

RE: FNC109-F
Chesapeake-6260D:Lot109 FarmNeillsCreek

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Project Name: FNC109-F
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: N/A Wind Speed: N/A mph
Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 16 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	I68496453	F01G	9/27/2024
2	I68496454	F02	9/27/2024
3	I68496455	F03	9/27/2024
4	I68496456	F03GR	9/27/2024
5	I68496457	F04	9/27/2024
6	I68496458	F05G	9/27/2024
7	I68496459	F06	9/27/2024
8	I68496460	F07G	9/27/2024
9	I68496461	F08G	9/27/2024
10	I68496462	F09	9/27/2024
11	I68496463	F11	9/27/2024
12	I68496464	F12G	9/27/2024
13	I68496465	F13	9/27/2024
14	I68496466	F14	9/27/2024
15	I68496467	F15	9/27/2024
16	I68496468	F16G	9/27/2024

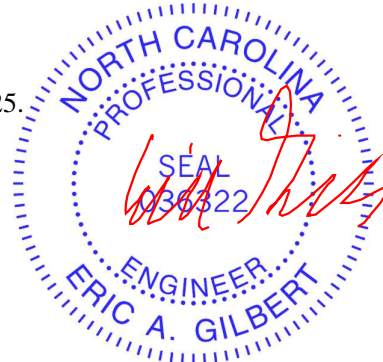
The truss drawing(s) referenced above have been prepared by
Truss Engineering Co. under my direct supervision
based on the parameters provided by Builders FirstSource (Apex,NC).

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.



September 27, 2024

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeillsCreek
FNC109-F	F01G	GABLE	1	1	I68496453
					Job Reference (optional)

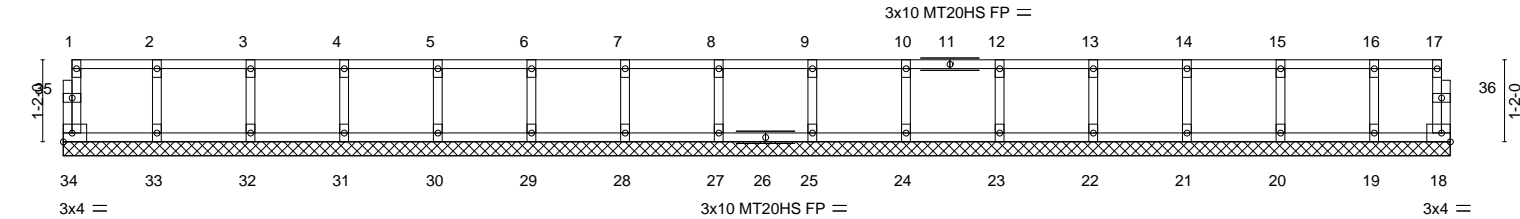
Builders FirstSource (Apex, NC),Apex, NC - 27523,

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:19:17 2024 Page 1
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8

0-1-8

Scale = 1:32.8



	1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	19-9-0		
	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-1-0		
LOADING (psf)			SPACING-	2-0-0		CSI.		DEFL.		in	(loc)	l/defl	L/d	PLATES		GRIP	
TCLL	40.0		Plate Grip DOL	1.00		TC	0.09	Vert(LL)	n/a	-	-	n/a	999	MT20	244/190		
TCDL	10.0		Lumber DOL	1.00		BC	0.01	Vert(CT)	n/a	-	-	n/a	999	MT20HS	187/143		
BCLL	0.0		Rep Stress Incr	NO		WB	0.03	Horz(CT)	0.00	18	-	n/a	n/a				
BCDL	5.0		Code IRC2015/TPI2014			Matrix-R								Weight: 82 lb		FT = 20%F, 11%E	

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 19-9-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19

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

NOTES-
1) All plates are MT20 plates unless otherwise indicated.
2) All plates are 1.5x3 MT20 unless otherwise indicated.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.



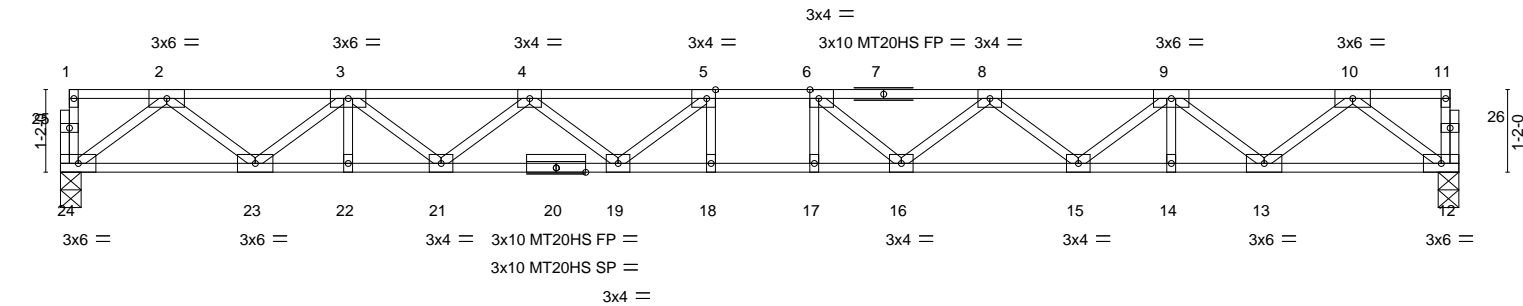
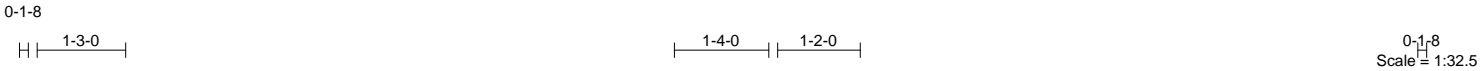
September 27,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeillsCreek
FNC109-F	F02	FLOOR	2	1	168496454
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:19:18 2024 Page 1
ID:hazSNSvRlgjAW5liYcPhTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



9-3-0	9-11-0, 10-7-0	19-9-0
9-3-0	0-8-0 0-8-0	9-2-0
Plate Offsets (X,Y)--	[5:0-1-8,Edge], [6:0-1-8,Edge]	

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.63	Vert(LL)	-0.36 17-18	>645	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 1.00	Vert(CT)	-0.50 17-18	>469	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.08 12	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 101 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except*
12-20: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 24=0-3-8, 12=0-3-8
Max Grav 24=852(LC 1), 12=852(LC 1)

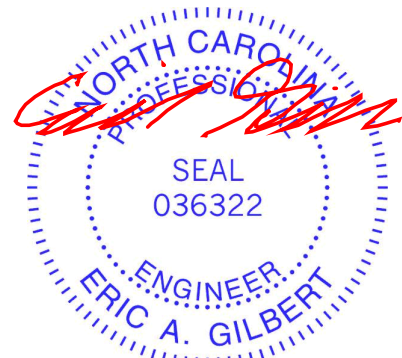
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1840/0, 3-4=-3127/0, 4-5=-3801/0, 5-6=-3998/0, 6-8=-3803/0, 8-9=-3126/0,
9-10=-1840/0
BOT CHORD 23-24=0/1075, 22-23=0/2615, 21-22=0/2615, 19-21=0/3592, 18-19=0/3998, 17-18=0/3998,
16-17=0/3998, 15-16=0/3589, 14-15=0/2617, 13-14=0/2617, 12-13=0/1074
WEBS 2-24=-1346/0, 2-23=0/996, 3-23=-990/0, 3-21=0/654, 4-21=-604/0, 4-19=0/385,
5-19=-478/86, 10-12=-1346/0, 10-13=0/996, 9-13=-992/0, 9-15=0/650, 8-15=-603/0,
8-16=0/393, 6-16=-481/86

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) The Fabrication Tolerance at joint 20 = 11%
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 1-4-12 oc bracing: 19-21.



