

RE: FNC158-F

Chesapeake-6260A:Lot158 FarmNeilsCreek

Trenco 818 Soundside Rd Edenton, NC 27932

**Site Information:** 

Customer: Project Name: FNC158-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	170870638	F01G	1/20/2025
2	170870639	F02	1/20/2025
3	170870640	F03	1/20/2025
4	170870641	F03GR	1/20/2025
5	170870642	F04	1/20/2025
6	170870643	F05G	1/20/2025
7	170870644	F06	1/20/2025
8	170870645	F07G	1/20/2025
9	170870646	F08G	1/20/2025
10	170870647	F09	1/20/2025
11	170870648	F11	1/20/2025
12	170870649	F12G	1/20/2025
13	170870650	F13	1/20/2025
14	170870651	F14	1/20/2025
15	170870652	F15	1/20/2025
16	170870653	F16G	1/20/2025

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision

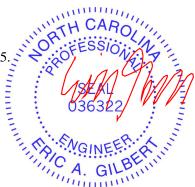
based on the parameters provided by Builders FirstSource (Apex,NC).

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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



January 20, 2025

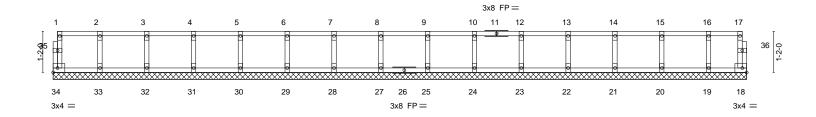
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260A:Lot158 FarmNeilsCreek
FNC158-F	F01G	GABLE	1	1	170870638
11101001	1 010	O'NOEE			Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:10 2025 Page 1 ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-11-8

0-11-8

Scale = 1:32.8



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

LUMBER-BRACING-

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

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

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-

**OTHERS** 

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.

2x4 SP No.3(flat)

- 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.





818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260A:Lot158 FarmNeilsCreek
FNC158-F	F02	FLOOR	2	1	17087063
110130-1	1 02	1 EOOK	_		Job Reference (optional)

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:11 2025 Page 1 ID:hazSNSvRIgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 5-5-9 oc purlins,

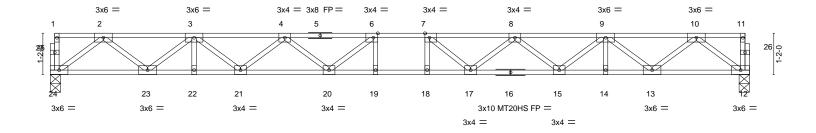
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.





0-1-8 Scale = 1:32.5



-		9-3-(	)			0-8-0 0-8-0			9-2-0		
Plate Offse	ets (X,Y)	[6:0-1-8,Edge], [7:0-1-8,E	idge]								
LOADING	· /	SPACING-	1-7-3	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.36 18-19	>654	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.49 18-19	>476	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/TF	PI2014	Matrix	k-S					Weight: 101 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 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.

2-3=-1840/0, 3-4=-3127/0, 4-6=-3802/0, 6-7=-3998/0, 7-8=-3803/0, 8-9=-3126/0, TOP CHORD

9-10=-1840/0

BOT CHORD  $23-24=0/1074,\ 22-23=0/2616,\ 21-22=0/2616,\ 20-21=0/3591,\ 19-20=0/3998,\ 18-19=0/3998,\ 18-1$ 

17-18=0/3998, 15-17=0/3589, 14-15=0/2617, 13-14=0/2617, 12-13=0/1074 2-24=-1346/0, 2-23=0/996, 3-23=-992/0, 3-21=0/651, 4-21=-605/0, 4-20=0/385,

6-20=-478/87, 10-12=-1346/0, 10-13=0/996, 9-13=-992/0, 9-15=0/650, 8-15=-603/0,

8-17=0/393, 7-17=-480/86

### NOTES-

WFBS

- 1) 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.
- 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.





Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260A:Lot158 FarmNeilsCreek
FNC158-F	F03	FLOOR	R	1	17087064
110130-1	1 03	1 EOOK			Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:11 2025 Page 1 ID:hazSNSvRIgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 5-5-7 oc purlins,

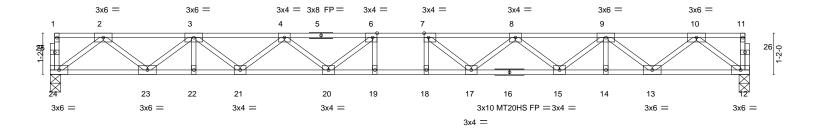
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8 H | 1-3-0

1-4-0 | 1-2-8

0-1-8 Scale = 1:32.6



<b>—</b>	9-3-0 9-3-0	9-11-01		19-9-8 9-2-8		
Plate Offsets (X,Y)-	- [6:0-1-8,Edge], [7:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.62 BC 0.83	<b>DEFL.</b> in (loc) Vert(LL) -0.36 18-19 Vert(CT) -0.50 18-19	l/defl L/d >650 480 >473 360	PLATES MT20 MT20HS	<b>GRIP</b> 244/190 187/143
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.48 Matrix-S	Horz(CT) 0.08 12	n/a n/a	Weight: 101 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEBS 2x4 SP No.3(flat)

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. 2-3=-1844/0, 3-4=-3136/0, 4-6=-3815/0, 6-7=-4016/0, 7-8=-3816/0, 8-9=-3136/0, TOP CHORD

9-10=-1844/0

BOT CHORD

 $23-24=0/1077,\ 22-23=0/2623,\ 21-22=0/2623,\ 20-21=0/3603,\ 19-20=0/4016,\ 18-19=0/4016,\ 18-1$ 17-18=0/4016, 15-17=0/3601, 14-15=0/2623, 13-14=0/2623, 12-13=0/1077

2-24=-1349/0, 2-23=0/999, 3-23=-995/0, 3-21=0/654, 4-21=-608/0, 4-20=0/388, 6-20=-483/85, 10-12=-1349/0, 10-13=0/999, 9-13=-995/0, 9-15=0/654, 8-15=-606/0,

8-17=0/392, 7-17=-484/85

### NOTES-

WFBS

- 1) 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.
- 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.

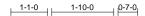




Job Truss Truss Type Qty Ply Chesapeake-6260A:Lot158 FarmNeilsCreek 170870641 FNC158-F F03GR **FLOOR** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:12 2025 Page 1

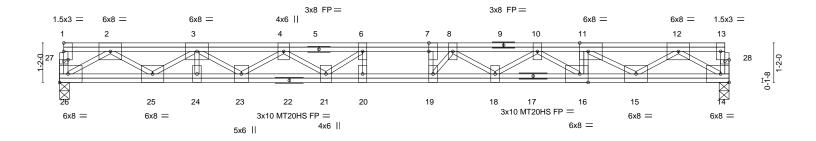
Builders FirstSource (Apex, NC), Apex, NC - 27523 ID:hazSNSvRIgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







0-1-8 Scale = 1:34.1



I			13-0-0		l l	13-3-0	I
Г	15-6-0						
Plate Off	fsets (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	3], [28:0-1-8,0-0-8]			
LOADIN	IG (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc)	I/defl L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.55	Vert(LL) -0.37 19	>632 480	MT20	244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.87	Vert(CT) -0.51 19	>460 360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr NO	WB 1.00	Horz(CT) 0.05 14	n/a n/a		
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 154 lb	FT = 20%F, 11%E

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.1(flat) \*Except\* BOT CHORD

22-26: 2x4 SP No.2(flat)

WEBS 2x4 SP No.3(flat) 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) 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.

