

**Trenco**

818 Soundside Rd  
Edenton, NC 27932

Re: PricingFloor  
McKee-Clark II

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

Pages or sheets covered by this seal: I42805307 thru I42805329

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

North Carolina COA: C-0844



September 15,2020

Sevier, Scott

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

Job PRICINGFLOOR	Truss F01	Truss Type ROOF TRUSS	Qty 1	Ply 1	McKee-Clark II	I43405546
					Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 05:51:08 2020 Page 1  
ID:IVPazU2YfbZ3pfi4ZQ30aOzQim7-lu8lzpghHlxdGH\_Ovxo566KLMHeCwy\_YmnrONLyOefX



Scale = 1:17.8

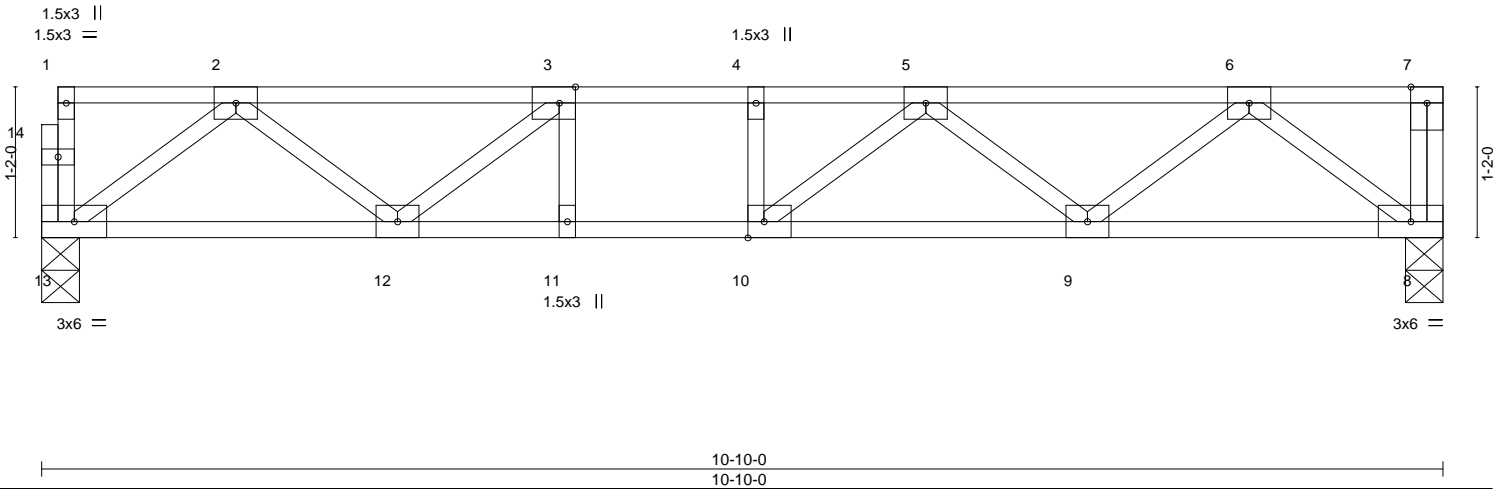


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.31	Vert(LL)	-0.07	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.58	Vert(CT)	-0.09	9-10	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.02	8	n/a		
BCDL 5.0	Code IRC2015/TP12014		Matrix-S					Weight: 56 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)

**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) 13=0-3-8, 8=0-3-8  
Max Grav 13=576(LC 1), 8=582(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1070/0, 3-4=-1447/0, 4-5=-1447/0, 5-6=-1075/0  
BOT CHORD 12-13=0/698, 11-12=0/1447, 10-11=0/1447, 9-10=0/1403, 8-9=0/703  
WEBS 2-13=-873/0, 2-12=0/485, 3-12=-487/0, 6-8=-882/0, 6-9=0/484, 5-9=-427/0, 5-10=-98/262

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
  - All plates are 3x4 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.
  - CAUTION, Do not erect truss backwards.



October 29,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

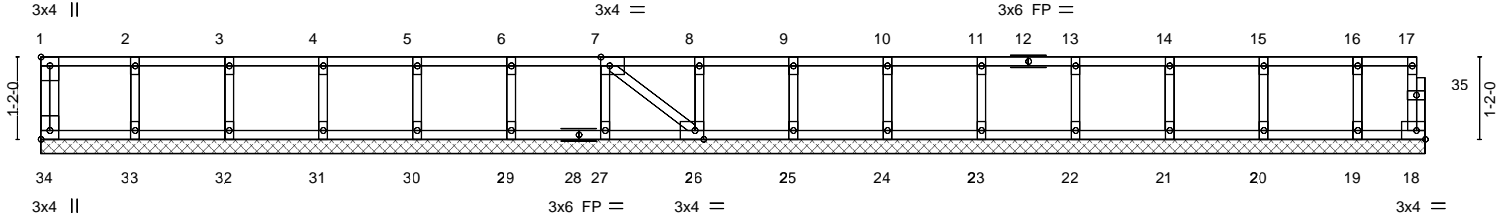
Job PRICINGFLOOR	Truss F01T	Truss Type GABLE	Qty 1	Ply 1	McKee-Clark II Job Reference (optional)	I42805307
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:34 2020 Page 1  
ID:IVPazU2YfbZ3pfi4ZQ30aOzQim7-DalZTDh22o5SSAgHUGWUyiV?ZO7cjj97uLguciydiKR

0-118

Scale = 1:32.7



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	16-0-0	17-4-0	18-8-0	19-7-8
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	1-4-0	1-4-0	1-4-0	0-11-8

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [26:0-1-8,Edge], [34:Edge,0-1-8]										
<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 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	18	n/a	n/a		
BCDL 5.0	Code IRC2015/TP12014		Matrix-S						Weight: 85 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
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 19-7-8.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 31, 30, 29, 27, 26, 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 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 15, 2020

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>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 <b>ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	 <p>818 Soundside Road Edenton, NC 27932</p>
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Job PRINCINGFLOOR	Truss F02	Truss Type ROOF TRUSS	Qty 9	Ply 1	McKee-Clark II	I42805308
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8,240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:35 2020 Page 1  
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1-3-0

1-4-8

0-1-8

Scale = 1:32.6

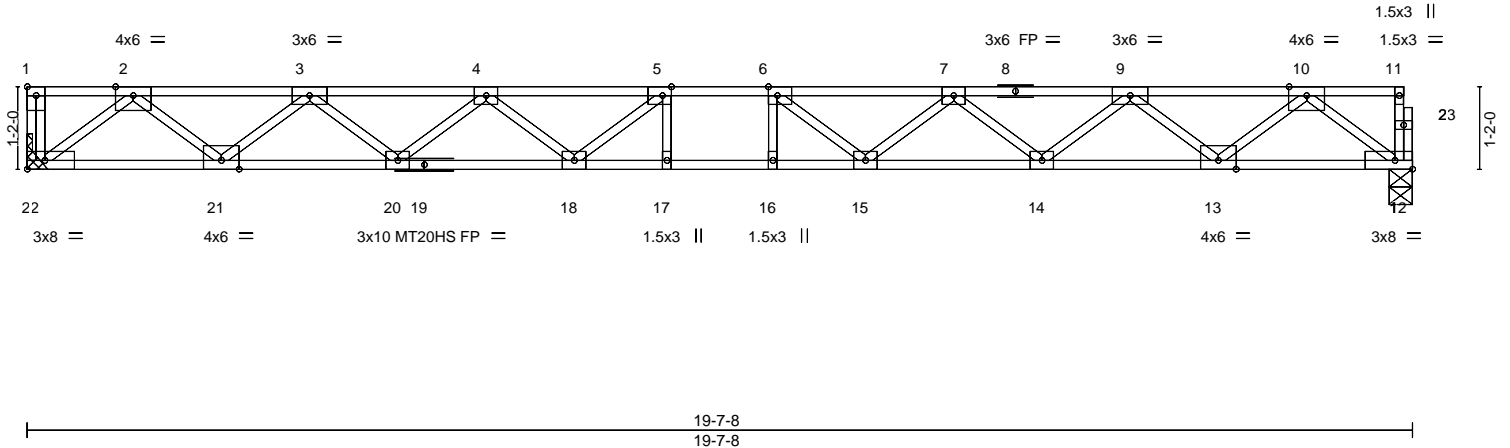


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge]

<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 40.0	Plate Grip DOL	1.00	TC 0.88	Vert(LL)	-0.42	16-17	>559	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.82	Vert(CT)	-0.57	16-17	>406	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.09	12	n/a	n/a		
BCDL 5.0	Code	IRC2015/TP12014	Matrix-S							
									Weight: 98 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat) *Except* 12-19: 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (size) 22=Mechanical, 12=0-4-0  
Max Grav 22=1066(LC 1), 12=1059(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2286/0, 3-4=-3820/0, 4-5=-4676/0, 5-6=-4938/0, 6-7=-4676/0, 7-9=-3819/0, 9-10=-2285/0  
 BOT CHORD 21-22=0/1334, 20-21=0/3204, 18-20=0/4405, 17-18=0/4938, 16-17=0/4938, 15-16=0/4938, 14-15=0/4405, 13-14=0/3204, 12-13=0/1333  
 WEBS 10-12=-1670/0, 2-22=-1674/0, 10-13=0/1239, 2-21=0/1239, 9-13=-1196/0, 3-21=-1195/0, 9-14=0/801, 3-20=0/801, 7-14=-762/0, 4-20=-762/0, 7-15=0/486, 4-18=0/486, 6-15=-615/97, 5-18=-615/97

- 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 3x4 MT20 unless otherwise indicated.
  - 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.
  - 6) CAUTION, Do not erect truss backwards.