September 27, 2024

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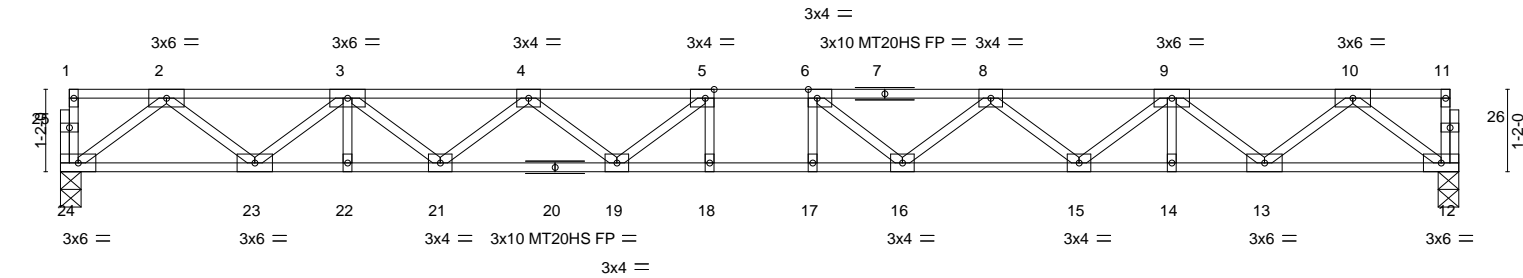
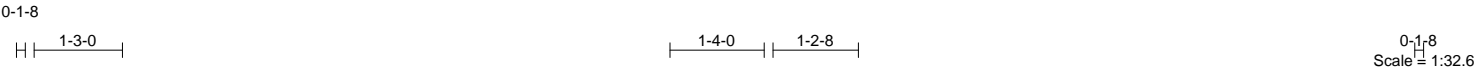
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeillsCreek
FNC109-F	F03	FLOOR	8	1	I68496455
					Job Reference (optional)

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:19:18 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



	9-3-0	9-11-0,10-7-0	19-9-8
	9-3-0	0-8-0 0-8-0	9-2-8
Plate Offsets (X,Y)--	[5:0-1-8,Edge], [6:0-1-8,Edge]		

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.62	Vert(LL)	-0.36 17-18	>650	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.83	Vert(CT)	-0.50 17-18	>473	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.08 12	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S					Weight: 101 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS.

(size) 24=0-3-8, 12=0-3-8
Max Grav 24=854(LC 1), 12=854(LC 1)

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

TOP CHORD 2-3=-1844/0, 3-4=-3136/0, 4-5=-3815/0, 5-6=-4016/0, 6-8=-3816/0, 8-9=-3136/0, 9-10=-1844/0
BOT CHORD 23-24=0/1077, 22-23=0/2623, 21-22=0/2623, 19-21=0/3603, 18-19=0/4016, 17-18=0/4016, 16-17=0/4016, 15-16=0/3601, 14-15=0/2623, 13-14=0/2623, 12-13=0/1077
WEBS 2-24=-1349/0, 2-23=0/999, 3-23=-995/0, 3-21=0/654, 4-21=-608/0, 4-19=0/388, 5-19=-483/85, 10-12=-1349/0, 10-13=0/999, 9-13=-995/0, 9-15=0/654, 8-15=-606/0, 8-16=0/392, 6-16=-484/85

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeillsCreek
FNC109-F	F03GR	FLOOR	1	1	I68496456
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:19:19 2024 Page 1
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

