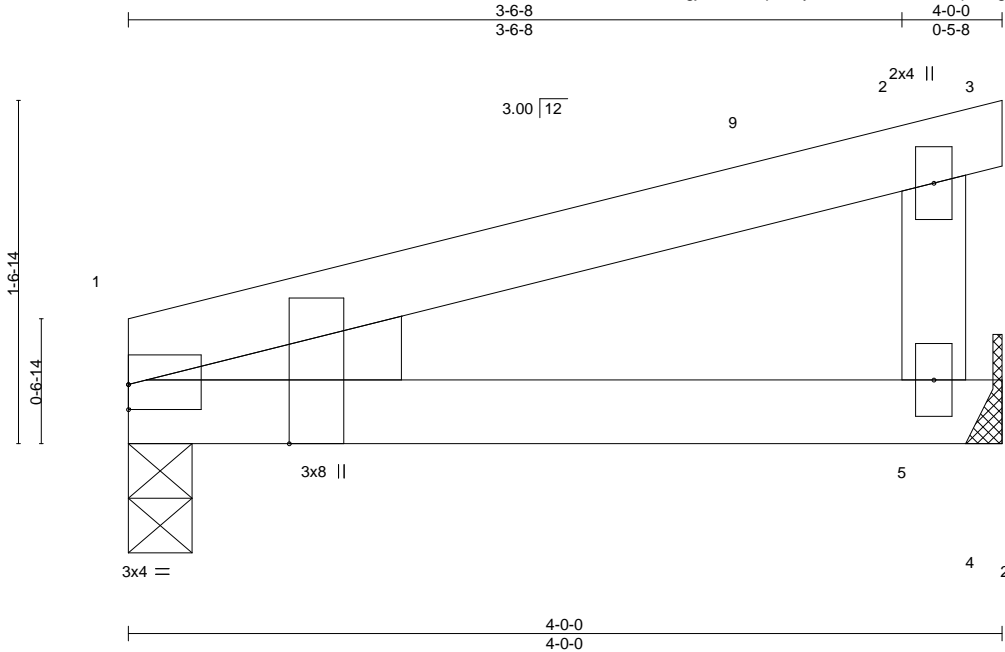


Plate Offsets (X,Y)-- [1:0-0-0,0-1-6], [1:0-3-4,Edge]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.01 5-8	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.02 5-8	>999	240	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00 1	n/a	n/a	
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.01 5-8	>999	240	Weight: 15 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3

BRACING-

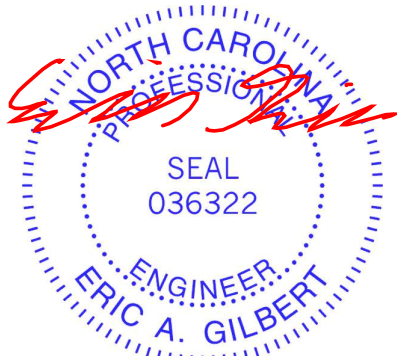
TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=Mechanical  
Max Horz 1=33(LC 8)  
Max Uplift 1=-11(LC 8), 5=-26(LC 8)  
Max Grav 1=146(LC 1), 5=174(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 3-10-8, Interior(1) 3-10-8 to 4-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



December 20,2024

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	P04G	GABLE	1	1	170341525
Builders FirstSource (Apex, NC), Apex, NC - 27523,					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:08 2024 Page 1  
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

4-2-11 6-6-0  
4-2-11 2-3-5

Scale = 1:14.4

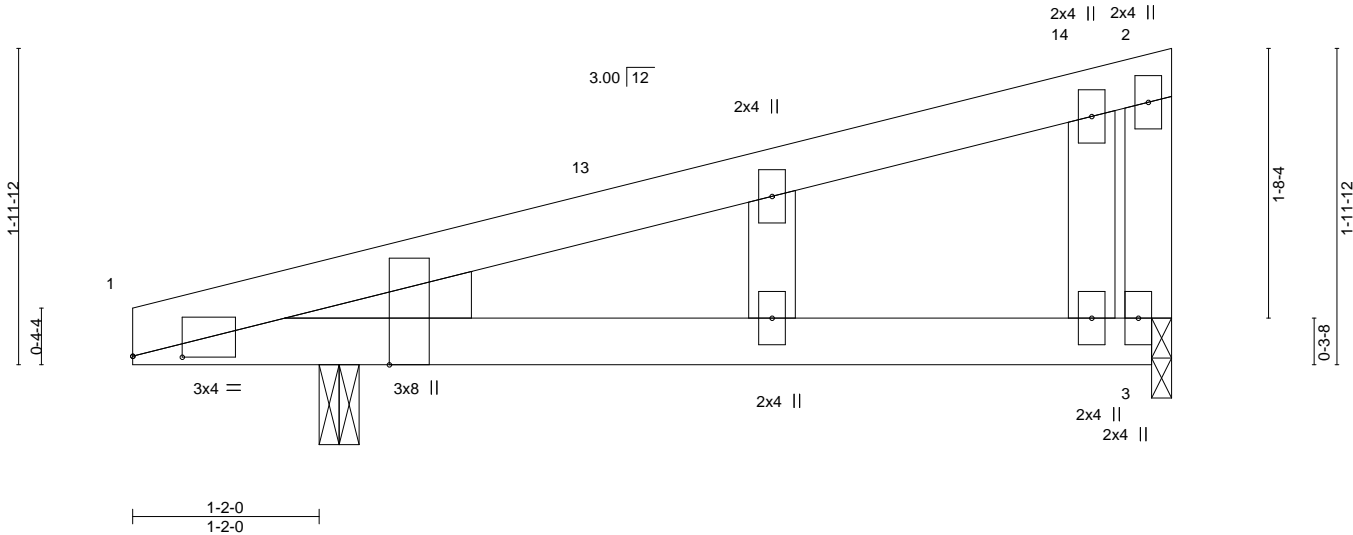


Plate Offsets (X,Y)--		[1:0-3-11,0-0-1], [1:0-0-10,Edge]															
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL 1.15		TC	0.36	Vert(LL)		-0.03	3-12	>999		360		MT20		244/190	
TCDL	10.0	Lumber DOL 1.15		BC	0.29	Horz(CT)		-0.07	3-12	>999		240					
BCLL	0.0 *	Rep Stress Incr YES		WB	0.00			0.00	1	n/a		n/a					
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)		0.03	3-12	>999		240		Weight: 26 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  
WEDGE  
Left: 2x4 SP No.3