September 15, 2020

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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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road  
Edenton, NC 27932

Job PRINCINGFLOOR	Truss F03	Truss Type ROOF TRUSS	Qty 1	Ply 1	McKee-Clark II	I42805309
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:36 2020 Page 1  
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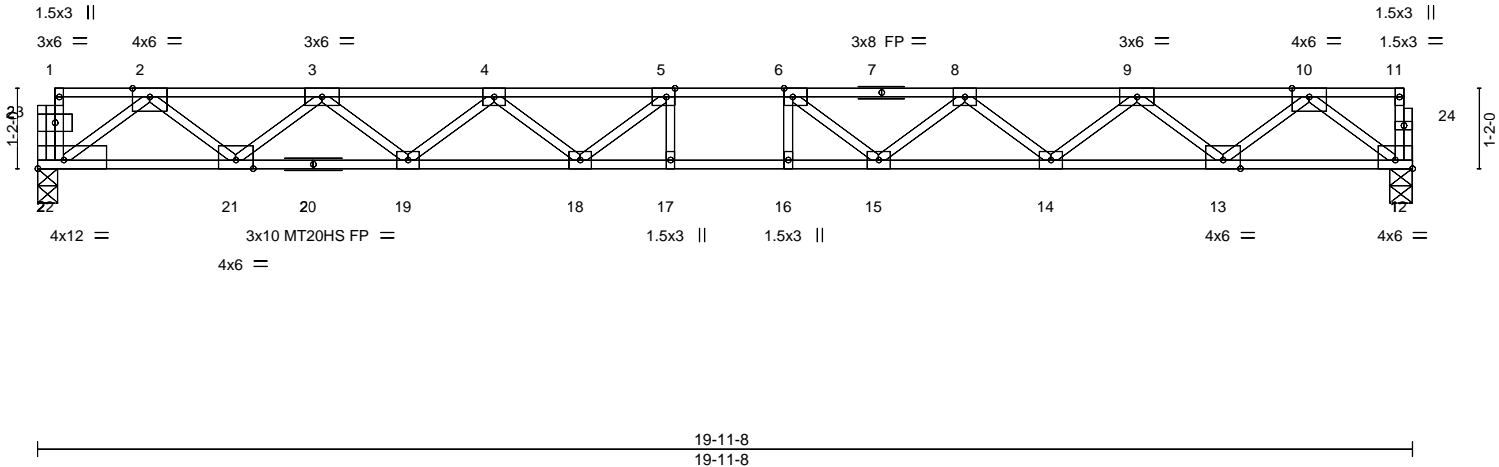
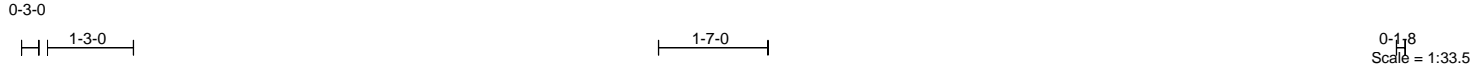


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [12:Edge,0-1-8], [22:Edge,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.93	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.92	Vert(LL) -0.44 16-17 >537 480	MT20HS	187/143
BCLL 0.0	Lumber DOL 1.00	WB 0.60	Vert(CT) -0.60 16-17 >390 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.09 12 n/a n/a		
	Code IRC2015/TP12014			Weight: 100 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat) *Except* 12-20: 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 19-21.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (size) 12=0-4-0, 22=0-3-8  
Max Grav 12=1074(LC 1), 22=1068(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2370/0, 3-4=-3922/0, 4-5=-4799/0, 5-6=-5069/0, 6-8=-4785/0, 8-9=-3892/0, 9-10=-2323/0  
 BOT CHORD 21-22=0/1407, 19-21=0/3298, 18-19=0/4518, 17-18=0/5069, 16-17=0/5069, 15-16=0/5069, 14-15=0/4495, 13-14=0/3259, 12-13=0/1353  
 WEBS 10-12=-1694/0, 2-22=-1732/0, 10-13=0/1263, 2-21=0/1254, 9-13=-1220/0, 3-21=-1208/0, 9-14=0/823, 3-19=0/812, 8-14=-785/0, 4-19=-776/0, 8-15=0/511, 4-18=0/503, 6-15=-659/88, 5-18=-647/100

- 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 3x4 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.



September 15, 2020

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Job PRINCINGFLOOR	Truss F04	Truss Type ROOF TRUSS	Qty 2	Ply 1	McKee-Clark II	I42805310
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:37 2020 Page 1  
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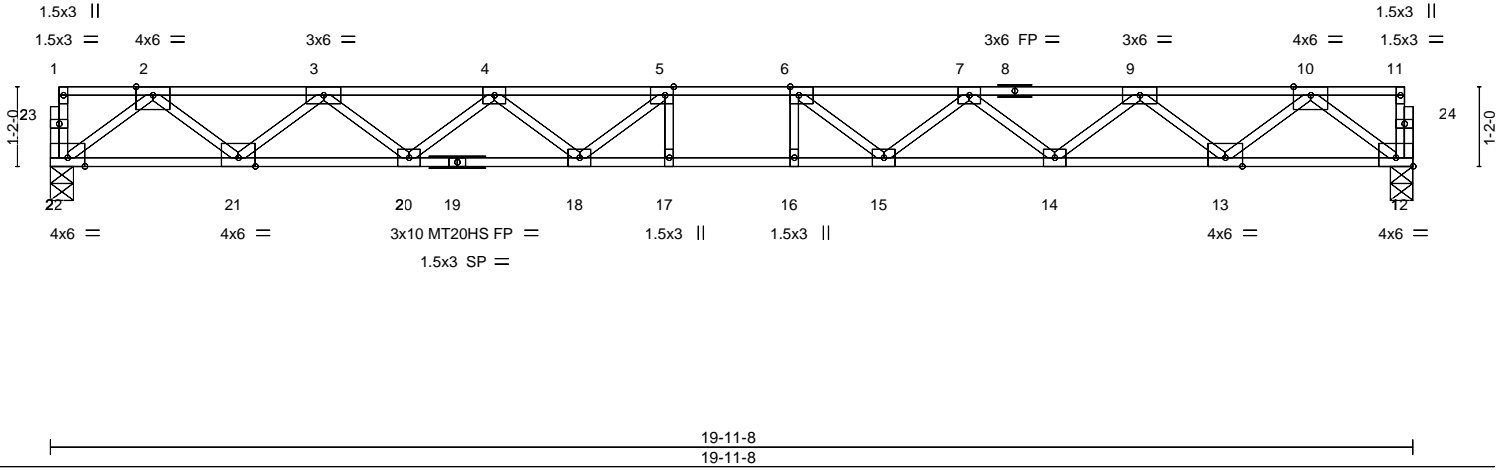
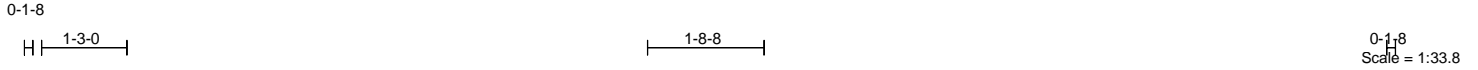


Plate Offsets (X,Y)--	[5:0-1-8,Edge], [6:0-1-8,Edge], [12:Edge,0-1-8]			
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.93	Vert(LL) -0.45 16-17 >531 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.85	Vert(CT) -0.61 16-17 >386 360	MT20HS 187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.09 12 n/a n/a	Weight: 99 lb FT = 20%F, 11%E
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat) *Except* 12-19: 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (size) 22=0-4-0, 12=0-4-0  
Max Grav 22=1078(LC 1), 12=1078(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 2-3=-2331/0, 3-4=-3909/0, 4-5=-4810/0, 5-6=-5098/0, 6-7=-4811/0, 7-9=-3909/0, 9-10=-2331/0  
**BOT CHORD** 21-22=0/1357, 20-21=0/3272, 18-20=0/4516, 17-18=0/5098, 16-17=0/5098, 15-16=0/5098, 14-15=0/4516, 13-14=0/3272, 12-13=0/1357  
**WEBS** 10-12=-1700/0, 2-22=-1700/0, 10-13=0/1268, 2-21=0/1268, 9-13=-1225/0, 3-21=-1225/0, 9-14=0/828, 3-20=0/829, 7-14=-790/0, 4-20=-790/0, 7-15=0/519, 4-18=0/519, 6-15=-674/88, 5-18=-674/88

- 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 3x4 MT20 unless otherwise indicated.
  - 4) The Fabrication Tolerance at joint 19 = 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.



Job PRINCINGFLOOR	Truss F05	Truss Type ROOF TRUSS	Qty 1	Ply 1	McKee-Clark II	I42805311
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:38 2020 Page 1  
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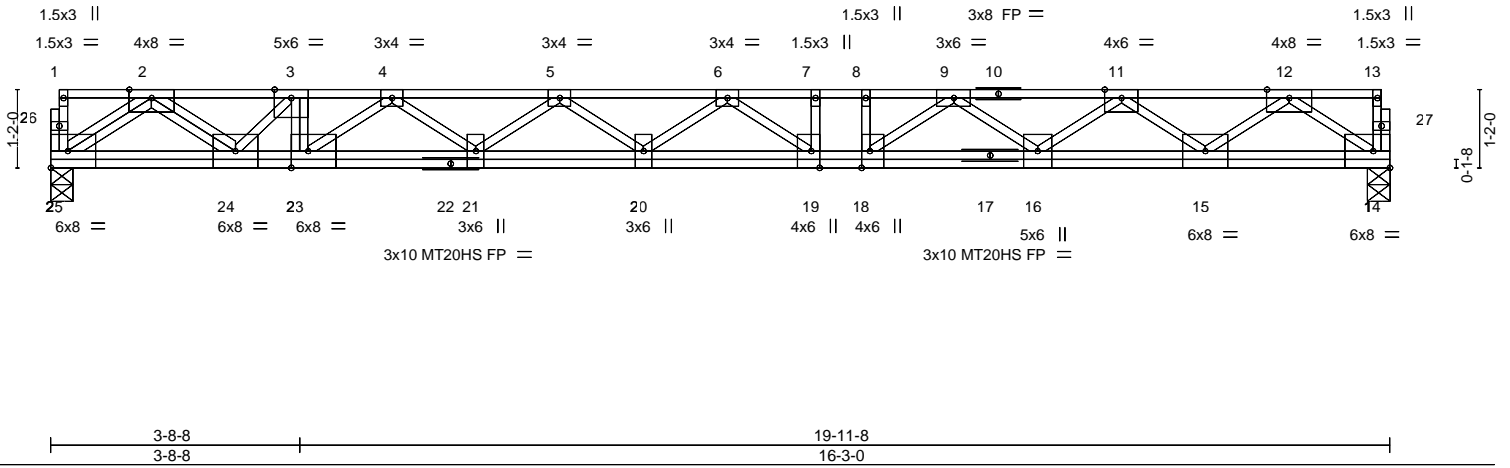