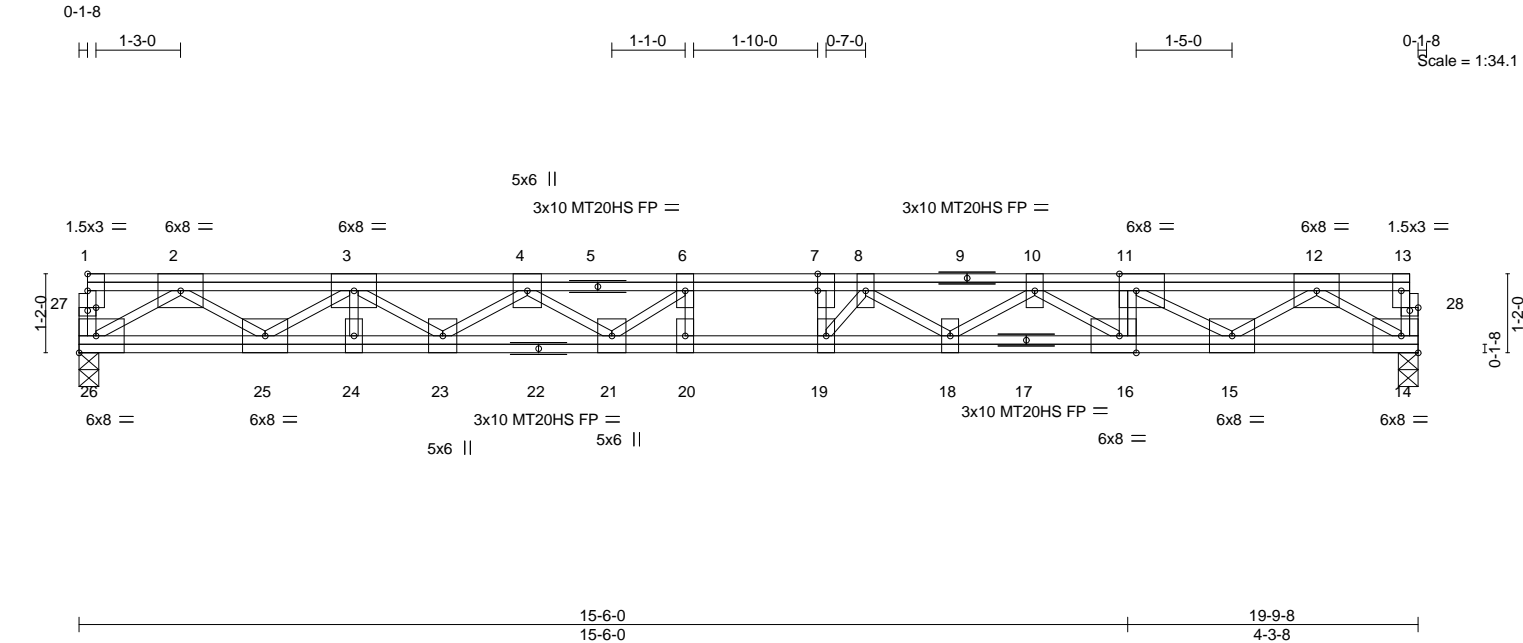


Plate Offsets (X, Y)--		[7:0-3-0,0-0-0], [11:0-3-0,Edge], [16:0-3-0,Edge], [27:0-1-8,0-0-8], [28:0-1-8,0-0-8]	
LOADING (psf)	SPACING-	1-7-3	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.29
TCDL 10.0	Lumber DOL	1.00	BC 0.53
BCLL 0.0	Rep Stress Incr	NO	WB 1.00
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.31 19 >751 480
		Vert(CT)	-0.43 19 >546 360
		Horz(CT)	0.04 14 n/a n/a
		PLATES	GRIP
		MT20	244/190
		MT20HS	187/143
		Weight: 154 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD	2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS(flat)
BOT CHORD	2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS(flat)
WEBS	2x4 SP No.3(flat)
	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 26=0-3-8, 14=0-3-8
Max Grav 26=1057(LC 1), 14=1611(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2575/0, 3-4=-4594/0, 4-6=-5935/0, 6-7=-6561/0, 7-8=-6561/0, 8-10=-6802/0, 10-11=-6276/0, 11-12=-4097/0
BOT CHORD 25-26=0/1538, 24-25=0/3736, 23-24=0/3736, 21-23=0/5365, 20-21=0/6561, 19-20=0/6561, 18-19=0/6797, 16-18=0/6666, 15-16=0/6276, 14-15=0/2412
WEBS 11-16=0/255, 6-20=-77/328, 7-19=-204/378, 2-26=-1794/0, 2-25=0/1289, 3-25=-1415/0, 3-23=0/1046, 4-23=-957/0, 4-21=0/847, 6-21=-1052/0, 10-16=-469/0, 10-18=-32/365, 8-18=-367/283, 8-19=-760/345, 12-14=-2813/0, 12-15=0/2094, 11-15=-2535/0

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x6 MT20 unless otherwise indicated.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 5) CAUTION, Do not erect truss backwards.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 960 lb down at 15-6-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 14-26=-8, 1-13=-80
Concentrated Loads (lb)
Vert: 11=-960(F)



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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeillsCreek
FNC109-F	F04	FLOOR	1	1	168496457

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ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

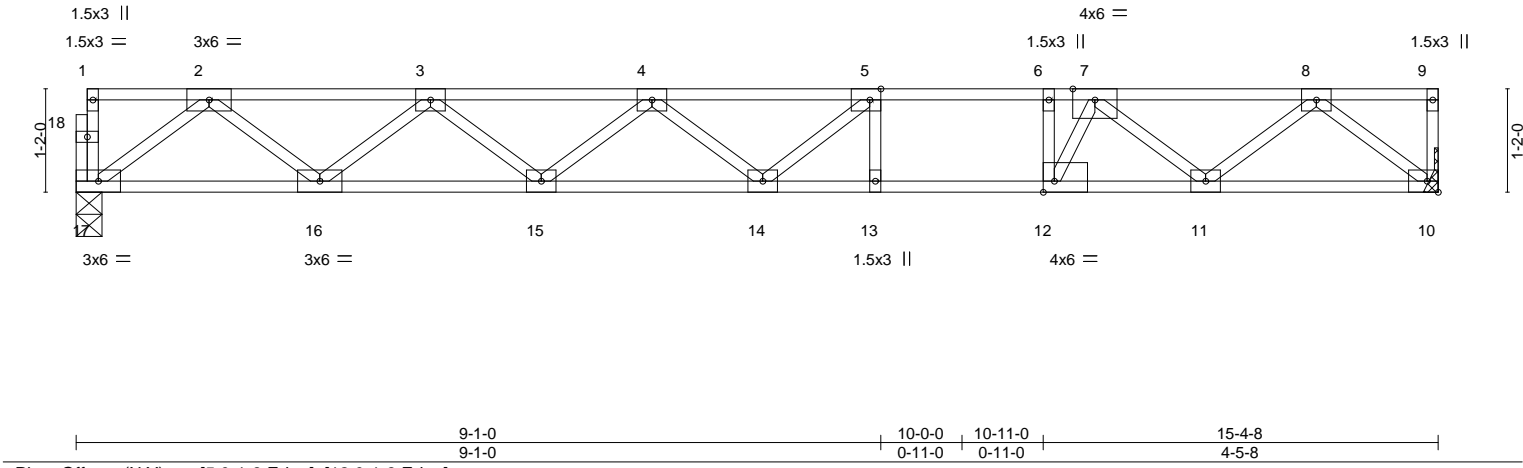
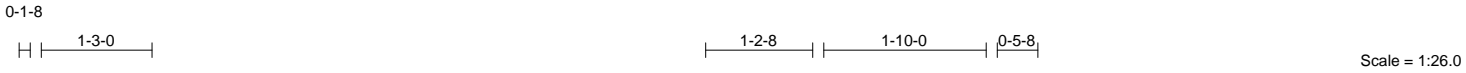


Plate Offsets (X,Y)--		[5:0-1-8,Edge], [12:0-1-8,Edge]					
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 40.0		Plate Grip DOL 1.00		TC 0.63		Vert(LL) -0.23 13-14 >802 480	MT20 244/190
TCDL 10.0		Lumber DOL 1.00		BC 0.73		Vert(CT) -0.31 13-14 >585 360	
BCLL 0.0		Rep Stress Incr YES		WB 0.49		Horz(CT) 0.04 10 n/a n/a	
BCDL 5.0		Code IRC2015/TPI2014		Matrix-S			Weight: 77 lb FT = 20%F, 11%E

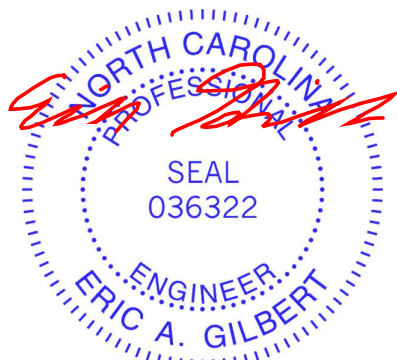
LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 17=0-3-8, 10=Mechanical
Max Grav 17=829(LC 1), 10=835(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1707/0, 3-4=-2694/0, 4-5=-2989/0, 5-6=-2756/0, 6-7=-2756/0, 7-8=-1645/0
BOT CHORD 16-17=0/1033, 15-16=0/2343, 14-15=0/3034, 13-14=0/2756, 12-13=0/2756, 11-12=0/2384, 10-11=0/985
WEBS 5-13=-281/0, 6-12=-659/0, 2-17=-1294/0, 2-16=0/877, 3-16=-828/0, 3-15=0/457, 4-15=-443/0, 5-14=-115/430, 8-10=-1257/0, 8-11=0/860, 7-11=-961/0, 7-12=0/1031

