

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: AC1071
MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY

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: I44752180 thru I44752195

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



February 11,2021

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 AC1071	Truss F01G	Truss Type FLOOR	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY 144752180 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 11:33:49 2021 Page 1
ID:k94JPo7iWluMkCvDI4nTp4zmaAt-j8B1VDG9B_CwgVvLp0gzAMdS3HZAE86KAF0ZA5zmYo0

0-1-8

0-1-8

Scale = 1:35.1

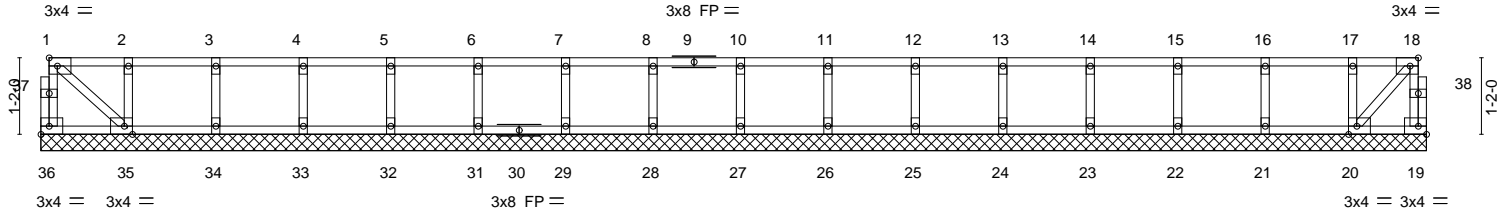


Plate Offsets (X,Y)--	[18:0-1-8,Edge], [20:0-1-8,Edge], [35:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.09	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	WB 0.03	Horz(CT) -0.00 20 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 92 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 35-36,19-20.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 21-1-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 19, 36, 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.



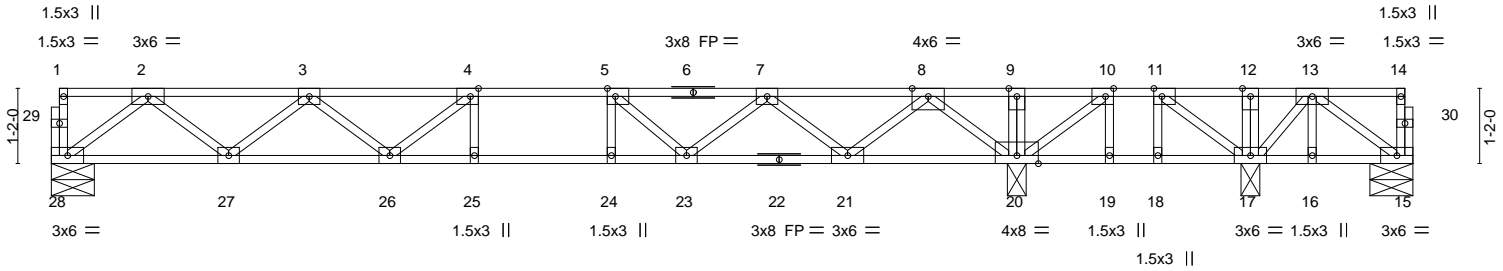
February 11, 2021

<p>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</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job AC1071	Truss F02	Truss Type FLOOR	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY 144752181
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 11:33:50 2021 Page 1
ID:k94JPo7tWluMkCvDI4nTp4zmaAt-CKIPjZHnylKnlfUYNkBCiZ9VdhhzNUQTOvm7jXzmYo?



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

	14-11-12	18-7-4	21-1-8
	14-11-12	3-7-8	2-6-4
Plate Offsets (X, Y)--	[4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]		