BRACING-

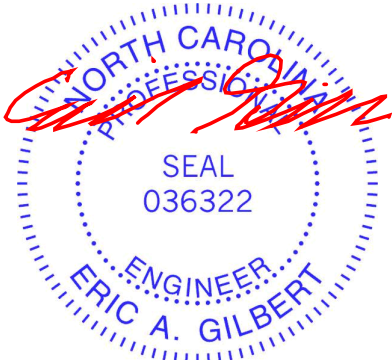
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-0, 3=0-1-8  
Max Horz 1=57(LC 11)  
Max Uplift 1=33(LC 8), 3=28(LC 8)  
Max Grav 1=311(LC 1), 3=197(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 3 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 at joint(s) 3.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



December 20,2024

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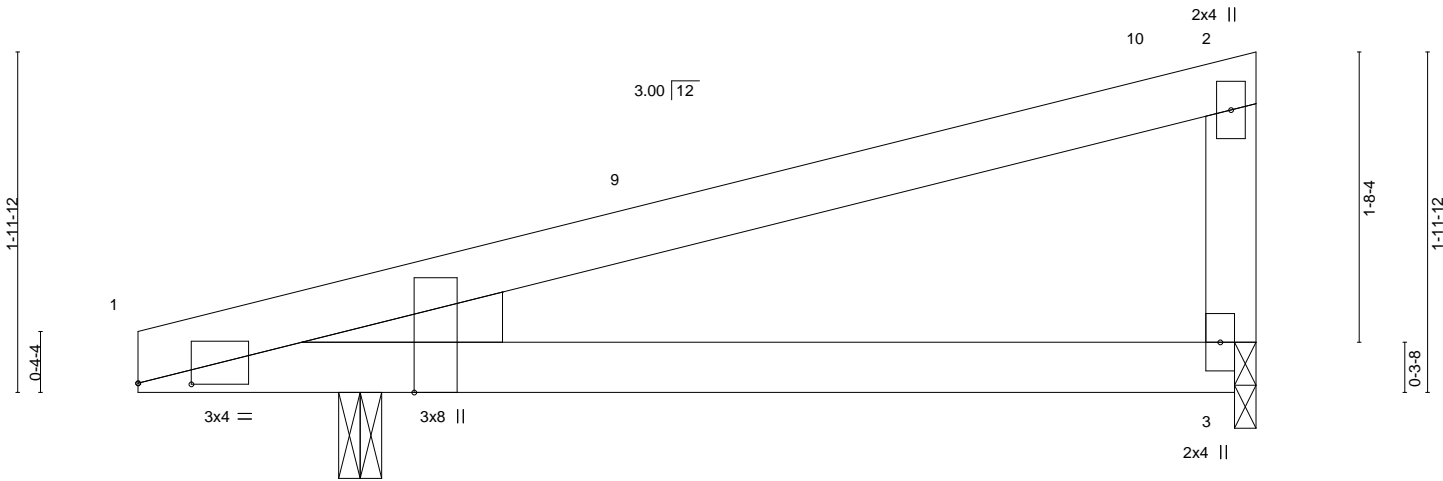
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	P05	MONO TRUSS	6	1	170341526
Builders FirstSource (Apex, NC), Apex, NC - 27523,					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:08 2024 Page 1  
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



Scale = 1:13.4



<div><div></div><div>1-2-0</div><div>1-2-0</div></div>											
Plate Offsets (X,Y)--		[1:0-3-11,0-0-1], [1:0-0-10,Edge]									
LOADING (psf)		SPACING-2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL 1.15		TC	0.36	Vert(LL)	-0.03 3-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15		BC	0.29	Vert(CT)	-0.07 3-8	>999	240		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.00	Horz(CT)	0.00 1	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.03 3-8	>999	240	Weight: 23 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3

**BRACING-**

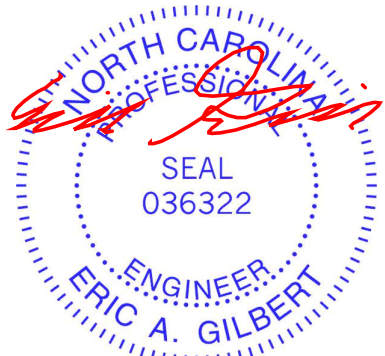
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-3-0, 3=0-1-8  
Max Horz 1=57(LC 11)  
Max Uplift 1=33(LC 8), 3=28(LC 8)  
Max Grav 1=311(LC 1), 3=197(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