2-3=-2575/0, 3-4=-4596/0, 4-6=-5929/0, 6-7=-6563/0, 7-8=-6563/0, 8-10=-6802/0, TOP CHORD

10-11=-6287/0, 11-12=-4096/0

BOT CHORD 25-26=0/1539, 24-25=0/3739, 23-24=0/3739, 21-23=0/5366, 20-21=0/6563, 19-20=0/6563,

18-19=0/6797, 16-18=0/6669, 15-16=0/6287, 14-15=0/2410

WEBS 11-16=0/257, 6-20=-81/350, 7-19=-198/357, 2-26=-1795/0, 2-25=0/1288, 3-25=-1419/0, 3-23=0/1046, 4-23=-955/0, 4-21=0/837, 6-21=-1067/0, 10-16=-460/0, 10-18=-33/362, 8-18=-370/289, 8-19=-750/344, 12-14=-2810/0, 12-15=0/2095, 11-15=-2549/0

- 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)



January 20,2025

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

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



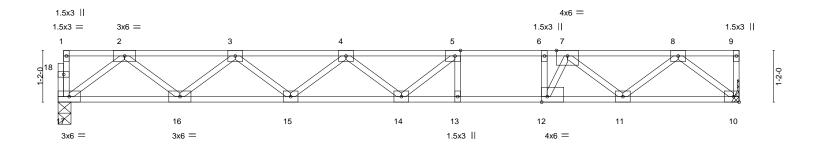
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260A:Lot158 FarmNeilsCreek
FNC158-F	F04	FLOOR	1	1	170870642
1140130-1	1 04	LOOK	'		Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:12 2025 Page 1 ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



1-2-8 Scale = 1:26.0

Structural wood sheathing directly applied or 2-2-0 oc purlins,



<del> </del>	9-1-0 9-1-0		10-0-0 10-11-0 0-11-0 0-11-0	15-4-8 4-5-8
Plate Offsets (X,Y)	[5:0-1-8,Edge], [12:0-1-8,Edge]			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.93 BC 0.76 WB 0.48 Matrix-S	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.24 13-14         >759         480           Vert(CT)         -0.33 13-14         >553         360           Horz(CT)         0.04         10         n/a         n/a	PLATES GRIP MT20 244/190  Weight: 77 lb FT = 20%F, 11%E

TOP CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS(flat)

except end verticals.

WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

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=-2693/0, 4-5=-2992/0, 5-6=-2754/0, 6-7=-2754/0, 7-8=-1644/0

BOT CHORD  $16-17=0/1034,\ 15-16=0/2343,\ 14-15=0/3033,\ 13-14=0/2754,\ 12-13=0/2754,\ 11-12=0/2389,$ 

10-11=0/984

 $5-13=-299/0,\ 6-12=-629/0,\ 2-17=-1294/0,\ 2-16=0/877,\ 3-16=-828/0,\ 3-15=0/456,$ **WEBS** 

4-15=-443/0, 5-14=-115/437, 8-10=-1256/0, 8-11=0/859, 7-11=-970/0, 7-12=0/1014

### 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.



January 20,2025

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

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

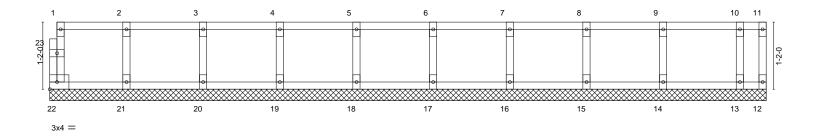


Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260A:Lot158 FarmNeilsCreek
FNC158-F	F05G	GABLE	1	1	170870643
1110130-1	1 030	GABLE	'	'	Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:13 2025 Page 1 ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0<sub>1</sub>1<sub>8</sub>

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) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.09 BC 0.02 WB 0.03 Matrix-R	DEFL. Vert(LL Vert(CT Horz(C	n/a -	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 53 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E

LUMBER-BRACING-

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

**OTHERS** 2x4 SP No.3(flat) 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 12-5-8.

(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.





Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260A:Lot158 FarmNeilsCreek
FNC158-F	F06	FLOOR	10	1	170870644
1140130-1	1 00	I LOOK	10		Job Reference (optional)

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

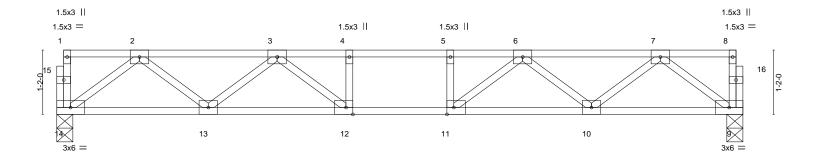
8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:13 2025 Page 1 ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

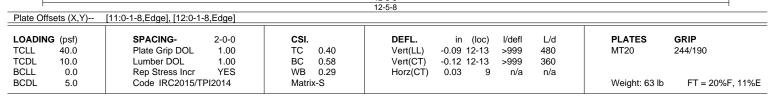
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.