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.61	Vert(LL)	-0.16	25-26	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.87	Vert(CT)	-0.22	25-26	>806		
BCLL 0.0	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.03	20	n/a		
BCDL 5.0	Code IRC2015/TP12014		Matrix-S						
								Weight: 111 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
15-22: 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 0-8-0 except (jt=length) 20=0-3-8, 17=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 15=247(LC 3)
Max Grav All reactions 250 lb or less at joint(s) 15 except 28=716(LC 14), 20=1319(LC 3), 17=425(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1429/0, 3-4=-2130/0, 4-5=-2207/0, 5-7=-1725/0, 7-8=-561/0, 8-9=0/1367,
9-10=0/1367, 10-11=0/938, 11-12=0/657, 12-13=0/655
BOT CHORD 27-28=0/877, 26-27=0/1954, 25-26=0/2207, 24-25=0/2207, 23-24=0/2207, 21-23=0/1281,
20-21=-356/0, 19-20=-938/0, 18-19=-938/0, 17-18=-938/0, 16-17=-367/0, 15-16=-367/0
WEBS 2-28=-1097/0, 2-27=0/718, 3-27=-685/0, 3-26=0/285, 4-26=-286/75, 8-20=-1425/0,
8-21=0/997, 7-21=-943/0, 7-23=0/584, 5-23=-692/0, 11-17=-82/423, 10-20=-645/0,
13-15=0/455, 13-17=-476/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 247 lb uplift at joint 15.
 - 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.



February 11, 2021

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



818 Soundside Road
Edenton, NC 27932

Job AC1071	Truss F03	Truss Type FLOOR	Qty 4	Ply 1	MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY 144752182
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 11:33:52 2021 Page 1
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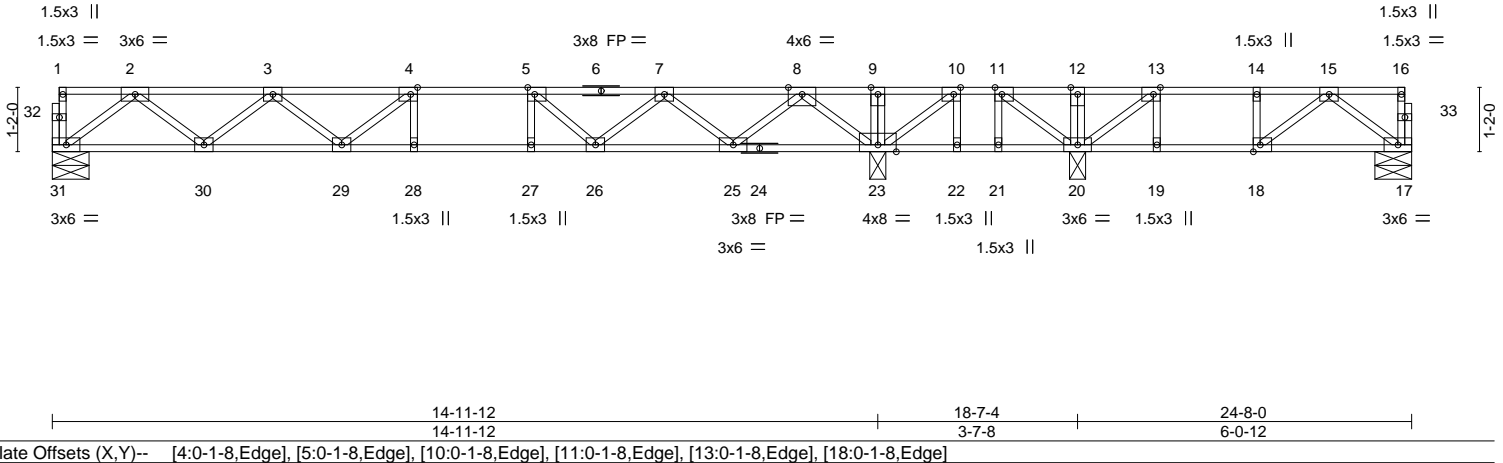


Plate Offsets (X,Y)--	[4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [13:0-1-8,Edge], [18:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.72	Vert(LL) -0.16 28-29 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.86	Vert(CT) -0.22 28-29 >807 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.03 17 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 126 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat) *Except* 17-24: 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. All bearings 0-8-0 except (jt=length) 23=0-3-8, 20=0-3-8.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) except 31=728(LC 14), 23=1440(LC 16), 17=335(LC 4), 20=395(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1457/0, 3-4=-2186/0, 4-5=-2289/0, 5-7=-1831/0, 7-8=-696/0, 8-9=0/1244, 9-10=0/1244, 10-11=-61/585, 13-14=-477/0, 14-15=-477/0
 BOT CHORD 30-31=0/892, 29-30=0/1995, 28-29=0/2289, 27-28=0/2289, 26-27=0/2289, 25-26=0/1403, 22-23=-585/61, 21-22=-585/61, 20-21=-585/61, 19-20=0/477, 18-19=0/477, 17-18=0/356
 WEBS 2-31=-1116/0, 2-30=0/735, 3-30=-700/0, 3-29=0/304, 4-29=-317/54, 8-23=-1417/0, 8-25=0/986, 7-25=-929/0, 7-26=0/566, 5-26=-673/0, 11-20=-1/661, 10-23=-947/0, 15-17=-443/0, 13-20=-535/0

- 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.