December 20,2024

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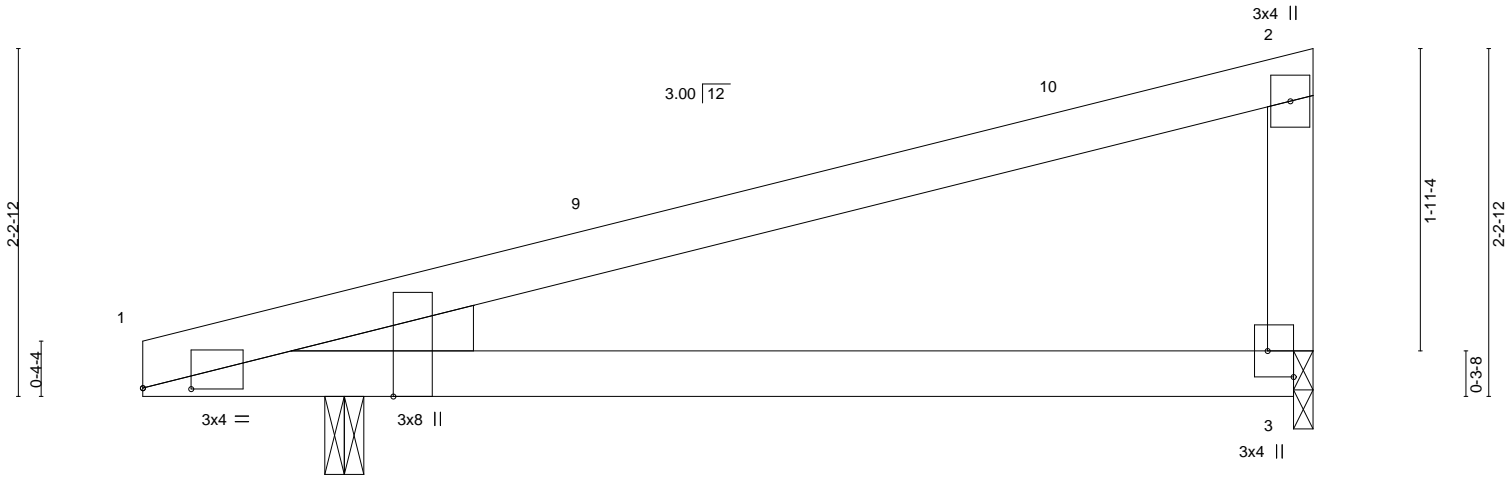
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	P06	MONO TRUSS	3	1	170341527
Builders FirstSource (Apex, NC), Apex, NC - 27523,					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:09 2024 Page 1  
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

4-2-11  
4-2-11

7-6-0  
3-3-5

Scale = 1:14.8



<div><div></div><div>1-2-0</div><div></div></div> <div><div></div><div>1-2-0</div><div></div></div>										Plate Offsets (X,Y)-- [1:0-3-11,0-0-1], [1:0-0-10,Edge], [3:Edge,0-2-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP									
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.04	3-8	>999	360	MT20	244/190							
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.09	3-8	>992	240									
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a									
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.04	3-8	>999	240	Weight: 27 lb	FT = 20%							

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3

**BRACING-**

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

**REACTIONS.** (size) 1=0-3-0, 3=0-1-8  
Max Horz 1=66(LC 11)  
Max Uplift 1=37(LC 8), 3=33(LC 8)  
Max Grav 1=350(LC 1), 3=239(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 7-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



December 20,2024

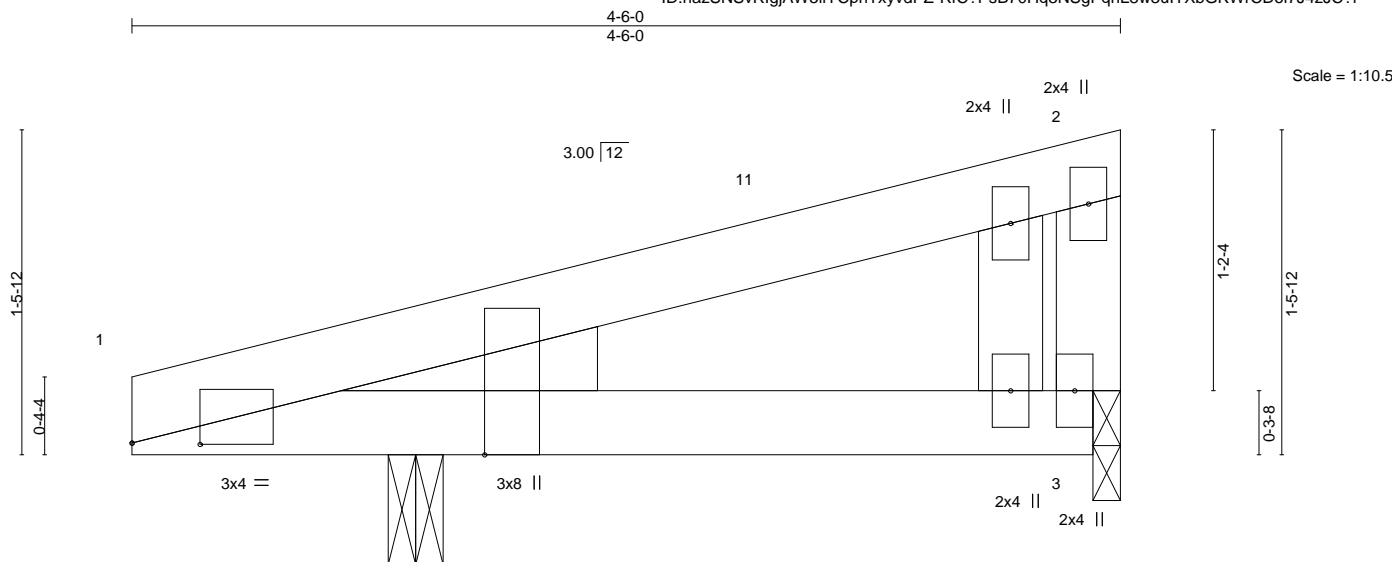
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818 Soundside Road  
Edenton, NC 27932

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:09 2024 Page 1  
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3u1TXbGKWRcDoi7J4zJC?f



<div style="text-align: center;"> </div>									
Plate Offsets (X,Y)-- [1:0-3-11,0-0-1], [1:0-0-10,Edge]									
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>	<b>GRIP</b>
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00 10 >999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01 3-10 >999 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 1 n/a n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00 10 >999 240	Weight: 18 lb	FT = 20%

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

**REACTIONS.** (size) 1=0-3-0, 3=0-1-8  
 Max Horz 1=40(LC 11)  
 Max Uplift 1=25(LC 8), 3=17(LC 12)  
 Max Grav 1=238(LC 1), 3=110(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL= 1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2'-0" oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 3 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 at joint(s) 3.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



December 20, 2024

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818 Soundside Road  
Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	V01	GABLE	1	1	170341529
					Job Reference (optional)

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

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:10 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