**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) BOT CHORD

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 7-9=-1026/0, 2-14=-1026/0, 7-10=0/616, 2-13=0/616, 6-10=-571/0, 3-13=-571/0, WEBS

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.



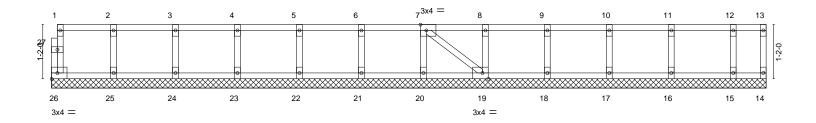


Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260A:Lot158 FarmNeilsCreek
		0.5.5			170870645
FNC158-F	F07G	GABLE	1	1	
					Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:14 2025 Page 1 ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0<sub>1</sub>1<sub>7</sub>8

Scale = 1:24.8



1	1-4-0	2-8-0 4-0-0	5-4-0	6-8-0	8-0-0	-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	-4-0	1-4-0	1-4-0	1-4-0	1-4-0 0-8-8
Plate Offs	sets (X,Y)	[7:0-1-8,Edge], [19:0-1-8	,Edge]							
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc) I/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/T	PI2014	Matrix-S					Weight: 67 lb	FT = 20%F, 11%E
LIMBED	_				BDACING					

LUMBER-BRACING-

2x4 SP No.2(flat) TOP CHORD TOP CHORD

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





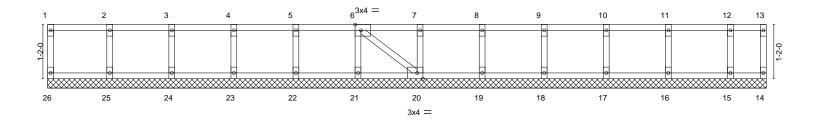
818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260A:Lot158 FarmNeilsCreek
FNC158-F	F08G	GABLE	1	1	170870646
1110130-1	1 000	GABLE	'	'	Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:14 2025 Page 1 ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 10-0-0 oc purlins,

Scale = 1:24.7



1	1-4-0	2-8-0 4-0-0	5-4-0	1 (	6-8-0	8-0-0	, 9	-4-0	1 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 0-9-4
Plate Off	sets (X,Y)	[6:0-1-8,Edge], [20:0-1-8	,Edge]										
LOADIN	G (psf)	SPACING-	2-0-0	CS	l <b>.</b>		DEFL.	in	(loc)	I/defI	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	ВС	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/TI	PI2014	Ma	rix-S							Weight: 66 lb	FT = 20%F, 11%E
LUMBER	•						DDACING						

TOP CHORD

LUMBER-BRACING-

2x4 SP No.2(flat) TOP CHORD BOT CHORD 2x4 SP No.2(flat)

except end verticals. **WEBS** 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **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.





818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260A:Lot158 FarmNeilsCreek
FNC158-F	F09	FLOOR	10	1	170870647
11401301	1 03	LEGGIK	10		Job Reference (optional)

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:15 2025 Page 1 ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 6-0-0 oc purlins,

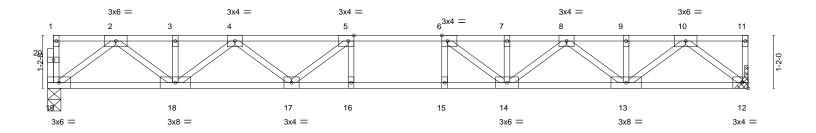
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



1-11-4

Scale = 1:25.4



			15-5-4	<u>'</u>
Plate Offsets (X,Y)	[5:0-1-8,Edge], [6:0-1-8,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.54	Vert(LL) -0.17 15-16 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.77	Vert(CT) -0.24 15-16 >761 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.05 12 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 79 lb FT = 20%F, 11%E

**BRACING-**

TOP CHORD

**BOT CHORD** 

15-5-4

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.3(flat)

> (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

WFBS 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.