February 11, 2021

Job AC1071	Truss F04	Truss Type FLOOR	Qty 2	Ply 1	MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY 144752183
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 11:33:54 2021 Page 1
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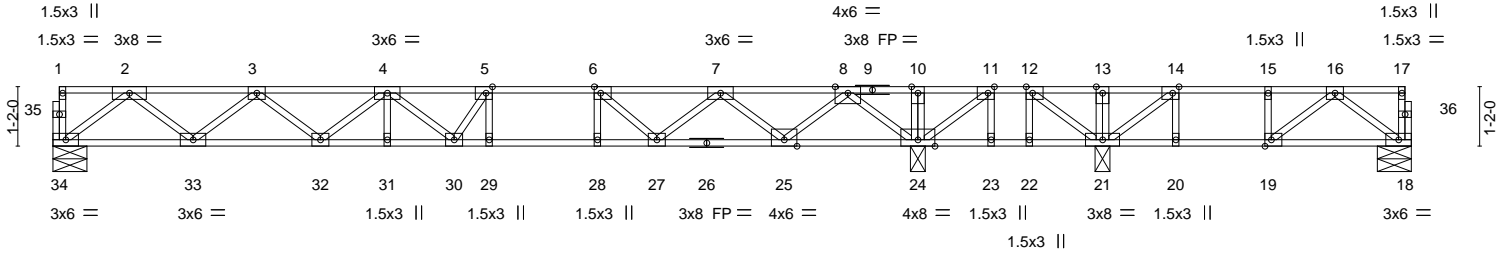


Plate Offsets (X,Y)--	[5:0-1-8,Edge], [6:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [14:0-1-8,Edge], [19:0-1-8,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.92	Vert(LL)	-0.26	29-30	>778	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.88	Vert(CT)	-0.36	29-30	>565		
BCLL 0.0	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.04	24	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 137 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 SS(flat) *Except* 18-26: 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. All bearings 0-8-0 except (jt=length) 24=0-3-8, 21=0-3-8.
 (lb) - Max Uplift All uplift 100 lb or less at joint(s) 21
 Max Grav All reactions 250 lb or less at joint(s) except 34=825(LC 14), 24=1651(LC 16), 18=332(LC 4), 21=375(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1698/0, 3-4=-2669/0, 4-5=-2969/0, 5-6=-2769/0, 6-7=-2067/0, 7-8=-636/0, 8-10=0/1620, 10-11=0/1620, 11-12=-2/802, 12-13=-86/254, 13-14=-86/254, 14-15=-466/36, 15-16=-466/36
 BOT CHORD 33-34=0/1025, 32-33=0/2336, 31-32=0/2988, 30-31=0/2988, 29-30=0/2769, 28-29=0/2769, 27-28=0/2769, 25-27=0/1475, 24-25=-326/0, 23-24=-802/2, 22-23=-802/2, 21-22=-802/2, 20-21=-36/466, 19-20=-36/466, 18-19=0/351
 WEBS 8-24=-1633/0, 8-25=0/1171, 7-25=-1101/0, 7-27=0/778, 6-27=-979/0, 6-28=0/380, 5-29=-507/0, 2-34=-1283/0, 2-33=0/875, 3-33=-831/0, 3-32=0/433, 4-32=-407/0, 12-21=0/853, 11-24=-1143/0, 11-23=0/285, 12-22=-267/0, 16-18=-437/0, 14-21=-562/0, 5-30=-113/543

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21.
 - 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.