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



September 27, 2024

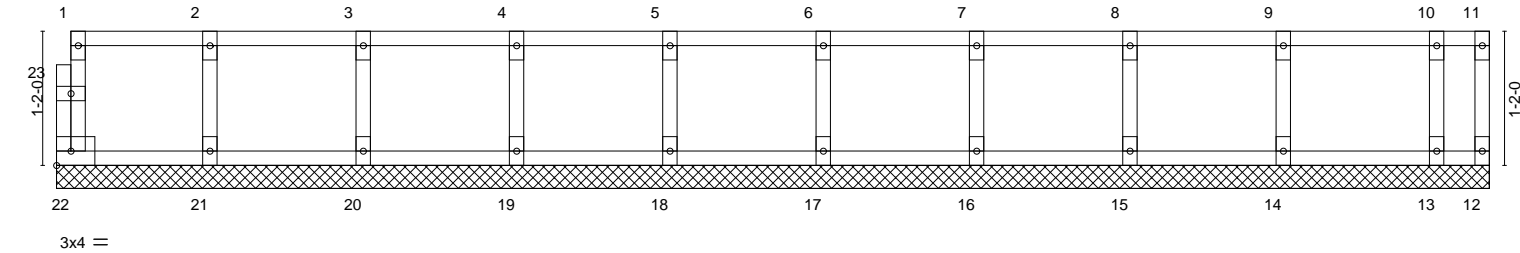
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeillsCreek
FNC109-F	F05G	GABLE	1	1	I68496458
					Job Reference (optional)

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:19:20 2024 Page 1
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0.1:8

Scale = 1:20.0



1-4-0		2-8-0		4-0-0		5-4-0		6-8-0		8-0-0		9-4-0		10-8-0		12-0-0		12-5-8	
1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		0-5-8	
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL 40.0		Plate Grip DOL		1.00		TC 0.09		Vert(LL)		n/a		n/a		999		MT20		244/190	
TCDL 10.0		Lumber DOL		1.00		BC 0.02		Vert(CT)		n/a		n/a		999					
BCLL 0.0		Rep Stress Incr		NO		WB 0.03		Horz(CT)		0.00		12		n/a					
BCDL 5.0		Code IRC2015/TPI2014				Matrix-R										Weight: 53 lb		FT = 20%F, 11%E	

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

REACTIONS. All bearings 12-5-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.



September 27,2024

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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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeillsCreek
FNC109-F	F06	FLOOR	10	1	168496459
					Job Reference (optional)

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:19:20 2024 Page 1
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?f

0-1-8

1-3-0

1-8-8

0-1-8
Scale = 1:20.9

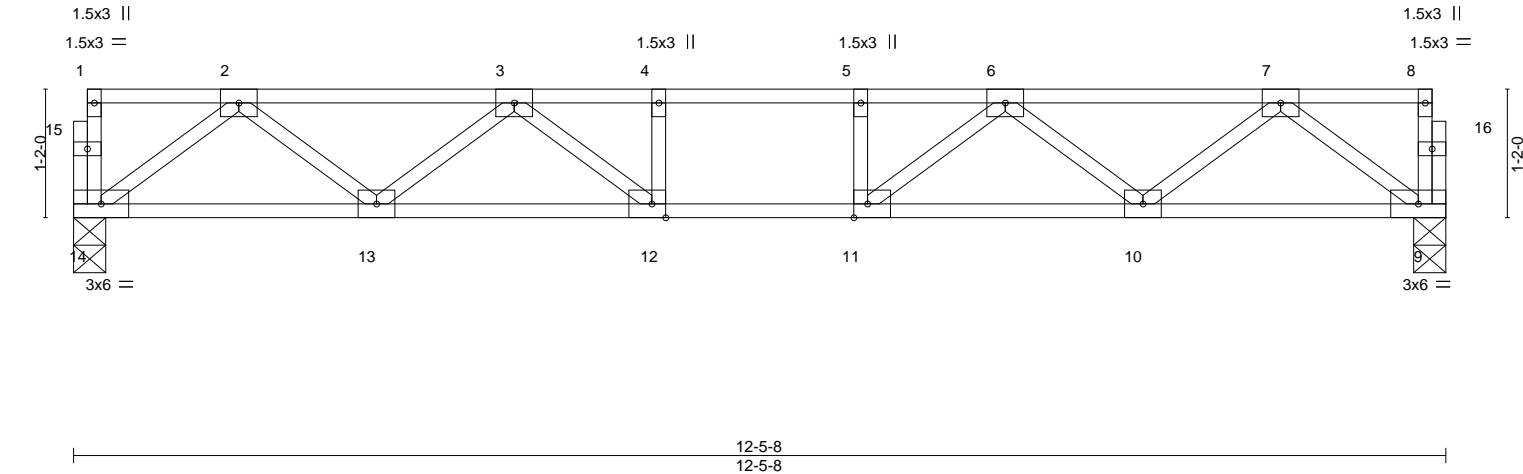


Plate Offsets (X,Y)--		[11:0-1-8,Edge], [12:0-1-8,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0		Plate Grip DOL 1.00		TC 0.40		Vert(LL)	-0.09 12-13	>999	480	MT20	244/190
TCDL 10.0		Lumber DOL 1.00		BC 0.58		Vert(CT)	-0.12 12-13	>999	360		
BCLL 0.0		Rep Stress Incr YES		WB 0.29		Horz(CT)	0.03 9	n/a	n/a		
BCDL 5.0		Code IRC2015/TPI2014		Matrix-S						Weight: 63 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 14=0-3-8, 9=0-3-8
Max Grav 14=665(LC 1), 9=665(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1294/0, 3-4=-1934/0, 4-5=-1934/0, 5-6=-1934/0, 6-7=-1294/0
BOT CHORD 13-14=0/820, 12-13=0/1732, 11-12=0/1934, 10-11=0/1732, 9-10=0/820
WEBS 7-9=-1026/0, 2-14=-1026/0, 7-10=0/616, 2-13=0/616, 6-10=-571/0, 3-13=-571/0, 6-11=0/453, 3-12=0/453

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.



September 27, 2024

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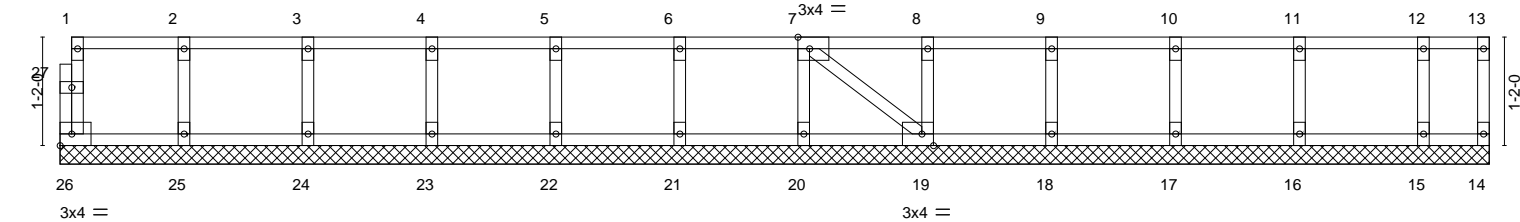
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeillsCreek
FNC109-F	F07G	GABLE	1	1	I68496460
					Job Reference (optional)

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:19:20 2024 Page 1
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8

Scale = 1:24.8



1-4-0 2-8-0 4-0-0 5-4-0 6-8-0 8-0-0 9-4-0 10-8-0 12-0-0 13-4-0 14-8-0 15-4-8												
1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-0 0-8-8												
Plate Offsets (X,Y)-- [7:0-1-8,Edge], [19:0-1-8,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 67 lb	FT = 20%F, 11%E

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

REACTIONS. All bearings 15-4-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

- NOTES-
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.