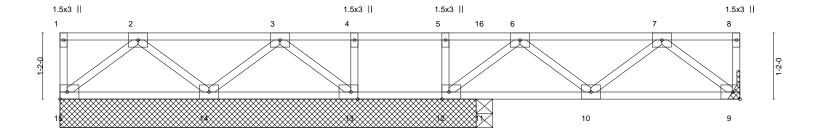


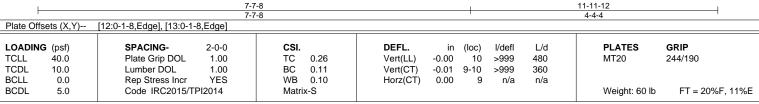
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260A:Lot158 FarmNeilsCreek	
FNC158-F	F11	GABLE	1	1		170870648
		07.522	·		Job Reference (optional)	

8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:15 2025 Page 1 ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-3-0 1-5-12

Scale = 1:20.3





LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD except end verticals. 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.





Job Truss Truss Type Qty Chesapeake-6260A:Lot158 FarmNeilsCreek 170870649 FNC158-F F12G **GABLE** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:15 2025 Page 1

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

ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

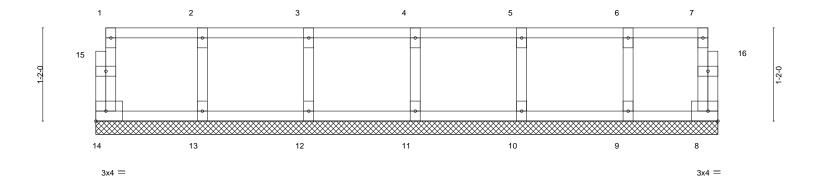
Structural wood sheathing directly applied or 6-0-0 oc purlins,

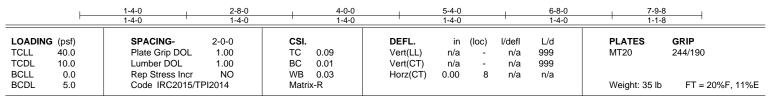
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8 0-1-8

Scale = 1:14.4





**BOT CHORD** 

LUMBER-BRACING-TOP CHORD

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)

> 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-

REACTIONS.

- 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.



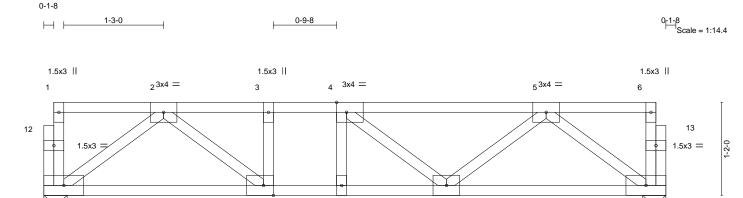


Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260A:Lot158 FarmNeilsCreek	
FNC158-F	F13	FLOOR	3	1		170870650
		. 1991			Job Reference (optional)	

8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:16 2025 Page 1 ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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



3x4 =

except end verticals.

	<b>—</b>					7-9-8 7-9-8						
Plate Offse	ets (X,Y)	[4:0-1-8,Edge], [10:0-1-8	,Edge]			7 0 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	0.32	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/Ti	PI2014	Matri	x-S						Weight: 42 lb	FT = 20%F, 11%E

**BRACING-**

TOP CHORD

**BOT CHORD** 

1.5x3 ||

LUMBER-

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat)

**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

5-7=-616/0, 2-11=-575/0, 2-10=0/366 WEBS

### 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.

10 3x4 =





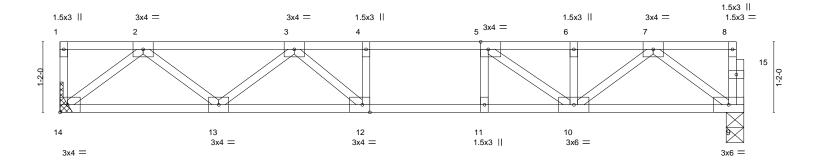
Job Truss Truss Type Qty Chesapeake-6260A:Lot158 FarmNeilsCreek 170870651 F14 FNC158-F **FLOOR** 11 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:16 2025 Page 1 Builders FirstSource (Apex, NC), Apex, NC - 27523, ID:hazSNSvRIgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