February 11, 2021

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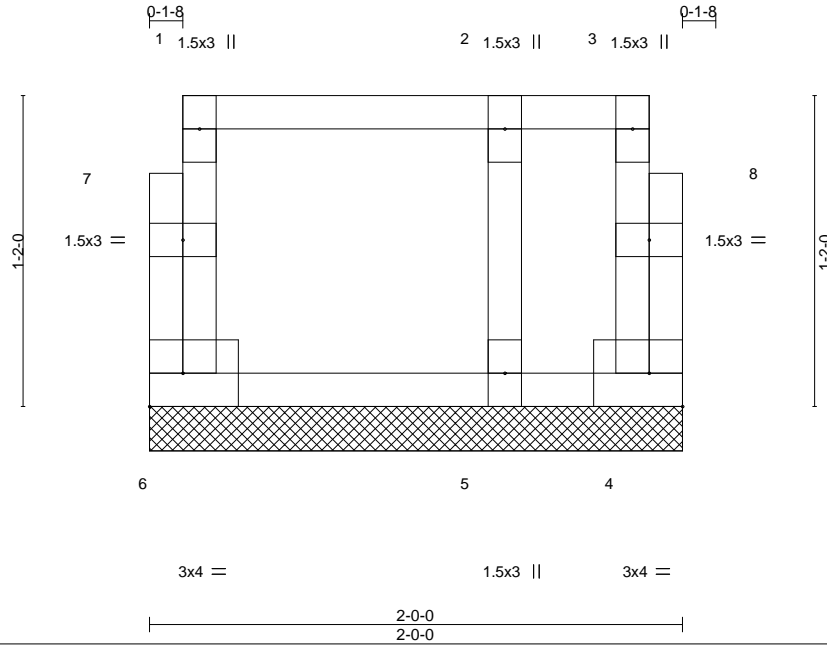
Job AC1071	Truss F05G	Truss Type FLOOR	Qty 2	Ply 1	MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY 144752184
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 11:33:55 2021 Page 1

ID:k94JPo7tWluMkCvD4nTp4zmaAt-YIYImHLwnqy3OQNVAHnNPdtV1icl2slCYBTuNlzmYnw



Scale = 1:8.6

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 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.00	4	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 12 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 2-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=2-0-0, 4=2-0-0, 5=2-0-0
 Max Grav 6=60(LC 1), 4=22(LC 1), 5=98(LC 1)

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

NOTES-

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.



February 11, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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818 Soundside Road
 Edenton, NC 27932

Job AC1071	Truss F06	Truss Type FLOOR	Qty 2	Ply 1	MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY 144752185 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 11:33:57 2021 Page 1
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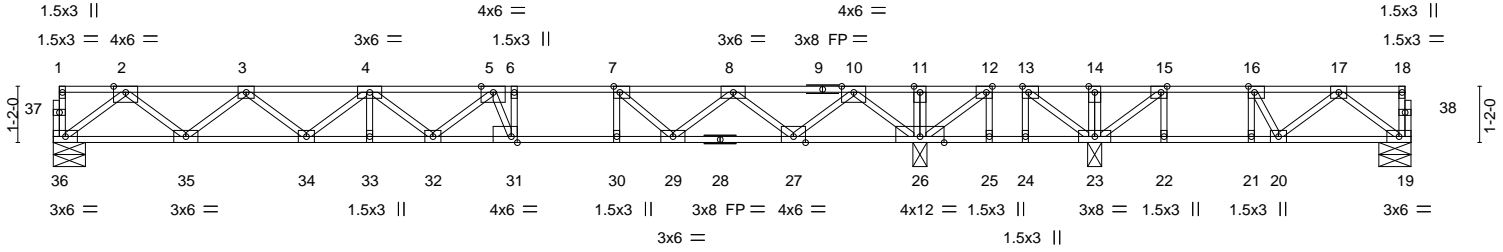


Plate Offsets (X,Y)--	[7:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [15:0-1-8,Edge], [16:0-1-8,Edge], [31:0-1-8,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.98	Vert(LL)	-0.30 31-32	>712	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.80	Vert(CT)	-0.41 31-32	>517	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.05 26	n/a	n/a		
BCDL 5.0	Code IRC2015/TP12014		Matrix-S						