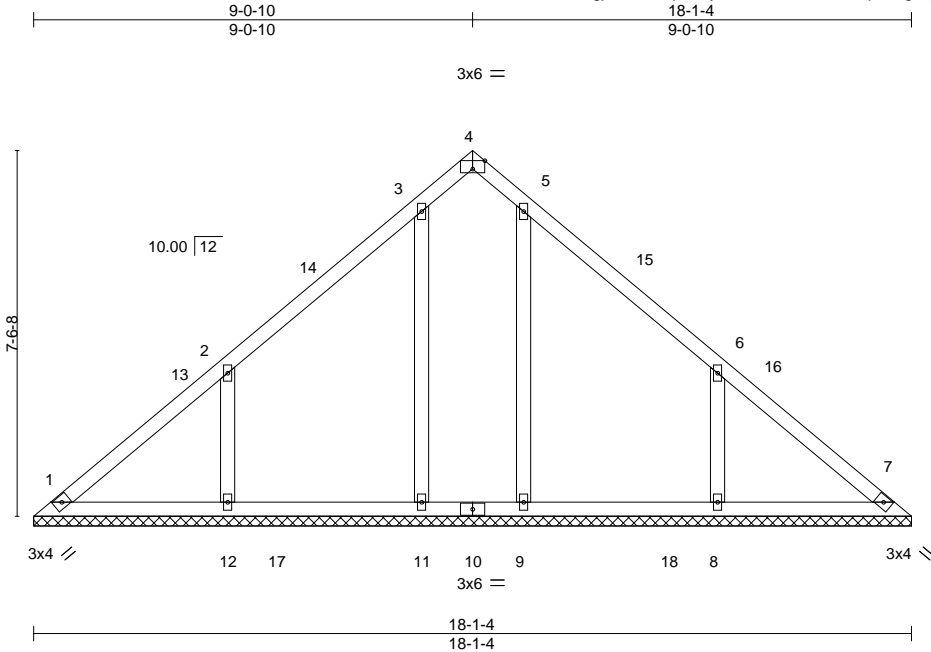


Plate Offsets (X,Y)--		[4:0-3-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.36
TCDL 10.0	Lumber DOL	1.15	BC 0.23
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.01 7 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 87 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.3

BOT CHORD 2x4 SP No.3

OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 18-1-4.

(lb) - Max Horz 1=-155(LC 10)

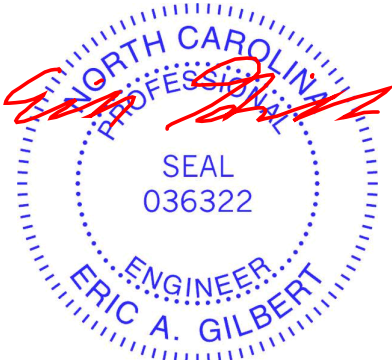
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 11 except 8=-149(LC 13), 12=-148(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 8=415(LC 20), 9=314(LC 20), 12=414(LC 19), 11=325(LC 19)

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

WEBS 6-8=-283/196, 2-12=-283/194

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 9-0-10, Exterior(2) 9-0-10 to 12-0-10, Interior(1) 12-0-10 to 17-8-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are 2x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 11 except (jt=lb) 8=149, 12=148.



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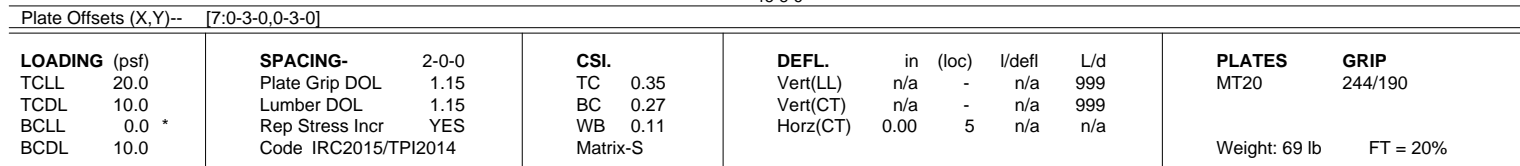
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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**TRENCO**  
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Edenton, NC 27932

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ID:hazSNSvRIgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f  
7-10-3 15-8-6  
7-10-3 7-10-3  
4x6 = Scale = 1:40.5



**REACTIONS.** All bearings 15-8-6.  
 (lb) - Max Horz 1=133(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 6=150(LC 13), 8=150(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=342(LC 22), 6=403(LC 20), 8=403(LC 19)

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

**WEBS** 4-6=285/193, 2-8=285/193

**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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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	V03	GABLE	1	1	170341531
					Job Reference (optional)

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

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:11 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