1-10-0

1-4-4

1-1-8

0<sub>1</sub>1<sub>7</sub>8 Scale = 1:19.1



		5-1-6	3		-		11-0	1-6-8		2-9-12	-
Plate Offs	ets (X,Y)	[5:0-1-8,Edge], [12:0-1-8,	Edge]			T					
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.09 12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.11 12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02 9	n/a	n/a		
BCDL	5.0	Code IRC2015/TP	12014	Matrix	-S					Weight: 57 lb	FT = 20%F, 11%E

TOP CHORD

**BOT CHORD** 

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat)

WEBS 2x4 SP No.3(flat)

1-3-0

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

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.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

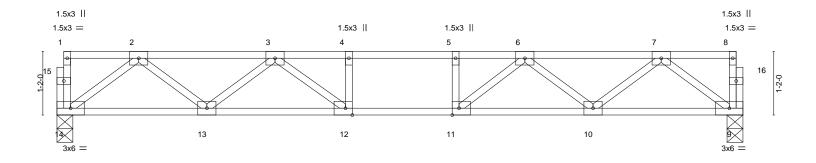
except end verticals.

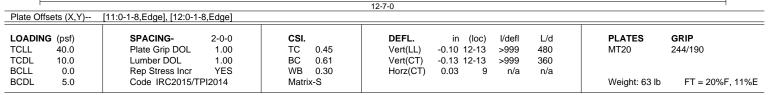


Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260A:Lot158 FarmNeilsCreek
FNC158-F	F15	FLOOR	R	1	17087065
1140130-1	1113	LOOK			Job Reference (optional)

8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:17 2025 Page 1 ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f







LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD except end verticals.

WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

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 2-14=-1038/0, 2-13=0/628, 3-13=-580/0, 3-12=0/470, 7-9=-1038/0, 7-10=0/626, WEBS

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.



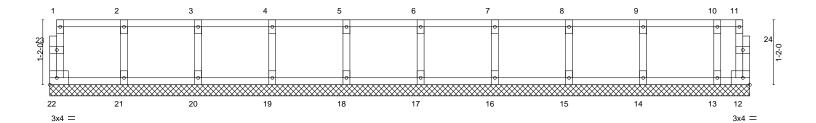


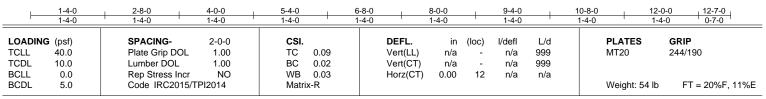
Job	Truss	Truss Type	Qty	Ply	Chesapeake-6260A:Lot158 FarmNeilsCreek
FNC158-F	F16G	GABLE	1	1	170870653
11101301	1 100	OADLE	'		Job Reference (optional)

0<sub>11</sub>8

8.630 s Sep 26 2024 MiTek Industries, Inc. Sat Jan 18 08:51:17 2025 Page 1 ID:hazSNSvRlgjAW5liYCphTxyvdPZ-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0<sub>1</sub>1<sub>7</sub>8 Scale = 1:20.7





LUMBER-BRACING-

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) 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-

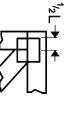
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, 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.



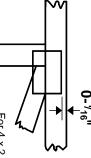


### Symbols

## PLATE LOCATION AND ORIENTATION



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



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

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

\* Plate location details available in MiTek software or upon request

### PLATE SIZE

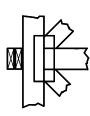
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



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

### **BEARING**



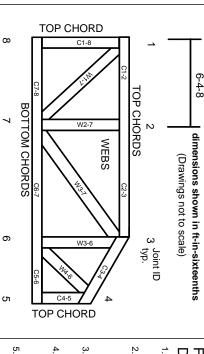
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### ANSI/TPI1: Industry Standards: National Design Specification for Metal

DSB-22:

Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

## 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

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

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

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### MiTek



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

# General Safety Notes

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

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

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- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.