September 27,2024

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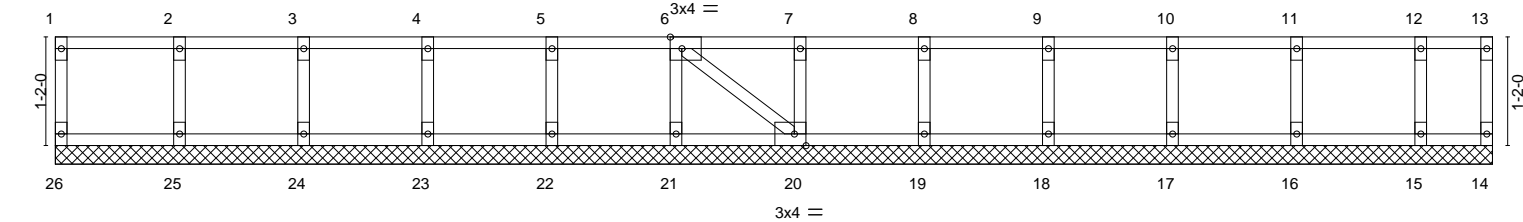
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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeillsCreek
FNC109-F	F08G	GABLE	1	1	168496461
					Job Reference (optional)

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:19:21 2024 Page 1
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Scale = 1:24.7



1-4-0		2-8-0		4-0-0		5-4-0		6-8-0		8-0-0		9-4-0		10-8-0		12-0-0		13-4-0		14-8-0		15-5-4	
1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		0-9-4	
Plate Offsets (X,Y)-- [6:0-1-8,Edge], [20:0-1-8,Edge]																							
LOADING (psf)		SPACING- 2-0-0				CSI.				DEFL. in (loc) l/defl L/d				PLATES				GRIP					
TCLL 40.0		Plate Grip DOL 1.00				TC 0.10				Vert(LL) n/a - n/a 999				MT20				244/190					
TCDL 10.0		Lumber DOL 1.00				BC 0.01				Vert(CT) n/a - n/a 999													
BCLL 0.0		Rep Stress Incr NO				WB 0.03				Horz(CT) -0.00 20 n/a n/a													
BCDL 5.0		Code IRC2015/TPI2014				Matrix-S												Weight: 66 lb FT = 20%F, 11%E					

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

REACTIONS. All bearings 15-5-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

- NOTES-
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



September 27,2024

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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeillsCreek
FNC109-F	F09	FLOOR	10	1	I68496462
					Job Reference (optional)

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:19:21 2024 Page 1
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8

1-3-0

1-11-4

Scale = 1:25.4

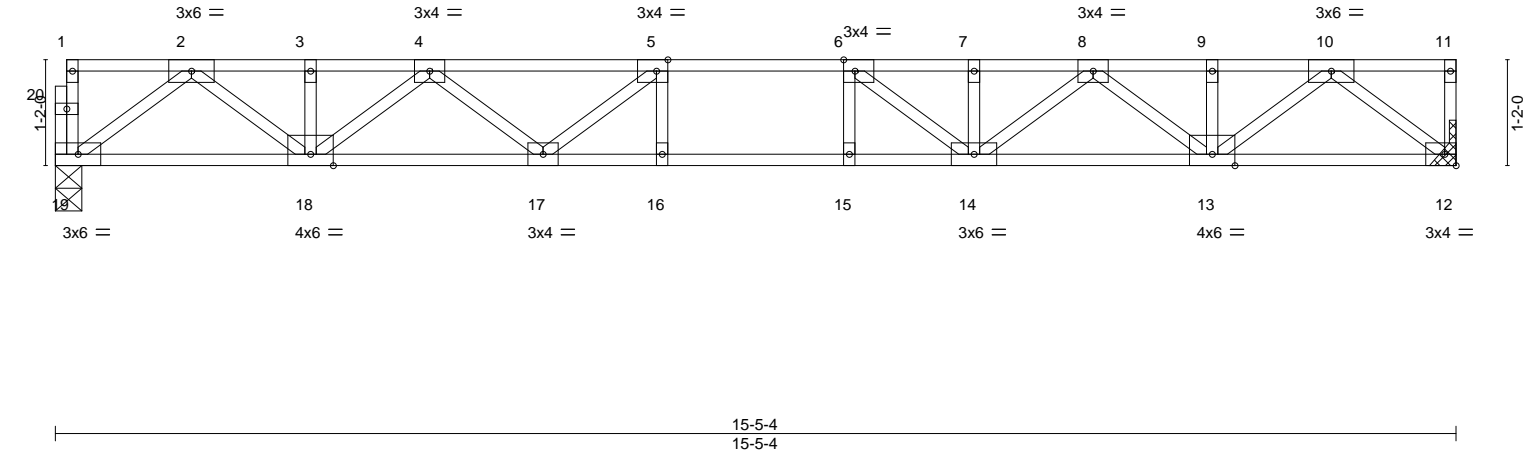


Plate Offsets (X,Y)--		[5:0-1-8,Edge], [6:0-1-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.54
TCDL 10.0	Lumber DOL	1.00	BC 0.77
BCLL 0.0	Rep Stress Incr	YES	WB 0.48
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.17 15-16 >999 480
		Vert(CT)	-0.24 15-16 >761 360
		Horz(CT)	0.05 12 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 79 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 19=0-3-8, 12=Mechanical
Max Grav 19=833(LC 1), 12=839(LC 1)

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

TOP CHORD 2-3=-1784/0, 3-4=-1784/0, 4-5=-2728/0, 5-6=-3037/0, 6-7=-2770/0, 7-8=-2770/0, 8-9=-1759/0, 9-10=-1759/0

BOT CHORD 18-19=0/1016, 17-18=0/2404, 16-17=0/3037, 15-16=0/3037, 14-15=0/3037, 13-14=0/2352, 12-13=0/974

WEBS 10-12=-1244/0, 2-19=-1270/0, 10-13=0/1002, 2-18=0/981, 8-13=-757/0, 4-18=-792/0, 8-14=0/533, 4-17=0/476, 6-14=-626/40, 5-17=-573/0

NOTES-

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

2) All plates are 1.5x3 MT20 unless otherwise indicated.