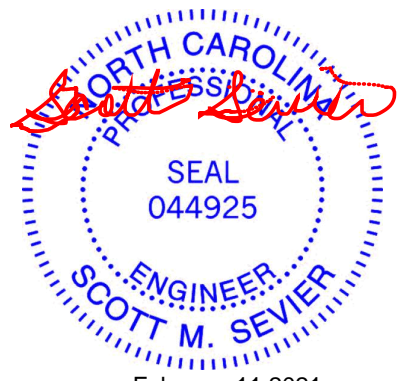
Weight: 145 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP SS(flat) *Except* 9-18: 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 1-4-12 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat) *Except* 19-28: 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. All bearings 0-8-0 except (jt=length) 26=0-3-8, 23=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 23
Max Grav All reactions 250 lb or less at joint(s) except 36=878(LC 14), 26=1727(LC 16), 23=392(LC 4), 19=360(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1832/0, 3-4=-2929/0, 4-5=-3402/0, 5-6=-3035/0, 6-7=-3035/0, 7-8=-2241/0, 8-10=-652/0, 10-11=0/1752, 11-12=0/1752, 12-13=0/884, 13-14=-93/335, 14-15=-93/335, 15-16=-530/88, 16-17=-539/4
BOT CHORD 35-36=0/1094, 34-35=0/2536, 33-34=0/3303, 32-33=0/3303, 31-32=0/3315, 30-31=0/3035, 29-30=0/3035, 27-29=0/1553, 26-27=-383/0, 25-26=-884/0, 24-25=-884/0, 23-24=-884/0, 22-23=-88/530, 21-22=-88/530, 20-21=-88/530, 19-20=0/410
WEBS 10-26=-1727/0, 10-27=0/1253, 8-27=-1183/0, 8-29=0/904, 7-29=-1090/0, 7-30=0/350, 6-31=-56/562, 2-36=-1370/0, 2-35=0/960, 3-35=-917/0, 3-34=0/511, 4-34=-478/0, 13-23=0/895, 12-26=-1186/0, 12-25=0/297, 13-24=-275/0, 15-23=-647/0, 17-19=-512/0, 5-31=-896/43

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23.
 - 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.

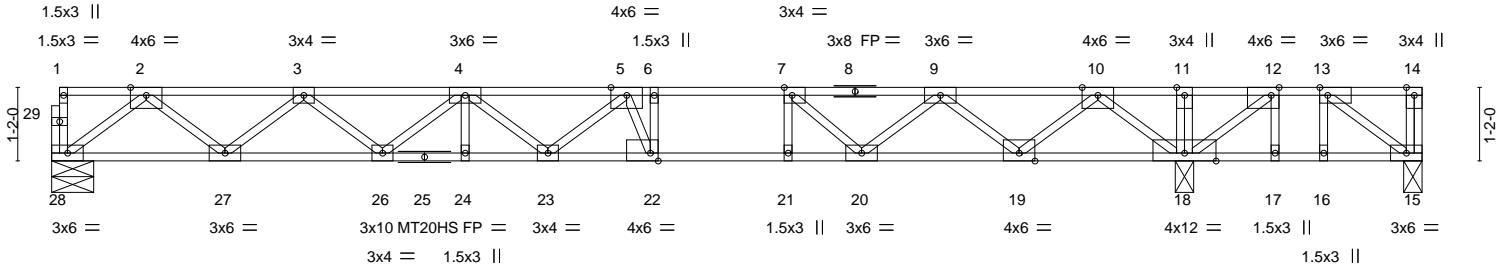
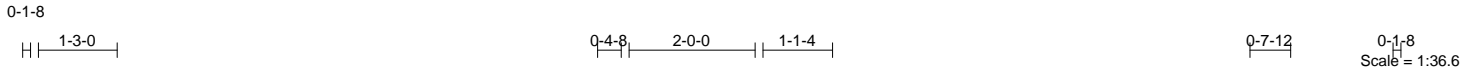


February 11, 2021

Job AC1071	Truss F07	Truss Type FLOOR	Qty 3	Ply 1	MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY 144752186 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 11:33:58 2021 Page 1
ID:k94JPo7tWluMkCvDI4nTp4zmaAt-ztEQOInp4lKeFu54rPK41FVquwP6F3TFE8iY_3zmYnt