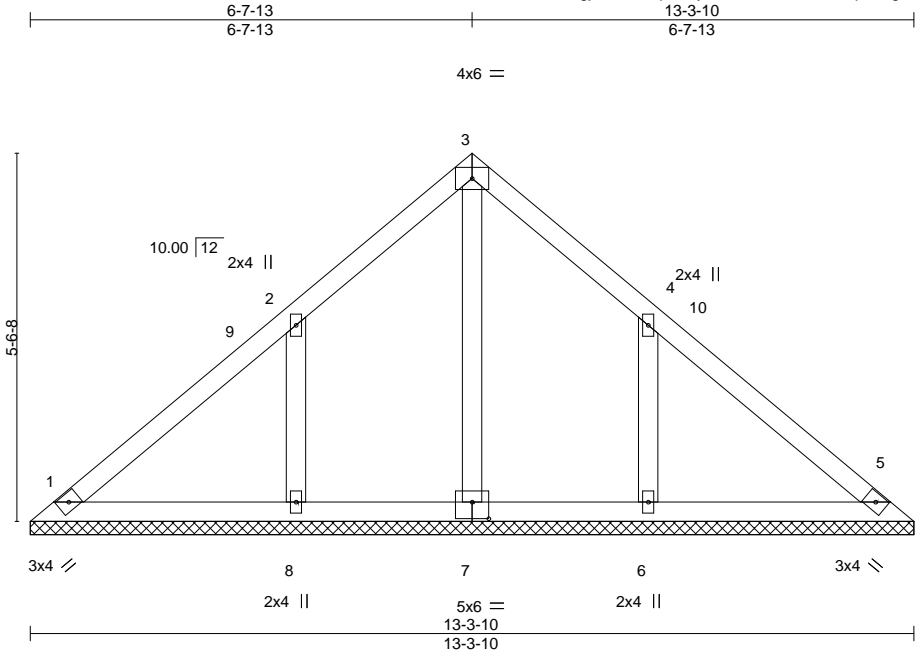


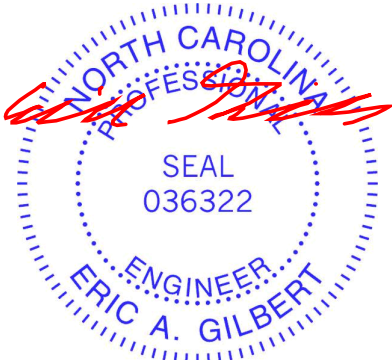
Plate Offsets (X,Y)-- [7:0-3-0,0-3-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a - n/a	999	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a - n/a	999	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00 5 n/a	n/a	
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 60 lb FT = 20%

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

REACTIONS. All bearings 13-3-10.  
(lb) - Max Horz 1=112(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) except 6=-129(LC 13), 8=-129(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 6=333(LC 20), 8=333(LC 19)

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

- NOTES-
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 6-7-13, Exterior(2) 6-7-13 to 9-7-13, Interior(1) 9-7-13 to 12-10-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 6 and 129 lb uplift at joint 8.



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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	V04	GABLE	1	1	170341532
					Job Reference (optional)

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

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:11 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

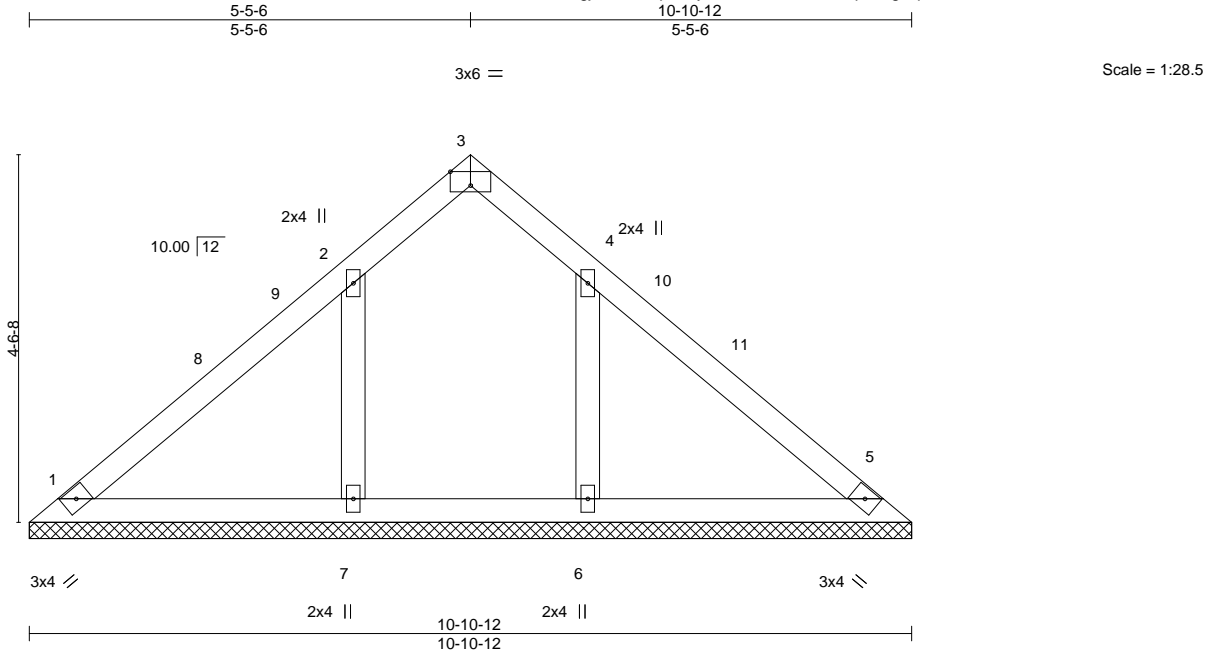


Plate Offsets (X,Y)--		[3:0-3-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28
TCDL 10.0	Lumber DOL	1.15	BC 0.17
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 5 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 44 lb FT = 20%

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

REACTIONS. All bearings 10-10-12.  
(lb) - Max Horz 1=90(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) except 6=111(LC 13), 7=113(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=311(LC 20), 7=313(LC 19)

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

- NOTES-
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-5-6, Exterior(2) 5-5-6 to 8-5-6, Interior(1) 8-5-6 to 10-5-15 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
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 6 and 113 lb uplift at joint 7.



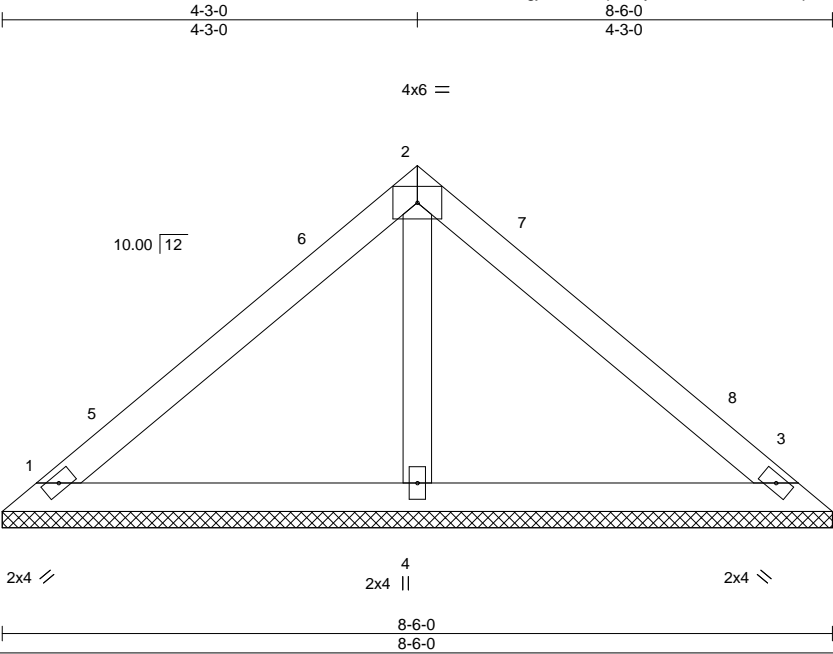
December 20,2024

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	V05	GABLE	1	1	I70341533
					Job Reference (optional)