Plate Offsets (X,Y)--	[18:0-3-0,Edge], [19:0-3-0,Edge], [23:0-3-0,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSL</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.96	Vert(LL) -0.46 19-20 >514 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.65	Vert(CT) -0.63 19-20 >373 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr NO	WB 0.69	Horz(CT) 0.05 14 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 134 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP SS(flat) *Except* 10-13: 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat) *Except* 14-17: 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) 25=0-4-0, 14=0-4-0  
Max Grav 25=1831(LC 1), 14=1249(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-4351/0, 3-4=-5941/0, 4-5=-6887/0, 5-6=-7151/0, 6-7=-6524/0, 7-8=-6524/0, 8-9=-6524/0, 9-11=-4901/0, 11-12=-2841/0  
BOT CHORD 24-25=0/2482, 23-24=0/5941, 21-23=0/6568, 20-21=0/7185, 19-20=0/7009, 18-19=0/6524, 16-18=0/5815, 15-16=0/4041, 14-15=0/1702  
WEBS 12-14=-2027/0, 2-25=-3044/0, 2-24=0/2430, 4-23=-770/0, 12-15=0/1451, 4-21=0/405, 11-15=-1524/0, 5-21=-378/0, 11-16=0/1093, 9-16=-1161/0, 6-20=-187/395, 3-24=-2193/0, 9-18=0/1079, 6-19=-840/121, 3-23=0/428

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
  - All plates are MT20 plates 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.
  - CAUTION, Do not erect truss backwards.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 95 lb down at 3-8-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 14-25=-10, 1-13=-100  
Concentrated Loads (lb)  
Vert: 3=-925(F)



September 15, 2020

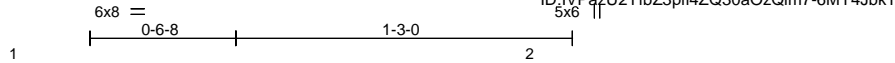
Job PRICINGFLOOR	Truss F06	Truss Type ROOF TRUSS	Qty 1	Ply 1	McKee-Clark II	I42805312
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8,240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:38 2020 Page 1

ID:IVPazU2YfbZ3pfi4ZQ30aOzQim7-6MY4JbkY51buxn\_3jWbQ6Xff1?RpFTOjpe5ITydkN



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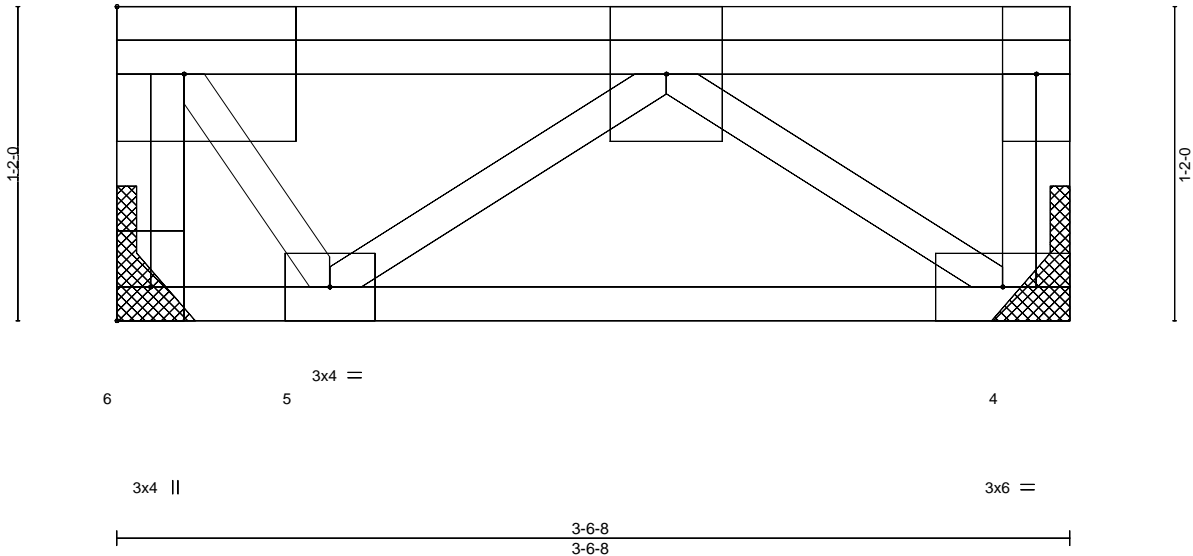


Plate Offsets (X,Y)-- [6:Edge,0-1-8]						PLATES	GRIP	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.19	Vert(LL)	-0.00	4-5	>999	480
TCDL 10.0	Lumber DOL	1.00	BC 0.31	Vert(CT)	-0.01	4-5	>999	360
BCLL 0.0	Rep Stress Incr	NO	WB 0.27	Horz(CT)	0.00	4	n/a	n/a
BCDL 5.0	Code IRC2015/TPI2014		Matrix-P					
								Weight: 26 lb
								FT = 20%F, 11%E

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

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

**REACTIONS.** (size) 6=Mechanical, 4=Mechanical  
 Max Grav 6=922(LC 1), 4=922(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-6=-921/0, 3-4=-266/0, 1-2=-323/0  
 BOT CHORD 4-5=0/903  
 WEBS 2-4=-1109/0, 2-5=-737/0, 1-5=0/574

**NOTES-**  
 1) Refer to girder(s) for truss to truss connections.  
 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.  
 3) 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: 4-6=-10, 1-3=-550(F=-450)



September 15, 2020



Job PRINCINGFLOOR	Truss F07	Truss Type ROOF TRUSS	Qty 2	Ply 1	McKee-Clark II	I42805313
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:39 2020 Page 1  
ID:IVPazU2YfbZ3pfi4ZQ30aOzQim7-aY5SxXlBsKjJzZFHD6fflClzPeNOtv2dOfHydiKM

1-3-0

1-7-0

0-1-8

Scale = 1:26.7

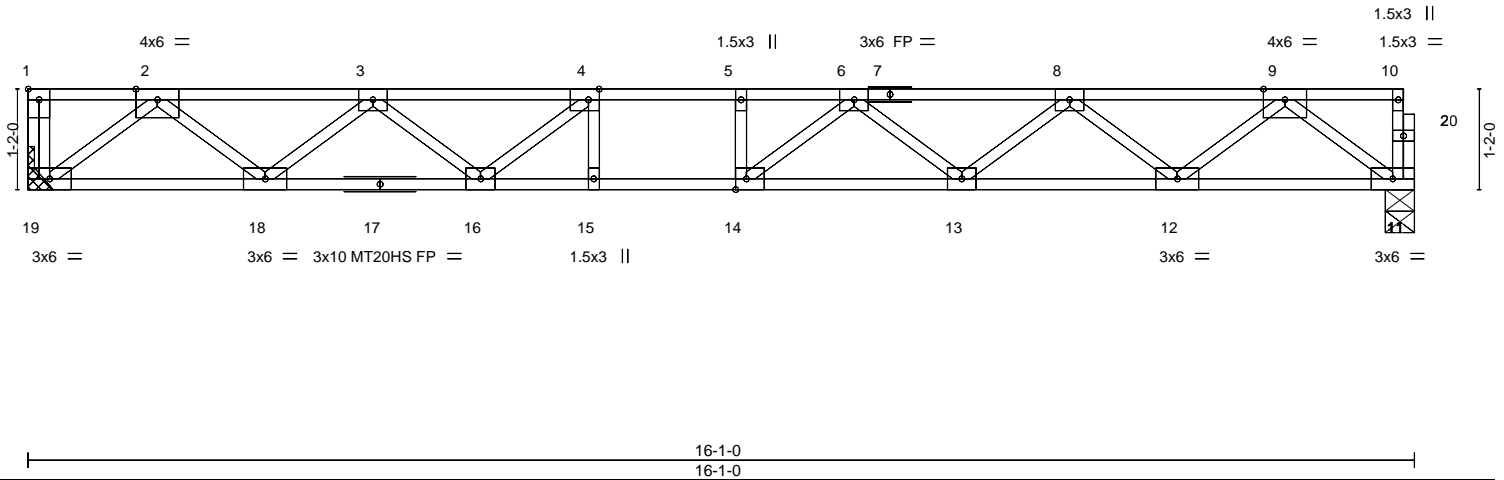


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [14:0-1-8,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.57	Vert(LL) -0.21	13-14	>889	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.80	Vert(CT) -0.30	13-14	>641	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.05	11	n/a	n/a		
BCDL 5.0	Code IRC2015/TP12014	Matrix-S						
							Weight: 81 lb	FT = 20%F, 11%E

**LUMBER-**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat) \*Except\*  
 11-17: 2x4 SP No.1(flat)  
 WEBS 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.** (size) 19=Mechanical, 11=0-4-0  
 Max Grav 19=871(LC 1), 11=865(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1799/0, 3-4=-2858/0, 4-5=-3262/0, 5-6=-3262/0, 6-8=-2866/0, 8-9=-1797/0  
 BOT CHORD 18-19=0/1079, 16-18=0/2482, 15-16=0/3262, 14-15=0/3262, 13-14=0/3198, 12-13=0/2489,  
 11-12=0/1076  
 WEBS 9-11=-1347/0, 2-19=-1353/0, 9-12=0/939, 2-18=0/938, 8-12=-901/0, 3-18=-888/0,  
 8-13=0/490, 3-16=0/533, 6-13=-433/0, 4-16=-658/0, 6-14=-194/417

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
  - All plates are MT20 plates unless otherwise indicated.
  - All plates are 3x4 MT20 unless otherwise indicated.
  - Refer to girder(s) for truss to truss connections.
  - 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.
  - CAUTION, Do not erect truss backwards.