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

Plate Offsets (X,Y)--	[7:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [22:0-1-8,Edge]
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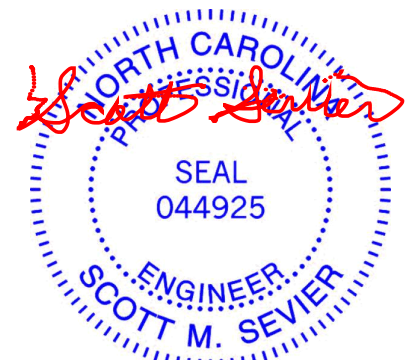
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.79	Vert(LL)	-0.31 22-23	>702	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.92	Vert(CT)	-0.42 22-23	>510	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.05 18	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 113 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP SS(flat) *Except* 8-14: 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat) *Except* 15-25: 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 28=0-8-0, 15=0-3-8, 18=0-3-8
Max Uplift 15=450(LC 3)
Max Grav 28=874(LC 10), 15=60(LC 4), 18=1793(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1822/0, 3-4=-2911/0, 4-5=-3375/0, 5-6=-2997/0, 6-7=-2997/0, 7-9=-2195/0,
9-10=-601/0, 10-11=0/1805, 11-12=0/1805, 12-13=0/827
BOT CHORD 27-28=0/1089, 26-27=0/2522, 24-26=0/3279, 23-24=0/3279, 22-23=0/3282, 21-22=0/2997,
20-21=0/2997, 19-20=0/1504, 18-19=-425/0, 17-18=-827/0, 16-17=-827/0,
15-16=-827/0
WEBS 10-18=-1742/0, 10-19=0/1257, 9-19=-1184/0, 9-20=0/907, 7-20=-1101/0, 7-21=0/356,
6-22=-50/569, 2-28=-1363/0, 2-27=0/954, 3-27=-911/0, 3-26=0/506, 4-26=-470/0,
13-15=0/1021, 12-18=-1328/0, 12-17=0/372, 13-16=-342/0, 5-22=-909/33

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=450.
 - 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.

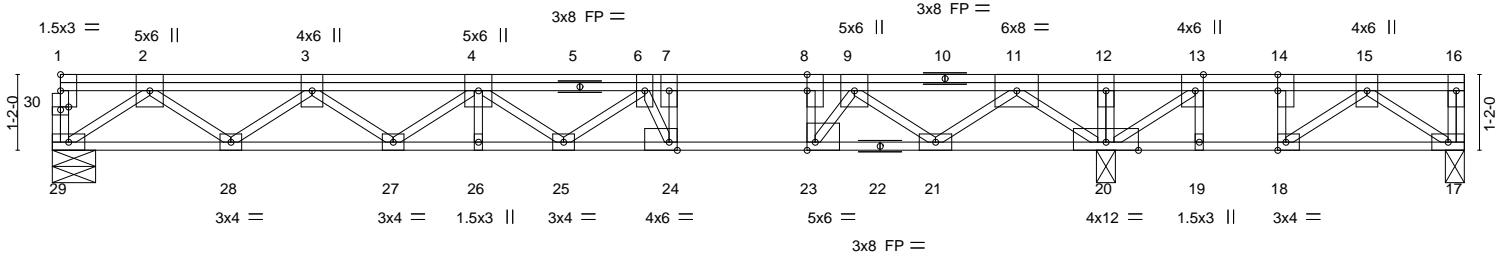
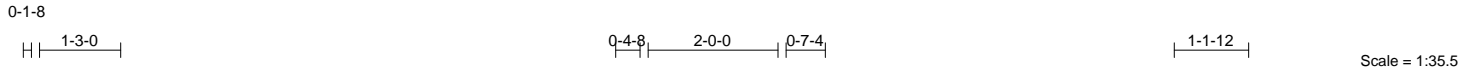


February 11, 2021

<p>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</p>	 818 Soundside Road Edenton, NC 27932
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Job AC1071	Truss F08	Truss Type FLOOR	Qty 2	Ply 1	MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY 144752187
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 11:33:59 2021 Page 1
 ID:k94JPo7WluMkCvDI4nTp4zmaAt-R3opceORr3SVt2gGP6rJaT102Jo9_VVoToR5VWzmYns



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

	16-2-12	21-9-0
	16-2-12	5-6-4
Plate Offsets (X,Y)--	[8:0-3-0,0-0-0], [13:0-3-0,Edge], [14:0-3-0,0-0-0], [18:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1-8,Edge], [30:0-1-8,0-0-8]	