3) Refer to girder(s) for truss to truss connections.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



September 27,2024

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:19:22 2024 Page 1
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3u1TXbGKWRcDoi7J4zJC?f

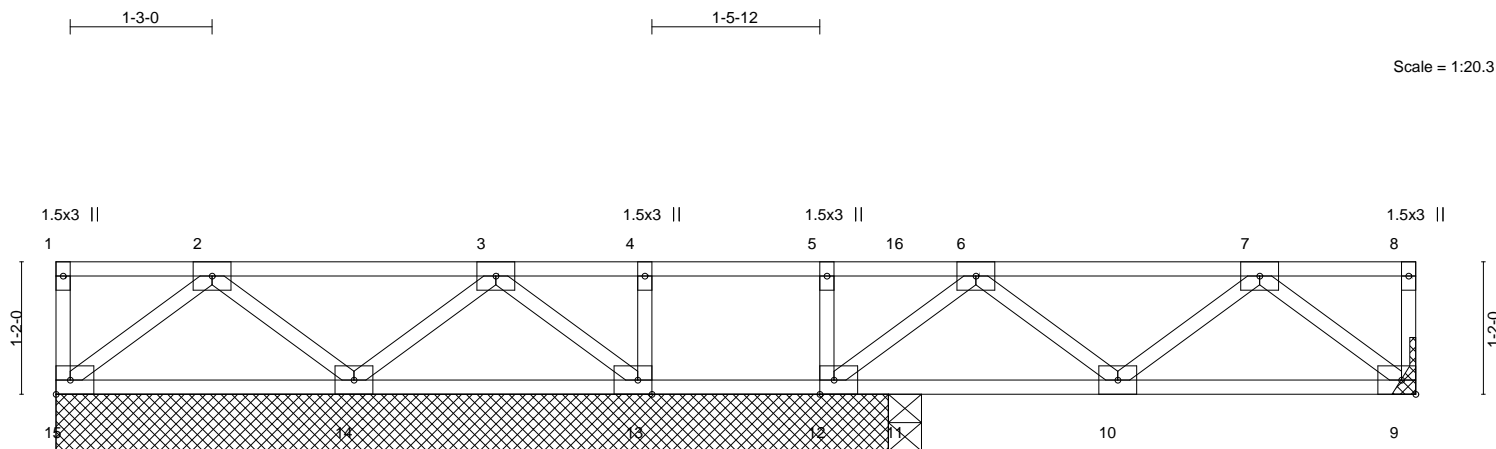
Builders FirstSource (Apex, NC).

Apex, NC - 27523.

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:19:22 2024 Page 1

ID:hazSNSvRIqjAW5liYCphTxvvdPZ-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrcDoj7J4zJC?f

Scale = 1:20.3



										7-7-8				11-11-12				
										7-7-8				4-4-4				
Plate Offsets (X,Y)--										[12:0-1-8,Edge], [13:0-1-8,Edge]								
LOADING (psf)		SPACING-		2-0-0		CSI.				DEFL.		in (loc)		l/defl		L/d		
TCLL	40.0	Plate Grip DOL		1.00		TC	0.26			Vert(LL)	-0.00	10	>999		480		PLATES	GRIP
TCDL	10.0	Lumber DOL		1.00		BC	0.11			Vert(CT)	-0.01	9-10	>999		360		MT20	244/190
BCLL	0.0	Rep Stress Incr		YES		WB	0.10			Horz(CT)	0.00	9	n/a		n/a			
BCDL	5.0	Code IRC2015/TPI2014				Matrix-S										Weight: 60 lb		FT = 20%F, 11%E

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

REACTIONS. All bearings 7-4-0 except (jt=length) 9=Mechanical, 11=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 15, 11 except 9=256(LC 4), 14=283(LC 3), 12=382(LC 1), 13=272(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 6-7=-253/0
 BOT CHORD 9-10=0/267
 WEBS 7-9=-341/0. 6-12=-407/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Gable studs spaced at 1-4-0 oc.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
- Strongbacks to be attached to walls at their outer ends or restrained by other means.



September 27, 2024

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Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeillsCreek
FNC109-F	F12G	GABLE	1	1	I68496464
					Job Reference (optional)

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

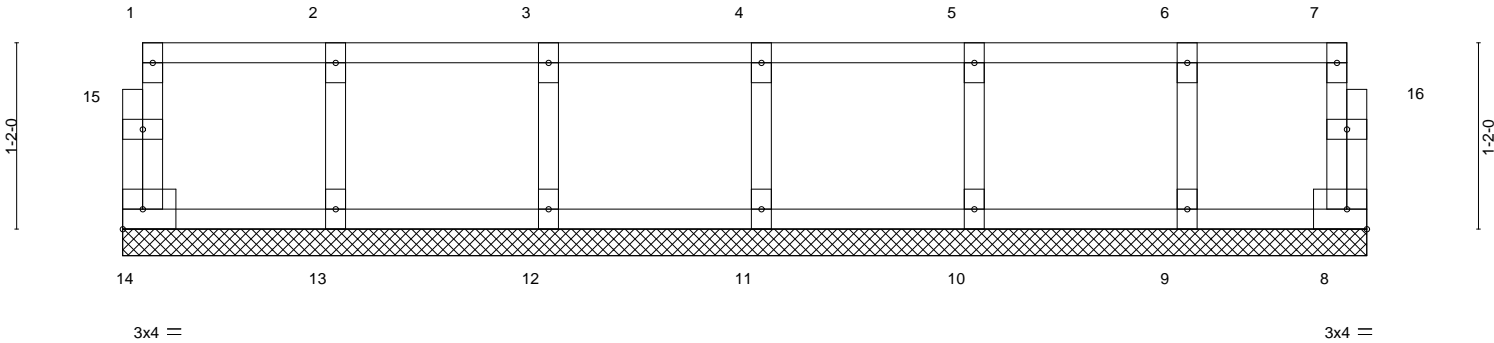
8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:19:22 2024 Page 1

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f

0'-1'-8"

0'-1'-8"

Scale = 1:14.4



1-4-0		2-8-0		4-0-0		5-4-0		6-8-0		7-9-8	
1-4-0		1-4-0		1-4-0		1-4-0		1-4-0		1-1-8	
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL 40.0		Plate Grip DOL 1.00		TC 0.09		Vert(LL) n/a - n/a 999		MT20		244/190	
TCDL 10.0		Lumber DOL 1.00		BC 0.01		Vert(CT) n/a - n/a 999					
BCLL 0.0		Rep Stress Incr NO		WB 0.03		Horz(CT) 0.00 8 n/a n/a					
BCDL 5.0		Code IRC2015/TPI2014		Matrix-R				Weight: 35 lb		FT = 20%F, 11%E	

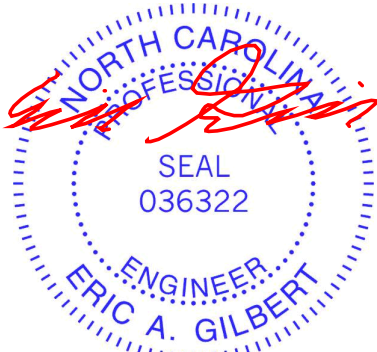
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 7-9-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.



September 27, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompnents.com)

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeillsCreek
FNC109-F	F13	FLOOR	3	1	I68496465
					Job Reference (optional)

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:19:22 2024 Page 1
ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