September 15, 2020

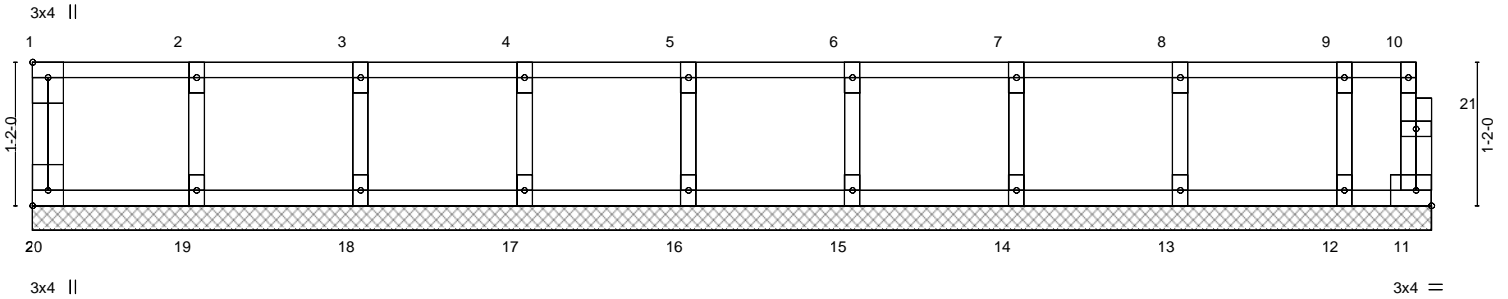
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

Job PRICINGFLOOR	Truss F08T	Truss Type GABLE	Qty 1	Ply 1	McKee-Clark II	I42805314
Builders FirstSource (Apex, NC), Apex, NC - 27523,					Job Reference (optional)	



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-4-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-8-8

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [20:Edge,0-1-8]

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	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.00	11	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 50 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 11-4-8.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

**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.



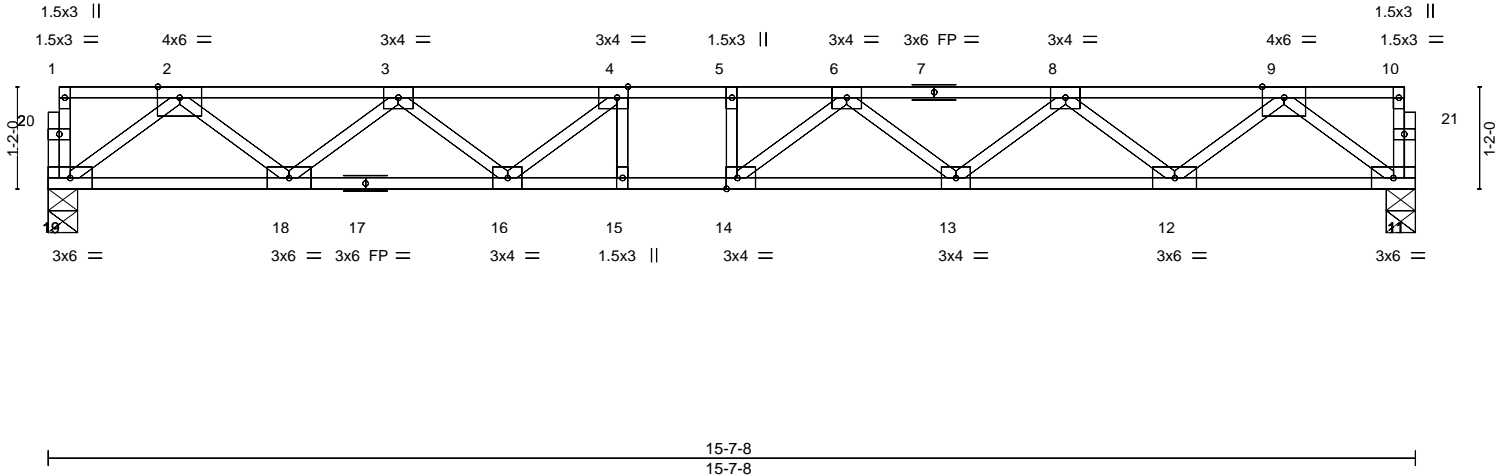
September 15, 2020

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job PRINCINGFLOOR	Truss F09	Truss Type ROOF TRUSS	Qty 3	Ply 1	McKee-Clark II	I42805315
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:40 2020 Page 1  
ID:IVPazU2YfbZ3pfi4ZQ30aOzQim7-2kfqkHmpdercA58RqxdBylyfpyO7KR0HH7CpMydiKL



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.20	14	>945	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.27	13-14	>681	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TP12014	Matrix-S							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.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 13-14.
WEBS	2x4 SP No.3(flat)		

**REACTIONS.** (size) 19=0-4-0, 11=0-4-0  
Max Grav 19=839(LC 1), 11=839(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1736/0, 3-4=-2734/0, 4-5=-3085/0, 5-6=-3085/0, 6-8=-2740/0, 8-9=-1735/0  
BOT CHORD 18-19=0/1044, 16-18=0/2392, 15-16=0/3085, 14-15=0/3085, 13-14=0/3047, 12-13=0/2395, 11-12=0/1043  
WEBS 9-11=-1305/0, 2-19=-1307/0, 9-12=0/901, 2-18=0/901, 8-12=-860/0, 3-18=-854/0, 8-13=0/449, 3-16=0/487, 6-13=-400/0, 4-16=-568/0, 6-14=-213/359

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
  - 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 15, 2020

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>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 <b>ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job PRINCINGFLOOR	Truss F10	Truss Type ROOF TRUSS	Qty 4	Ply 1	McKee-Clark II	I42805316
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

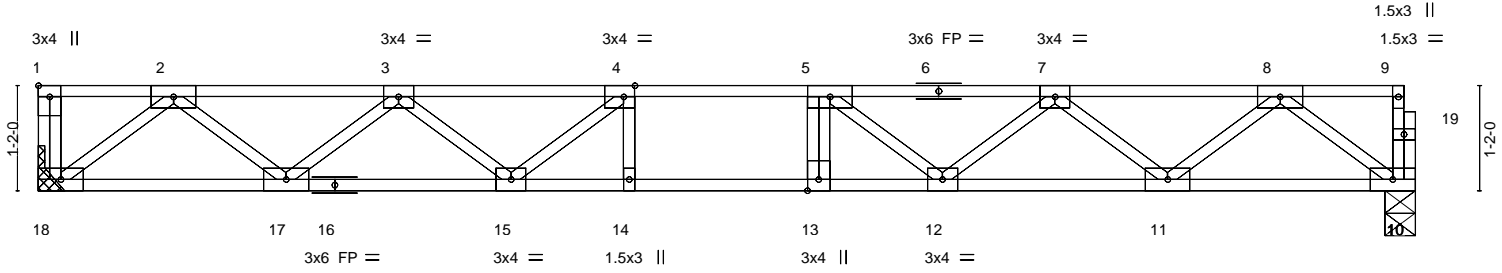
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:41 2020 Page 1  
ID:IVPazU2YfbZ3pfi4ZQ30aOzQim7-WxDCxcnROyzToFjdOe87kAH6dDK?stn9VxtmMoydiKK

1-3-0

1-11-0

0-1-8

Scale = 1:25.6



8-9-8  
8-9-8

15-3-8  
6-6-0

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.49	Vert(LL)	-0.17	12-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.79	Vert(CT)	-0.23	12-13	>790		
BCLL 0.0	Rep Stress Incr YES	WB 0.42	Horz(CT)	0.05	10	n/a		
BCDL 5.0	Code IRC2015/TP12014	Matrix-S						
							Weight: 78 lb	FT = 20%F, 11%E

**LUMBER-**

TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat) \*Except\*  
10-16: 2x4 SP No.1(flat)  
WEBS 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.**

(size) 18=Mechanical, 10=0-4-0  
Max Grav 18=827(LC 1), 10=821(LC 1)

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

TOP CHORD 2-3=-1691/0, 3-4=-2643/0, 4-5=-2958/0, 5-7=-2642/0, 7-8=-1691/0  
BOT CHORD 17-18=0/1020, 15-17=0/2326, 14-15=0/2958, 13-14=0/2958, 12-13=0/2958, 11-12=0/2329,  
10-11=0/1018  
WEBS 8-10=-1274/0, 2-18=-1279/0, 8-11=0/876, 2-17=0/874, 7-11=-831/0, 3-17=-827/0,  
7-12=0/460, 3-15=0/468, 5-12=-583/0, 4-15=-587/0

**NOTES-**

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x6 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- 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.
- CAUTION, Do not erect truss backwards.



September 15, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
Edenton, NC 27932

Job PRICING FLOOR	Truss F12	Truss Type ROOF TRUSS	Qty 1	Ply 1	McKee-Clark II	I42805317
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:42 2020 Page 1  
ID:IVPazU2YfbZ3pfi4ZQ30aOzQim7-\_7nb9yn39F5KQPHqyLfMGnqJoclKbHSJkbcJuEydiKJ

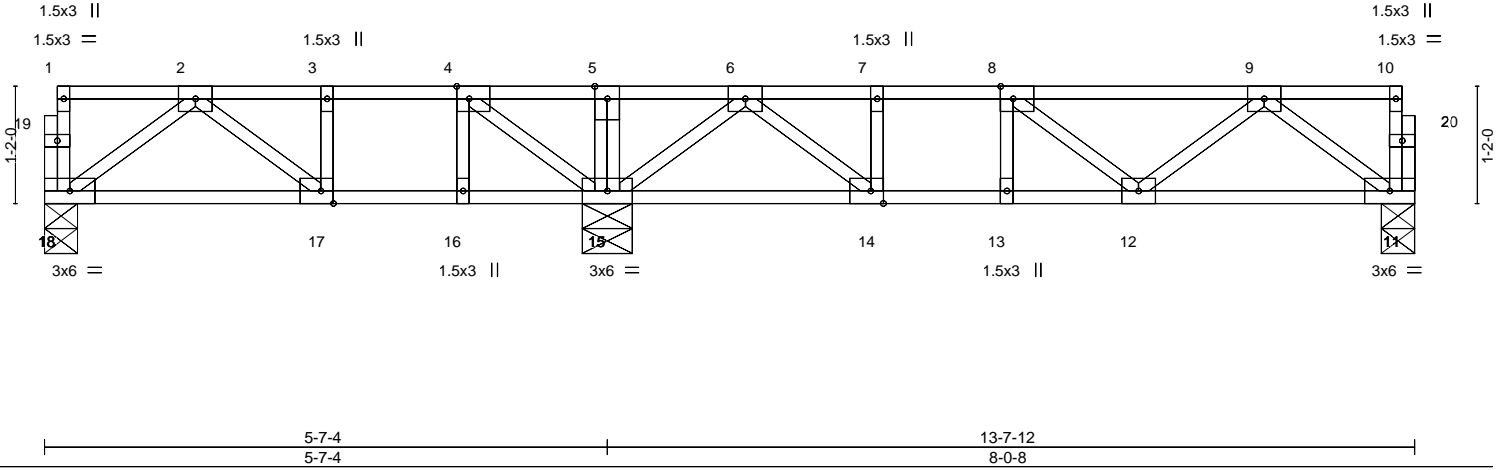


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [8:0-1-8,Edge], [14:0-1-8,Edge], [17:0-1-8,Edge]