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

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:12 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 32 lb	FT = 20%

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

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

REACTIONS. (size) 1=8'-6"-0, 3=8'-6"-0, 4=8'-6"-0  
Max Horz 1=69(LC 9)  
Max Uplift 1=-17(LC 13), 3=-26(LC 13)  
Max Grav 1=161(LC 1), 3=161(LC 1), 4=293(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0'-4'-13 to 3'-4'-13, Interior(1) 3'-4'-13 to 4'-3'-0, Exterior(2) 4'-3'-0 to 7'-3'-0, Interior(1) 7'-3'-0 to 8'-1'-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6"-0 tall by 2'-0"-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1 and 26 lb uplift at joint 3.



December 20,2024

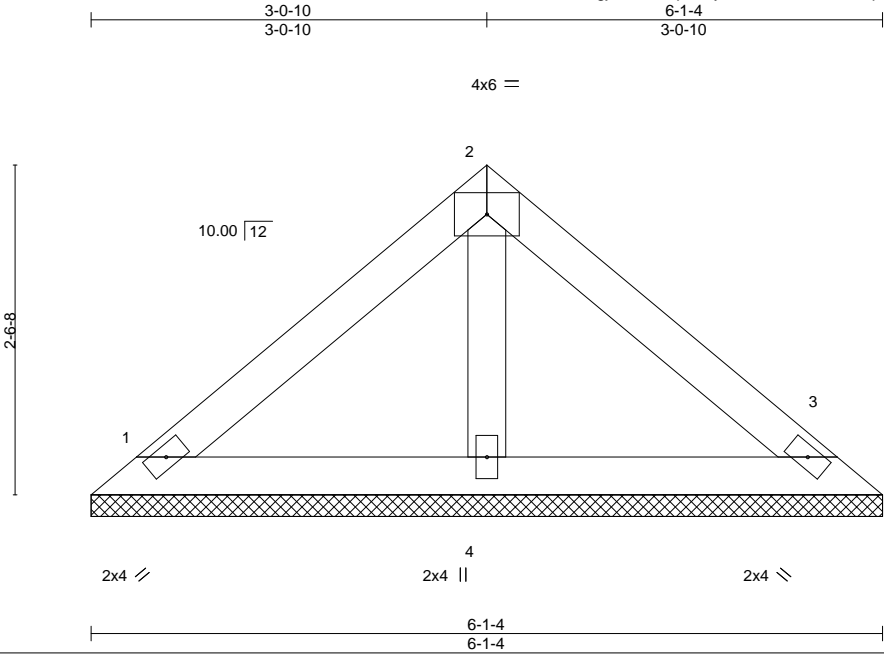
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	V06	GABLE	1	1	I70341534
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:12 2024 Page 1  
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 22 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=6-1-4, 3=6-1-4, 4=6-1-4  
Max Horz 1=-47(LC 8)  
Max Uplift 1=-18(LC 13), 3=-24(LC 13)  
Max Grav 1=120(LC 1), 3=120(LC 1), 4=183(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 24 lb uplift at joint 3.



December 20,2024

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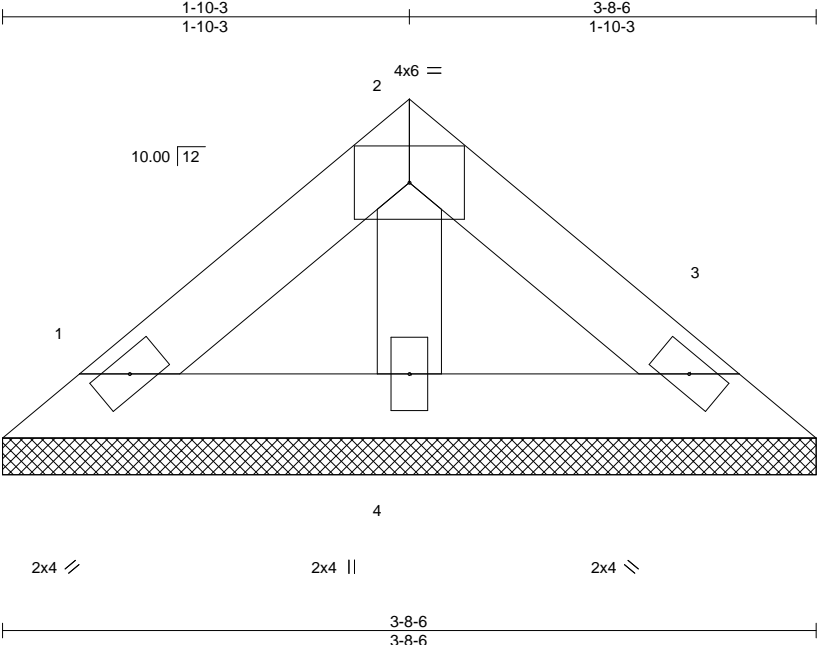


Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	V07	GABLE	1	1	170341535
					Job Reference (optional)

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

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:12 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



Scale = 1:10.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 13 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.3	TOP CHORD	Structural wood sheathing directly applied or 3-8-6 oc purlins.
BOT CHORD	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		

**REACTIONS.** (size) 1=3-8-6, 3=3-8-6, 4=3-8-6  
Max Horz 1=-26(LC 8)  
Max Uplift 1=-10(LC 13), 3=-13(LC 13)  
Max Grav 1=66(LC 1), 3=66(LC 1), 4=100(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1 and 13 lb uplift at joint 3.