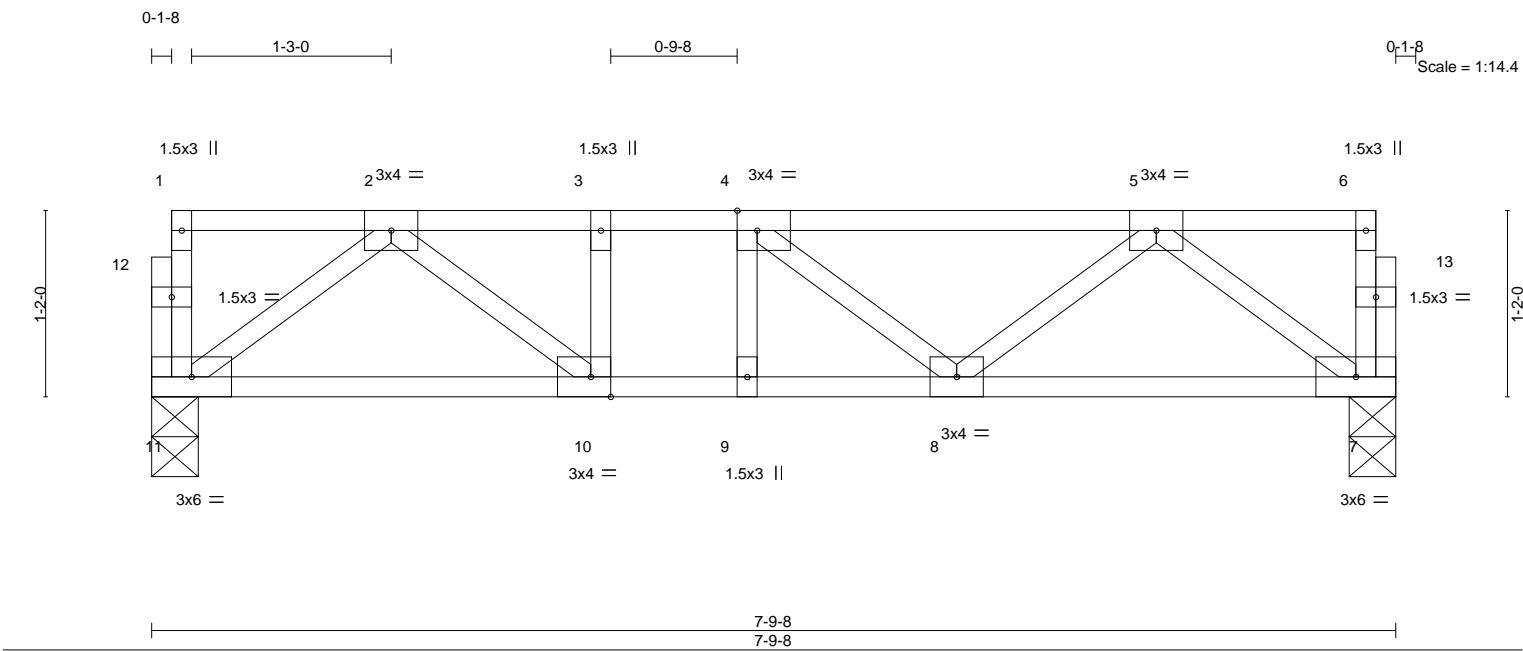


Plate Offsets (X,Y)--		[4:0-1-8,Edge], [10:0-1-8,Edge]			
LOADING (psf)	SPACING-2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.32	Vert(LL) -0.03 8-9 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.42	Vert(CT) -0.03 8-9 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.01 7 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 42 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 11=0-3-8, 7=0-3-8
Max Grav 11=409(LC 1), 7=409(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-738/0, 3-4=-738/0, 4-5=-647/0
BOT CHORD 10-11=0/461, 9-10=0/738, 8-9=0/738, 7-8=0/493
WEBS 5-7=-616/0, 2-11=-575/0, 2-10=0/366

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.



September 27,2024

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeillsCreek
FNC109-F	F14	FLOOR	11	1	168496466
					Job Reference (optional)

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:19:23 2024 Page 1

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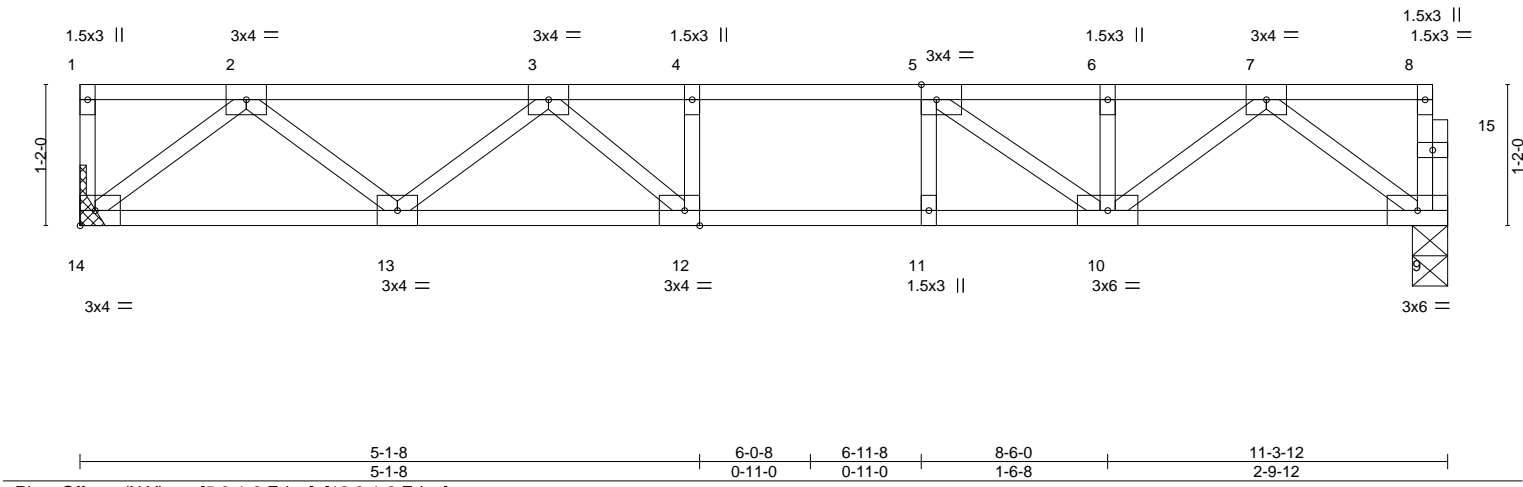
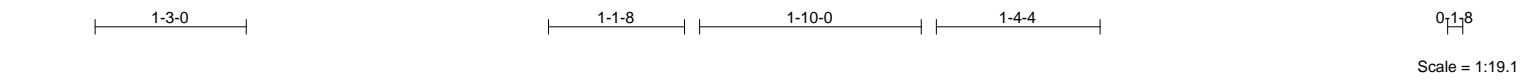


Plate Offsets (X,Y)--		[5:0-1-8,Edge], [12:0-1-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.47
TCDL 10.0	Lumber DOL	1.00	BC 0.63
BCLL 0.0	Rep Stress Incr	YES	WB 0.29
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.09 12-13	>999	480
Vert(CT)	-0.11 12-13	>999	360
Horz(CT)	0.02 9	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 57 lb		FT = 20%F, 11%E	

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

REACTIONS. (size) 9=0-3-8, 14=Mechanical
Max Grav 9=606(LC 1), 14=612(LC 1)

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

TOP CHORD 2-3=-1129/0, 3-4=-1592/0, 4-5=-1592/0, 5-6=-1199/0, 6-7=-1199/0

BOT CHORD 13-14=0/715, 12-13=0/1498, 11-12=0/1592, 10-11=0/1592, 9-10=0/715

WEBS 2-14=-913/0, 2-13=0/539, 3-13=-480/0, 3-12=-42/336, 7-9=-893/0, 7-10=0/618, 5-10=-589/0

NOTES-

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

2) Refer to girder(s) for truss to truss connections.

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) CAUTION, Do not erect truss backwards.