<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 40.0	Plate Grip DOL	1.00	TC 0.34	Vert(LL)	-0.04	12-13	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.47	Vert(CT)	-0.05	12-13	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.01	11	n/a	n/a		
BCDL 5.0	Code	IRC2015/TP12014	Matrix-S							
									Weight: 72 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)

**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) 18=0-3-15, 11=0-4-0, 15=0-6-0  
Max Grav 18=320(LC 10), 11=441(LC 7), 15=725(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-447/0, 3-4=-447/0, 6-7=-860/0, 7-8=-860/0, 8-9=-729/0  
BOT CHORD 17-18=0/338, 16-17=0/447, 15-16=0/447, 14-15=0/564, 13-14=0/860, 12-13=0/860, 11-12=0/537  
WEBS 2-18=-421/0, 4-15=-461/0, 9-11=-672/0, 6-15=-604/0, 6-14=0/430

- 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.
  - 4) CAUTION, Do not erect truss backwards.



September 15, 2020

Job PRICINGFLOOR	Truss F13	Truss Type ROOF TRUSS	Qty 1	Ply 1	McKee-Clark II	I42805318
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:43 2020 Page 1  
ID:IVPazU2YfbZ3pfi4ZQ30aOzQim7-SJLzMLohwZDB1Zs0W3AbpbNTH05AKkLSzFMsQhydiKI

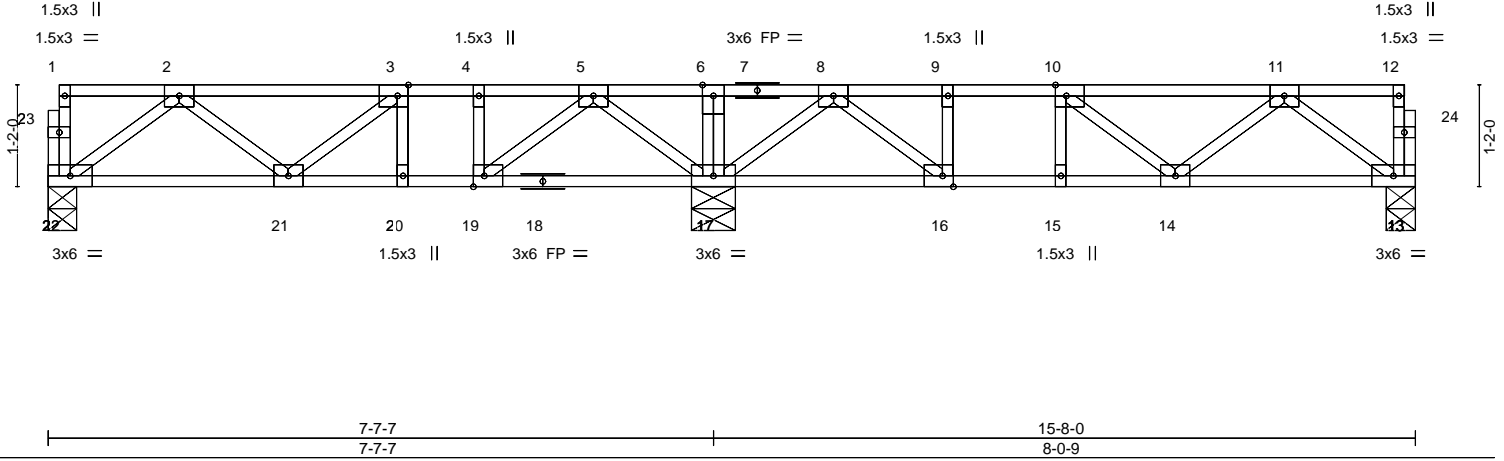


Plate Offsets (X,Y)--	[3:0-1-8,Edge], [10:0-1-8,Edge], [16:0-1-8,Edge], [19:0-1-8,Edge]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.35	Vert(LL)	-0.04	14-15	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.49	Vert(CT)	-0.05	14-15	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.01	13	n/a	n/a		
BCDL 5.0	Code	IRC2015/TP12014	Matrix-S							
									Weight: 82 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
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) 22=0-3-15, 17=0-6-0, 13=0-4-0  
Max Grav 22=398(LC 10), 17=900(LC 1), 13=416(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-620/0, 3-4=-697/0, 4-5=-697/0, 5-6=0/290, 6-8=0/290, 8-9=-748/0, 9-10=-748/0, 10-11=-663/0  
BOT CHORD 21-22=0/479, 20-21=0/697, 19-20=0/697, 17-19=0/404, 16-17=0/400, 15-16=0/748, 14-15=0/748, 13-14=0/506  
WEBS 2-22=-599/0, 5-17=-614/0, 5-19=0/446, 11-13=-633/0, 8-17=-630/0, 8-16=0/479

- 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.
  - 4) CAUTION, Do not erect truss backwards.



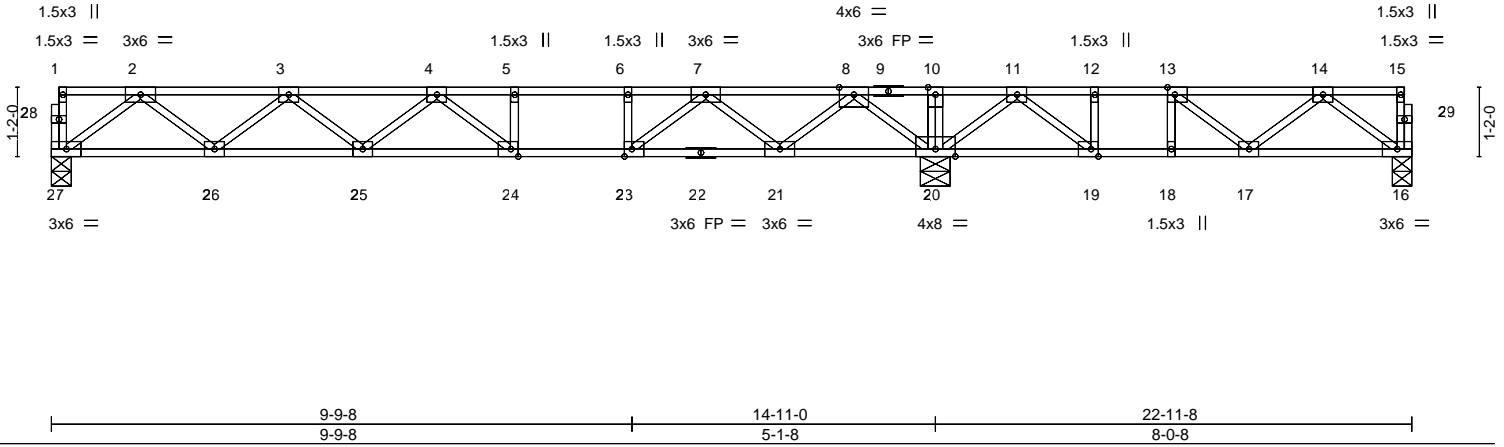
September 15, 2020

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>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 <b>ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job PRINCINGFLOOR	Truss F14	Truss Type ROOF TRUSS	Qty 1	Ply 1	McKee-Clark II	I42805319
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8,240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:51 2020 Page 1  
ID:IVPazU2YfbZ3pfi4ZQ30aOzQim7-Dsq\_21ui10E2?nTY\_kKT8HihLFjaCJ0epVIHiDydiKA



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.99	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.91	Vert(LL) -0.22 24-25 >824 480		
BCLL 0.0	Rep Stress Incr YES	WB 0.44	Vert(CT) -0.30 24-25 >597 360		
BCDL 5.0	Code IRC2015/TP12014	Matrix-S	Horz(CT) 0.03 16 n/a n/a		
				Weight: 116 lb	FT = 20%F, 11%E

**LUMBER-**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.1(flat) \*Except\*  
16-22: 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)

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

**REACTIONS.** (size) 27=0-4-0, 16=0-4-0, 20=0-6-0  
Max Uplift 16=-8(LC 3)  
Max Grav 27=745(LC 10), 16=389(LC 4), 20=1447(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1493/0, 3-4=-2302/0, 4-5=-2254/0, 5-6=-2254/0, 6-7=-2254/0, 7-8=-905/0,  
8-10=0/1050, 10-11=0/1050, 11-12=-629/330, 12-13=-629/330, 13-14=-595/121  
BOT CHORD 26-27=0/918, 25-26=0/2050, 24-25=0/2462, 23-24=0/2254, 21-23=0/1623,  
19-20=-652/237, 18-19=-330/629, 17-18=-330/629, 16-17=-15/474  
WEBS 2-27=-1149/0, 8-20=-1353/0, 2-26=0/748, 8-21=0/923, 3-26=-725/0, 7-21=-962/0,  
3-25=0/328, 7-23=0/902, 4-24=-402/123, 14-16=-594/18, 11-20=-803/0, 11-19=0/710,  
13-17=-43/267, 12-19=-287/0, 6-23=-382/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x4 MT20 unless otherwise indicated.
  - 3) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16. This connection is for uplift only and does not consider lateral forces.
  - 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.