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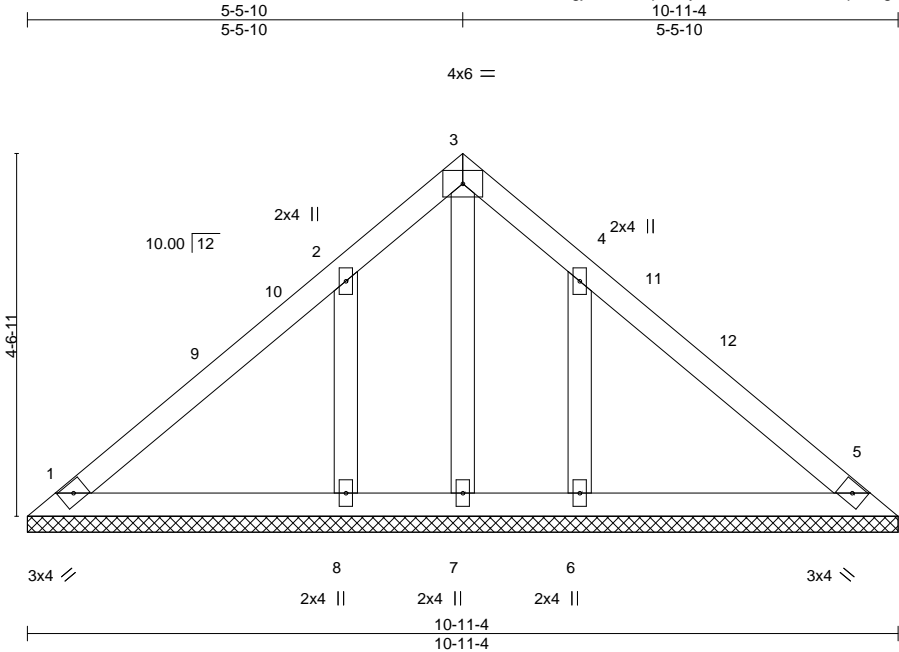
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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	V09	GABLE	1	1	170341536
					Job Reference (optional)

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

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:13 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 50 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 10-11-4.  
(lb) - Max Horz 1=91(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 7 except 6=119(LC 13), 8=119(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 6=327(LC 20), 8=328(LC 19)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-5-10, Exterior(2) 5-5-10 to 8-5-10, Interior(1) 8-5-10 to 10-6-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 6=119, 8=119.



December 20,2024

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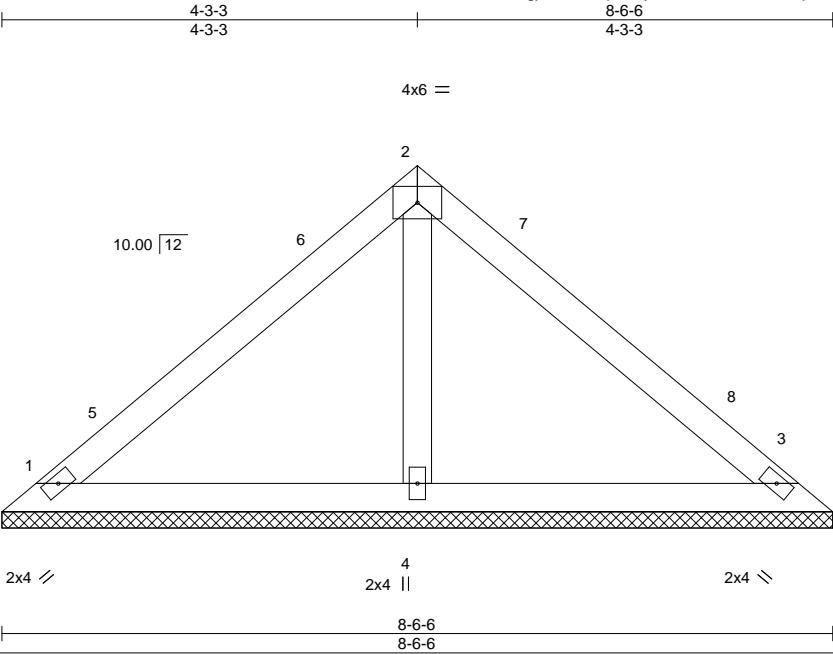
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	V10	GABLE	1	1	170341537
					Job Reference (optional)

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

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:13 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



Scale = 1:23.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 32 lb	FT = 20%

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

**REACTIONS.** (size) 1=8-6-6, 3=8-6-6, 4=8-6-6  
Max Horz 1=-69(LC 8)  
Max Uplift 1=-17(LC 13), 3=-26(LC 13)  
Max Grav 1=162(LC 1), 3=162(LC 1), 4=294(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-3-3, Exterior(2) 4-3-3 to 7-3-3, Interior(1) 7-3-3 to 8-1-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



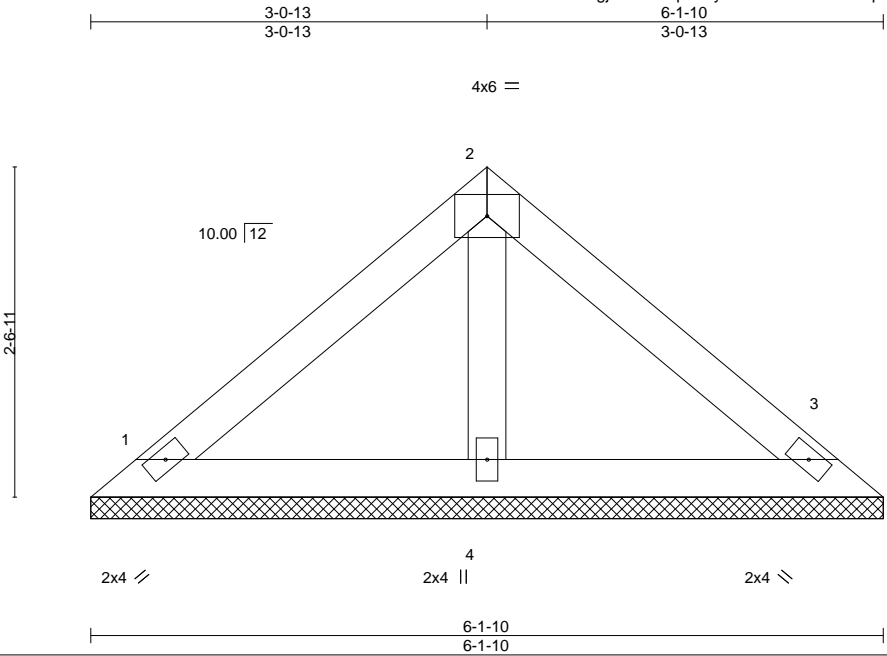
December 20,2024

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	V11	GABLE	1	1	I70341538
Builders FirstSource (Apex, NC), Apex, NC - 27523,					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Dec 20 04:51:14 2024 Page 1  
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