September 27,2024

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeillsCreek
FNC109-F	F15	FLOOR	8	1	168496467
					Job Reference (optional)

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

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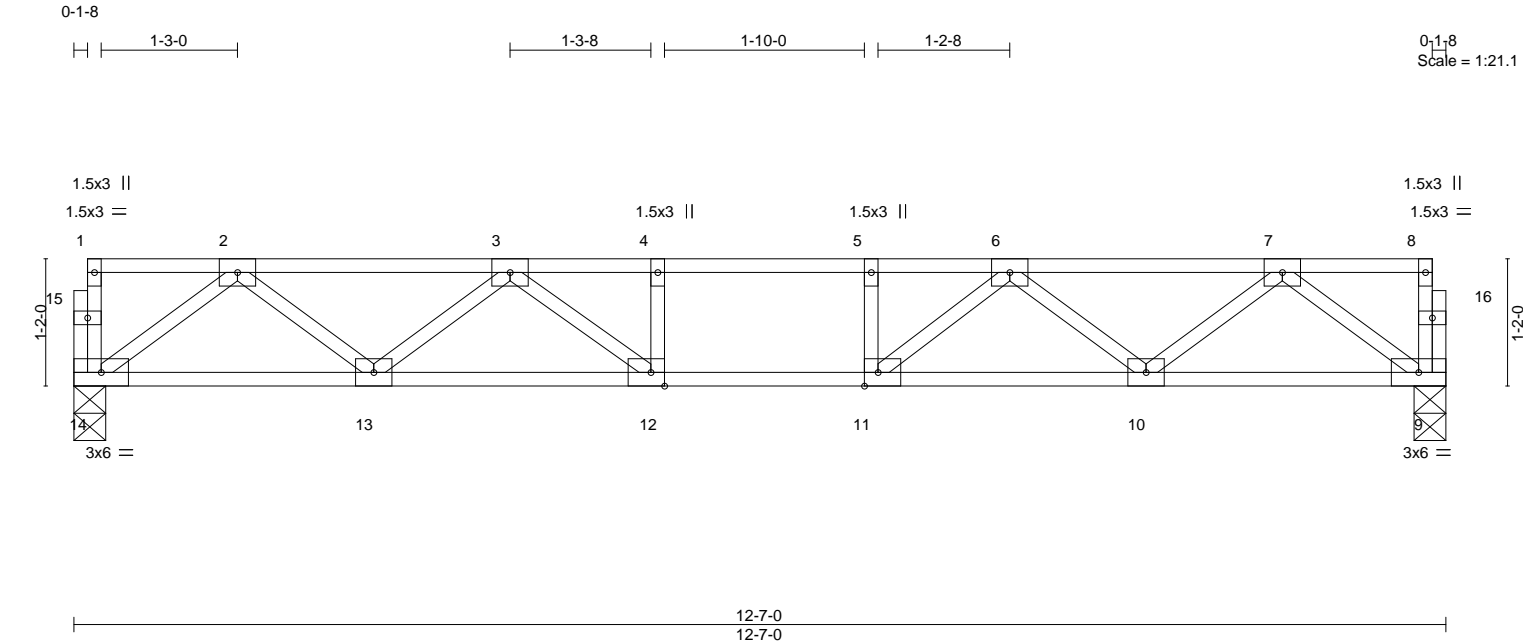


Plate Offsets (X,Y)--	[11:0-1-8,Edge], [12:0-1-8,Edge]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.45	Vert(LL)	-0.10 12-13	>999	480
TCDL 10.0	Lumber DOL	1.00	BC 0.61	Vert(CT)	-0.13 12-13	>999	360
BCLL 0.0	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.03 9	n/a	n/a
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S				
					PLATES	GRIP	
					MT20	244/190	
					Weight: 63 lb	FT = 20%F, 11%E	

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

REACTIONS.	(size) 14=0-3-8, 9=0-3-8
	Max Grav 14=672(LC 1), 9=672(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1312/0, 3-4=-1972/0, 4-5=-1972/0, 5-6=-1972/0, 6-7=-1310/0
BOT CHORD	13-14=0/829, 12-13=0/1757, 11-12=0/1972, 10-11=0/1757, 9-10=0/829
WEBS	2-14=-1038/0, 2-13=0/628, 3-13=-580/0, 3-12=0/470, 7-9=-1038/0, 7-10=0/626, 6-10=-582/0, 6-11=0/475

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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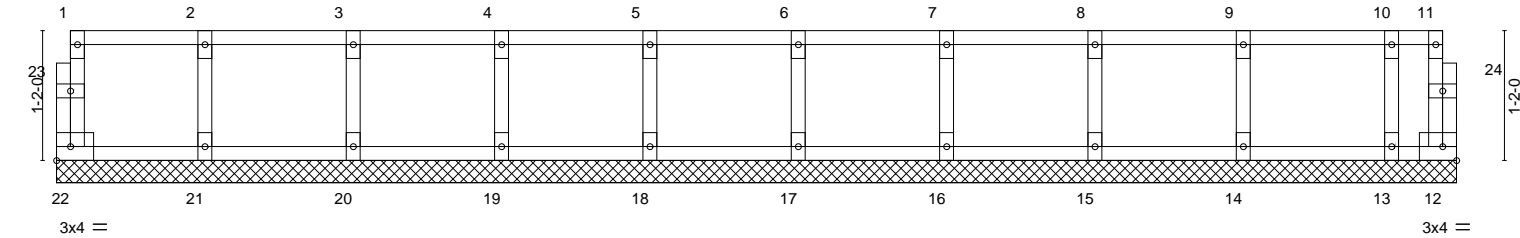
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260D:Lot109 FarmNeillsCreek
FNC109-F	F16G	GABLE	1	1	168496468
					Job Reference (optional)

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

8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 26 03:19:23 2024 Page 1
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01/801/8

Scale = 1:20.7



1-4-0		2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-7-0
1-4-0		1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-0
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP
TCLL	40.0	Plate Grip DOL	2-0-0 1.00	TC	0.09	in (loc)	l/defl	L/d	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(LL)	n/a -	n/a 999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Vert(CT)	n/a -	n/a 999		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R		Horz(CT)	0.00 12	n/a n/a		
									Weight: 54 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 12-7-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.



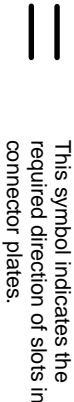
September 27,2024

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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

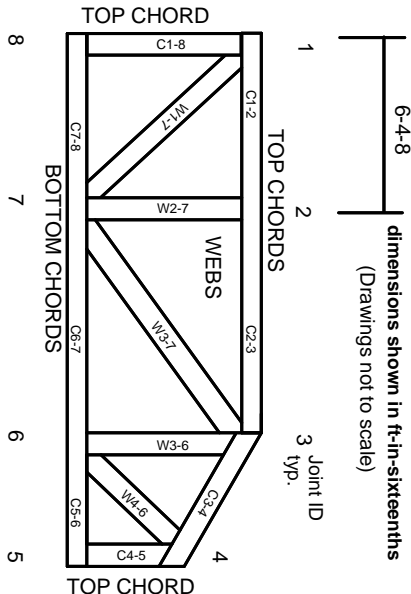


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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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MITek Engineering Reference Sheet: MII-7473 rev. 1/2/2023