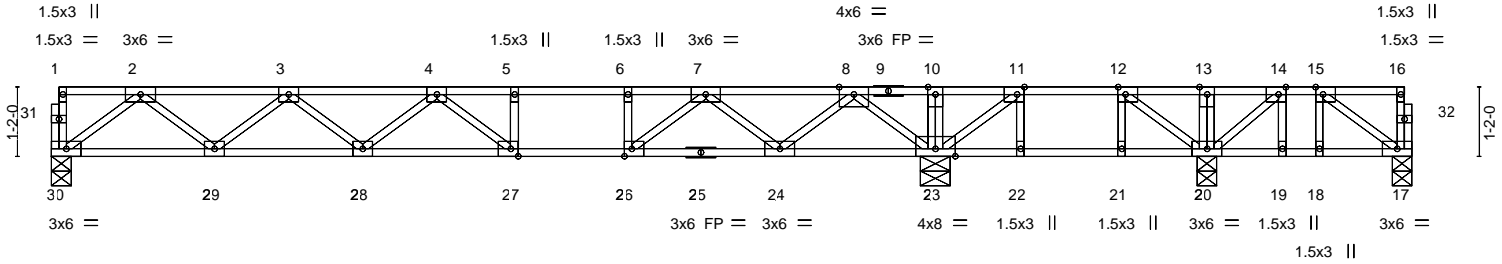


September 15, 2020

Job PRINCINGFLOOR	Truss F15	Truss Type ROOF TRUSS	Qty 1	Ply 1	McKee-Clark II Job Reference (optional)	I42805320
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:54 2020 Page 1  
ID:IVPazU2YfbZ3pfi4ZQ30aOzQim7-eRV7g3xbKxcdsFC7ftAlvKcKSkKPgv4VSWyJYydik7



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.

9-9-8	14-11-0	19-6-0	22-11-8
9-9-8	5-1-8	4-7-0	3-5-8
Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge], [14:0-1-8,Edge], [15:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,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 40.0	Plate Grip DOL	1.00	TC 0.98	Vert(LL)	-0.22	27-28	>825	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.90	Vert(CT)	-0.30	27-28	>597	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.03	23	n/a	n/a		
BCDL 5.0	Code IRC2015/TP12014		Matrix-S							
									Weight: 119 lb	FT = 20%F, 11%E

**LUMBER-**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.1(flat) \*Except\*  
17-25: 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)

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

**REACTIONS.** All bearings 0-4-0 except (jt=length) 23=0-6-0.  
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 17=-137(LC 3)  
Max Grav All reactions 250 lb or less at joint(s) 17 except 30=747(LC 14), 23=1200(LC 13), 20=564(LC 14)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1497/0, 3-4=-2310/0, 4-5=-2267/0, 5-6=-2267/0, 6-7=-2267/0, 7-8=-921/0,  
8-10=0/907, 10-11=0/907, 11-12=-17/636, 12-13=0/609, 13-14=0/608, 14-15=-45/269  
BOT CHORD 29-30=0/920, 28-29=0/2056, 27-28=0/2472, 26-27=0/2267, 24-26=0/1636, 22-23=-636/17,  
21-22=-636/17, 20-21=-636/17, 19-20=-269/45, 18-19=-269/45, 17-18=-269/45  
WEBS 2-30=-1152/0, 8-23=-1358/0, 2-29=0/751, 8-24=0/903, 3-29=-728/0, 7-24=-942/0,  
3-28=0/330, 7-26=0/896, 4-27=-393/137, 12-20=-256/120, 11-23=-493/0, 15-17=-51/335,  
14-20=-557/0, 6-26=-379/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
  - All plates are 3x4 MT20 unless otherwise indicated.
  - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
  - 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.
  - CAUTION, Do not erect truss backwards.



September 15, 2020

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Job PRINCINGFLOOR	Truss F16T	Truss Type ROOF TRUSS	Qty 1	Ply 1	McKee-Clark II	I42805321
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:55 2020 Page 1  
ID:IVPazU2YfbZ3pfi4ZQ30aOzQim7-6d3VtPyD5FkUTPnKDaOPi7sbqsHa8D9Dj6Gvr\_ydiK6

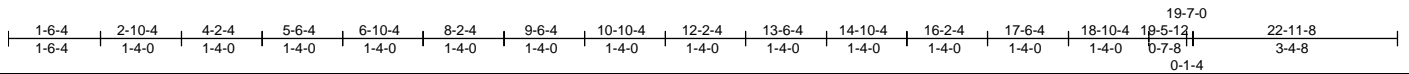
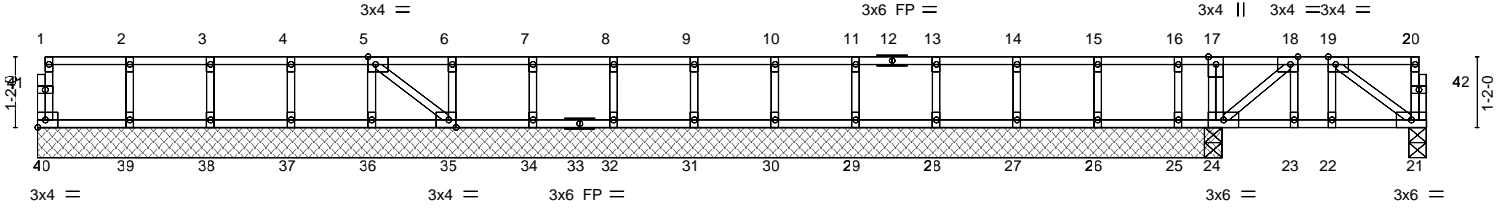
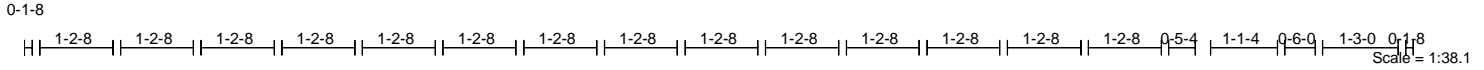


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [18:0-1-8,Edge], [19:0-1-8,Edge], [35:0-1-8,Edge]

<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 40.0	Plate Grip DOL	1.00	TC 0.12	Vert(LL)	-0.00	22	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.07	Vert(CT)	-0.00	22	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.00	21	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 104 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)

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

**REACTIONS.** All bearings 19-7-0 except (jt=length) 21=0-3-8.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 25, 26, 27, 28, 29, 30, 31, 32, 34, 35, 36, 37, 38, 39, 24, 24, 21

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

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 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 15, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Job PRICINGFLOOR	Truss F17	Truss Type ROOF TRUSS	Qty 5	Ply 1	McKee-Clark II	I42805322
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:57 2020 Page 1  
ID:IVPazU2YfbZ3pfi4ZQ30aOzQim7-20BGI5zTds\_CjixiK?RtNYys6fsDc?oWBQlclwtydiK4

0-1-8  
H | 1-3-0 | 0-11-8 | 0-1-8  
Scale = 1:38.9

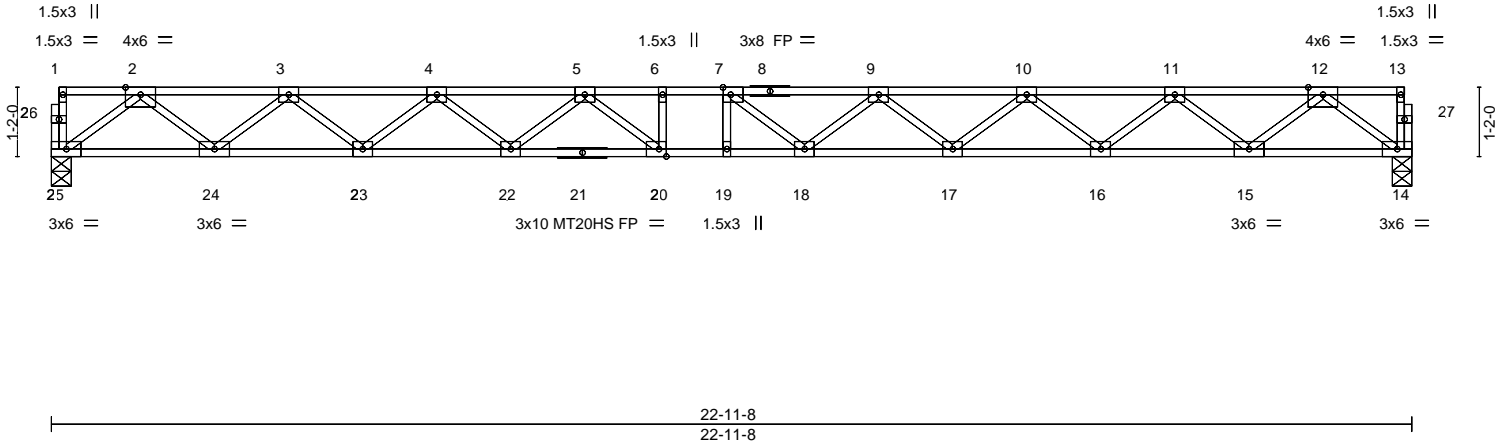


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [20:0-1-8,Edge]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 1-4-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.39	Vert(LL) -0.46 19 >594 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.57	Vert(CT) -0.63 18-19 >433 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.09 14 n/a n/a		
BCDL 5.0	Code IRC2015/TP12014	Matrix-S			
				Weight: 115 lb	FT = 20%F, 11%E

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


**REACTIONS.** (size) 25=0-4-0, 14=0-4-0  
Max Grav 25=828(LC 1), 14=828(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1830/0, 3-4=-3145/0, 4-5=-4007/0, 5-6=-4505/0, 6-7=-4505/0, 7-9=-4443/0, 9-10=-4016/0, 10-11=-3143/0, 11-12=-1831/0  
BOT CHORD 24-25=0/1049, 23-24=0/2589, 22-23=0/3679, 20-22=0/4326, 19-20=0/4505, 18-19=0/4505, 17-18=0/4340, 16-17=0/3675, 15-16=0/2590, 14-15=0/1049  
WEBS 12-14=-1314/0, 2-25=-1314/0, 12-15=0/1018, 2-24=0/1017, 11-15=-989/0, 3-24=-988/0, 11-16=0/719, 3-23=0/723, 10-16=-694/0, 4-23=-695/0, 10-17=0/444, 4-22=0/427, 9-17=-422/0, 5-22=-415/0, 9-18=-72/296, 5-20=-122/470, 7-18=-334/193

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
  - All plates are MT20 plates unless otherwise indicated.
  - All plates are 3x4 MT20 unless otherwise indicated.
  - Required 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 15, 2020