Scale = 1:17.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 22 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

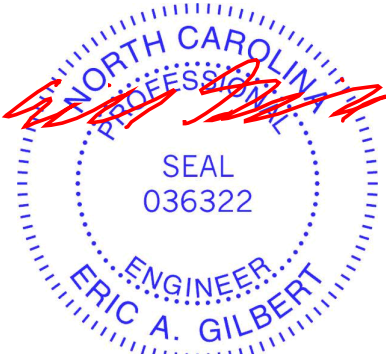
**REACTIONS.**

(size) 1=6-1-10, 3=6-1-10, 4=6-1-10  
Max Horz 1=48(LC 10)  
Max Uplift 1=18(LC 13), 3=24(LC 13)  
Max Grav 1=121(LC 1), 3=121(LC 1), 4=184(LC 1)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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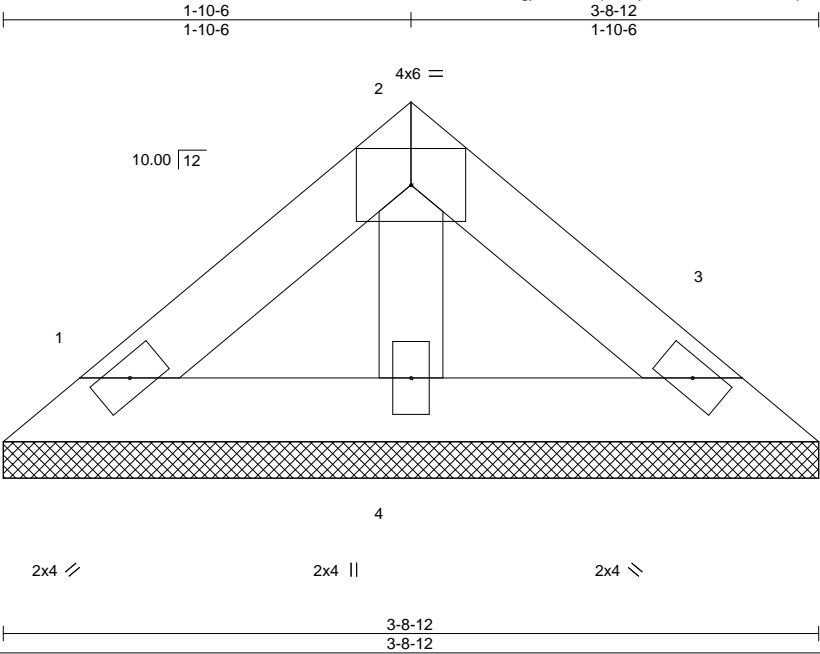
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeilsCreek
FNC109-R	V12	GABLE	1	1	170341539
					Job Reference (optional)

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

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ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 13 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.3	TOP CHORD	Structural wood sheathing directly applied or 3-8-12 oc purlins.
BOT CHORD	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		

**REACTIONS.** (size) 1=3-8-12, 3=3-8-12, 4=3-8-12  
Max Horz 1=-26(LC 8)  
Max Uplift 1=-10(LC 13), 3=-13(LC 13)  
Max Grav 1=66(LC 1), 3=66(LC 1), 4=101(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



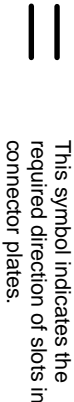
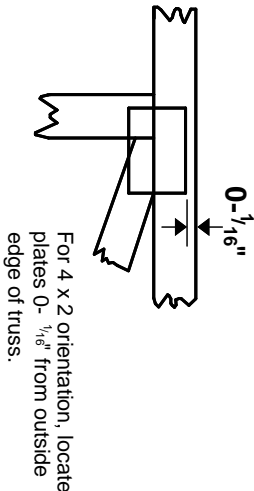
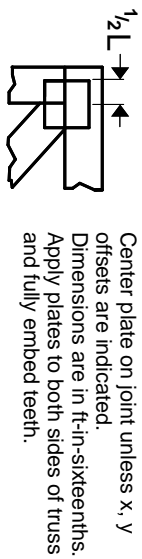
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# Symbols

## PLATE LOCATION AND ORIENTATION



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

## PLATE SIZE

4 X 4

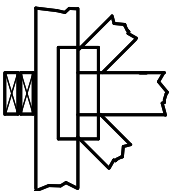
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING

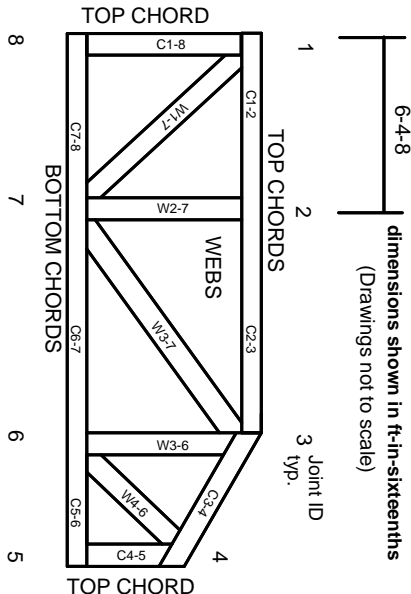


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-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 1 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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