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>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 <b>ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	 <p>818 Soundside Road Edenton, NC 27932</p>
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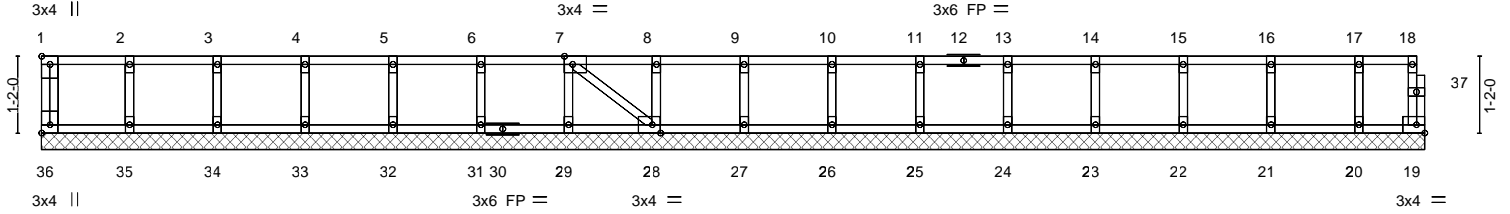
Job PRICINGFLOOR	Truss F18T	Truss Type GABLE	Qty 1	Ply 1	McKee-Clark II Job Reference (optional)	I42805323
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:58 2020 Page 1  
ID:IVPazU2YfbZ3pfi4ZQ30aOzQim7-WCleWQ\_5OA63LsWvuiy6wIU6W3JDLZ5gQ4U9SJydiK3

0-1/8"

Scale = 1:35.0



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	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-0-0
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	1-4-0	1-0-0

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [28:0-1-8,Edge], [36:Edge,0-1-8]

<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 40.0	Plate Grip DOL	1.00	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.00	19	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 90 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 21-0-0.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 35, 34, 33, 32, 31, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20

**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 15, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Edenton, NC 27932

Job PRINCINGFLOOR	Truss F19	Truss Type ROOF TRUSS	Qty 6	Ply 1	McKee-Clark II Job Reference (optional)	I42805324
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:24:59 2020 Page 1  
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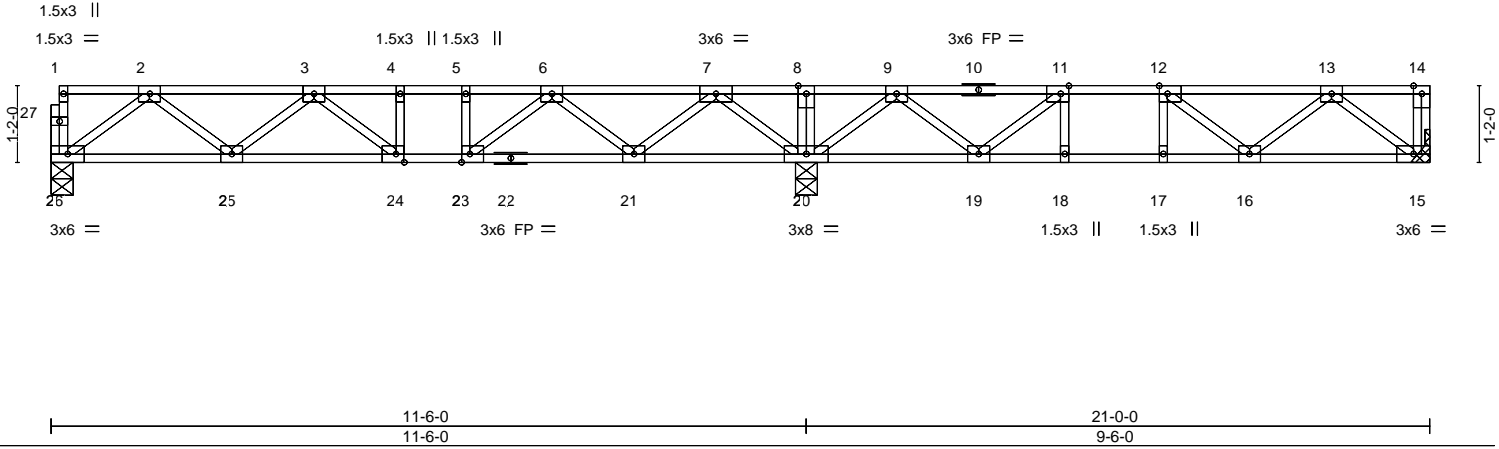
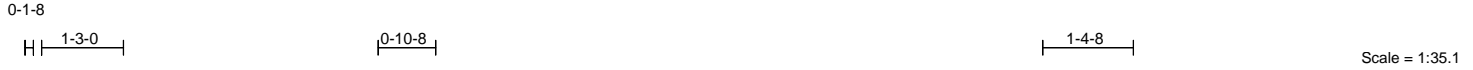


Plate Offsets (X,Y)--	[11:0-1-8,Edge], [12:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1-8,Edge]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.50	Vert(LL)	-0.05	24-25	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.60	Vert(CT)	-0.07	24-25	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.33	Horz(CT)	0.02	15	n/a	n/a		
BCDL 5.0	Code	IRC2015/TP12014	Matrix-S							
									Weight: 108 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
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 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (size) 26=0-4-0, 15=Mechanical, 20=0-4-0  
Max Grav 26=553(LC 10), 15=456(LC 4), 20=1345(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1018/0, 3-4=-1334/0, 4-5=-1334/0, 5-6=-1334/0, 6-7=-620/88, 7-8=0/1067, 8-9=0/1067, 9-11=-512/283, 11-12=-895/55, 12-13=-748/0  
BOT CHORD 25-26=0/673, 24-25=0/1320, 23-24=0/1334, 21-23=0/1092, 20-21=-268/131, 19-20=-479/156, 18-19=-55/895, 17-18=-55/895, 16-17=-55/895, 15-16=0/548  
WEBS 2-26=-842/0, 7-20=-1095/0, 2-25=0/450, 7-21=0/688, 3-25=-392/0, 6-21=-670/0, 6-23=0/474, 13-15=-687/0, 9-20=-915/0, 13-16=-27/261, 9-19=0/553, 11-19=-620/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
  - All plates are 3x4 MT20 unless otherwise indicated.
  - Refer to girder(s) for truss to truss connections.
  - 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.
  - CAUTION, Do not erect truss backwards.



September 15, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

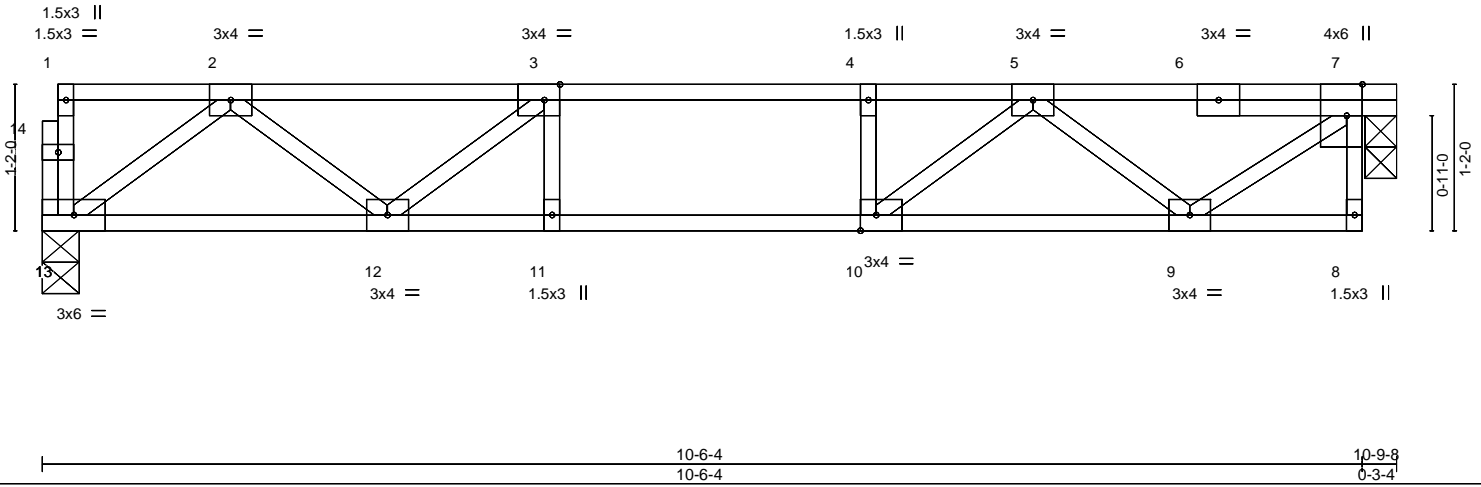
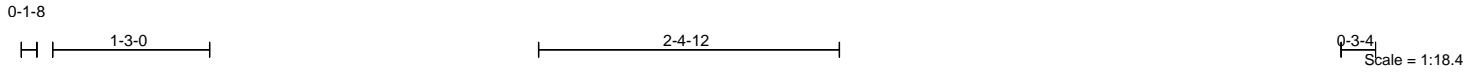


818 Soundside Road  
Edenton, NC 27932

Job PRINCINGFLOOR	Truss F23A	Truss Type ROOF TRUSS	Qty 1	Ply 1	McKee-Clark II	I43405547
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Oct 29 05:51:09 2020 Page 1  
ID:IVPazU2YfbZ3pfi4ZQ30aOzQim7-D4i7A9hv3b3TurZbSeJKeKtTbg\_ufNRi?VfxvoyOefW



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.61	Vert(LL) -0.08 11 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.35	Vert(CT) -0.10 11 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 7 n/a n/a		
	Code IRC2015/TP12014			Weight: 54 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) 13=0-3-8, 7=0-3-0  
Max Grav 13=562(LC 1), 7=568(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1037/0, 3-4=-1367/0, 4-5=-1367/0, 5-7=-585/0  
BOT CHORD 12-13=0/683, 11-12=0/1367, 10-11=0/1367, 9-10=0/1081  
WEBS 2-13=-855/0, 2-12=0/461, 3-12=-468/0, 7-9=0/725, 5-9=-652/0, 5-10=0/506

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
  - 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.
  - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
  - CAUTION, Do not erect truss backwards.



October 29,2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road  
Edenton, NC 27932

Job PRINCINGFLOOR	Truss F23	Truss Type ROOF TRUSS	Qty 3	Ply 1	McKee-Clark II	I42805327
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:25:01 2020 Page 1

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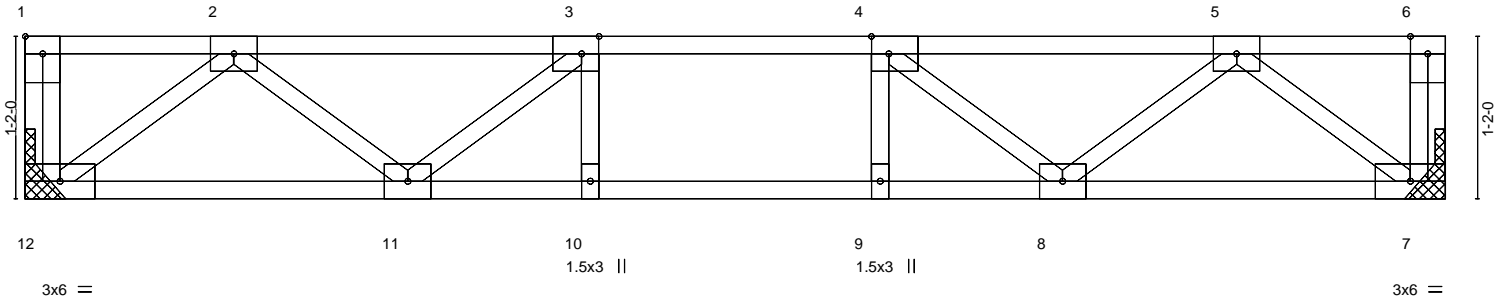


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [3:0-1-8,Edge], [4:0-1-8,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.32	Vert(LL) -0.06	8-9	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.57	Vert(CT) -0.08	10	>999	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.02	7	n/a	n/a		
BCDL 5.0	Code IRC2015/TP12014	Matrix-S						
							Weight: 52 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) 12=Mechanical, 7=Mechanical  
Max Grav 12=548(LC 1), 7=548(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-982/0, 3-4=-1291/0, 4-5=-982/0  
BOT CHORD 11-12=0/659, 10-11=0/1291, 9-10=0/1291, 8-9=0/1291, 7-8=0/659  
WEBS 5-7=-826/0, 2-12=-826/0, 5-8=0/421, 2-11=0/421, 4-8=-433/0, 3-11=-433/0

- 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.



September 15, 2020

Job PRICINGFLOOR	Truss F24	Truss Type ROOF TRUSS	Qty 1	Ply 1	McKee-Clark II	I42805328
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:25:02 2020 Page 1  
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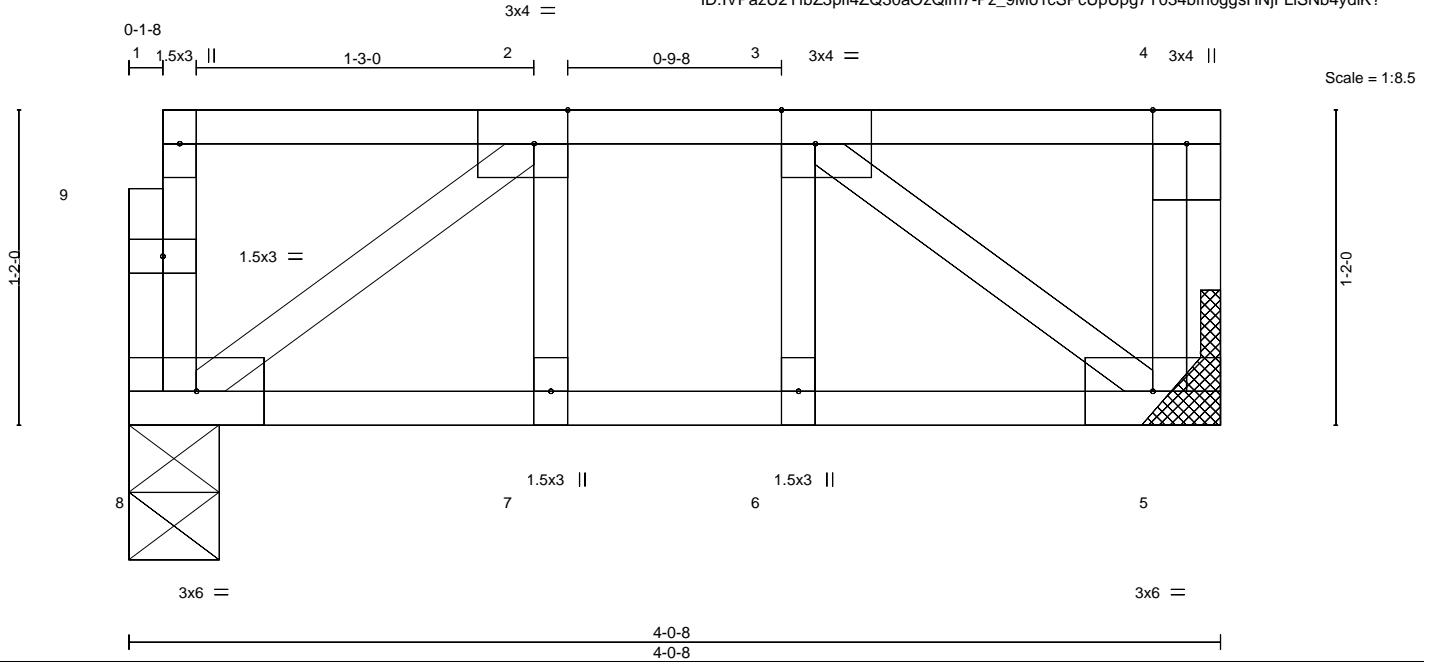


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.13	Vert(LL) -0.00	6	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.09	Vert(CT) -0.00	6	>999	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00	5	n/a	n/a		
BCDL 5.0	Code IRC2015/TP12014	Matrix-S					Weight: 24 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)

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

**REACTIONS.** (size) 8=0-4-0, 5=Mechanical  
 Max Grav 8=202(LC 1), 5=208(LC 1)

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

- 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 15, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



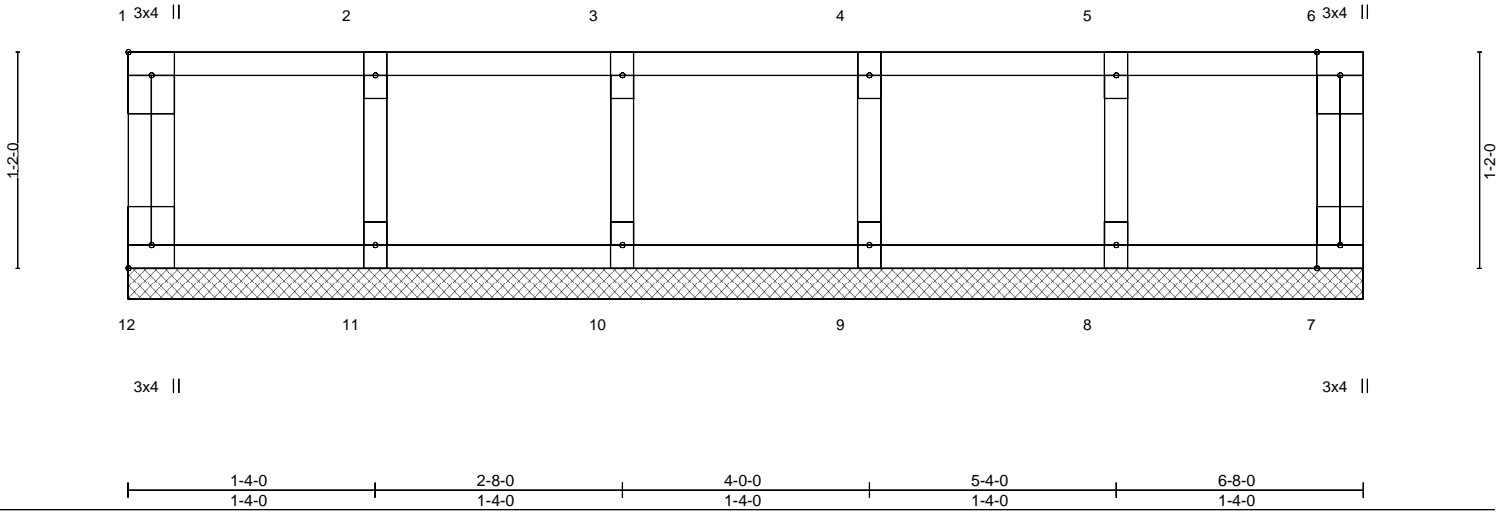
818 Soundside Road  
 Edenton, NC 27932

Job PRINCINGFLOOR	Truss F25	Truss Type GABLE	Qty 1	Ply 1	McKee-Clark II Job Reference (optional)	I42805329
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Sep 14 13:25:03 2020 Page 1  
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Scale = 1:12.4



LOADING (psf)	SPACING-	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	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr NO	WB 0.03	Horz(CT)	0.00	7	n/a		
BCDL 5.0	Code IRC2015/TP12014	Matrix-R						
							Weight: 31 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 6-8-0.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

**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.

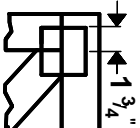


September 15, 2020

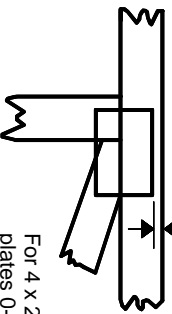


# Symbols

## PLATE LOCATION AND ORIENTATION



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



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



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

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

## PLATE SIZE

4 X 4

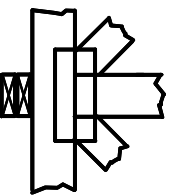
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



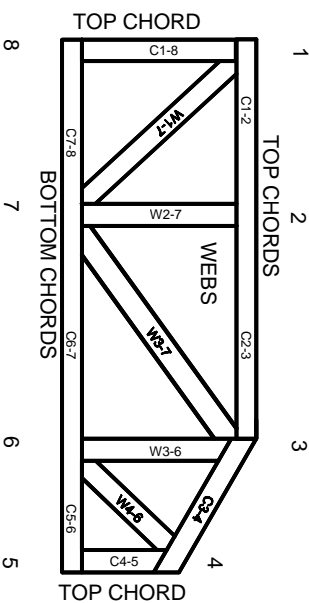
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8  
dimensions shown in ft-in-sixteenths  
(Drawings not to scale)



**JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.**

**CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.**

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988  
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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Mittek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020



# General Safety Notes

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

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T or I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.