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 0.76	Vert(LL)	-0.18 24-25	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.74	Vert(CT)	-0.25 24-25	>760	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.04 20	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 141 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) *Except* 22-29: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 29=0-8-0, 17=0-3-8, 20=0-3-8
 Max Uplift 17=-224(LC 3)
 Max Grav 29=779(LC 10), 17=212(LC 4), 20=1593(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1669/0, 3-4=-2581/0, 4-6=-2790/0, 6-7=-2161/0, 7-8=-2161/0, 8-9=-2161/0,
 9-11=-538/0, 11-12=0/1693, 12-13=0/1693, 13-14=-88/923, 14-15=-88/923
 BOT CHORD 28-29=0/1014, 27-28=0/2289, 26-27=0/2847, 25-26=0/2847, 24-25=0/2631, 23-24=0/2161,
 21-23=0/1429, 20-21=-415/0, 19-20=-923/88, 18-19=-923/88, 17-18=-315/211
 WEBS 2-29=-1241/0, 2-28=0/832, 3-28=-788/0, 3-27=0/370, 4-27=-333/0, 6-25=-48/256,
 6-24=-1256/0, 7-24=0/1060, 8-23=-1062/0, 11-20=-1614/0, 11-21=0/1113, 9-21=-1141/0,
 15-17=-259/387, 13-20=-1221/0, 15-18=-758/0, 14-18=0/428, 9-23=0/1420

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=224.
 - 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.



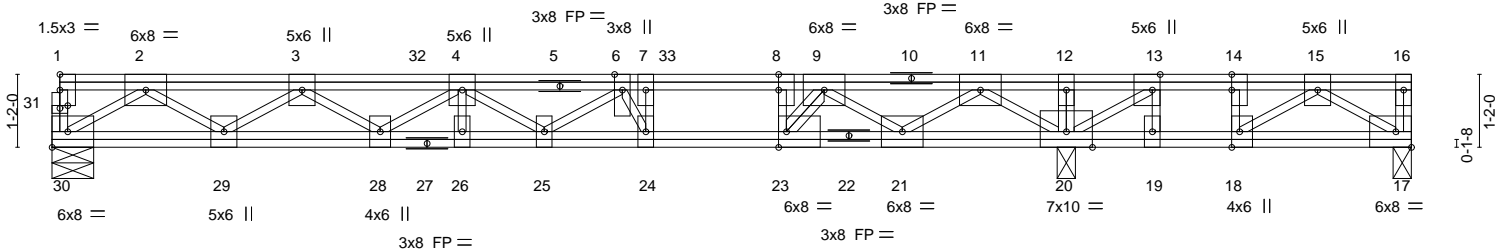
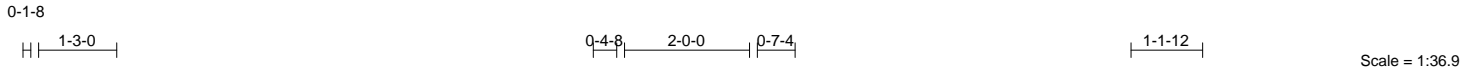
February 11, 2021

Job AC1071	Truss F08A	Truss Type FLOOR	Qty 3	Ply 1	MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY 144752188
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 11:34:01 2021 Page 1
ID:k94JPo7tWluMkCvDI4nTp4zmaAt-NSvZ1KPhNgjD6LqfWXunfuJ97SqSPI5w6wCaOzmYnq



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

	16-2-12	21-9-0
	16-2-12	5-6-4
Plate Offsets (X,Y)--	[8:0-3-0,0-0-0], [13:0-3-0,Edge], [14:0-3-0,0-0-0], [18:0-3-0,Edge], [23:0-1-8,Edge], [31:0-1-8,0-0-8]	

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 0.85	Vert(LL)	-0.20 24-25	>975	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.85	Vert(CT)	-0.27 24-25	>710	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.69	Horz(CT)	0.02 20	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 171 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) *Except* 22-30,17-27: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 30=0-8-0, 17=0-3-8, 20=0-3-8
Max Uplift 17=-311(LC 3)
Max Grav 30=960(LC 10), 17=188(LC 4), 20=1897(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2220/0, 3-4=-3689/0, 4-6=-4215/0, 6-7=-3105/0, 7-8=-3105/0, 8-9=-3105/0,
9-11=-617/0, 11-12=0/2233, 12-13=0/2233, 13-14=-9/1284, 14-15=-9/1284
BOT CHORD 29-30=0/1378, 28-29=0/3126, 26-28=0/4219, 25-26=0/4219, 24-25=0/3823, 23-24=0/3105,
21-23=0/2059, 20-21=-656/0, 19-20=-1284/9, 18-19=-1284/9, 17-18=-515/167
WEBS 2-30=-1606/0, 2-29=0/1048, 3-29=-1123/0, 3-28=0/699, 4-28=-646/0, 6-25=0/558,
6-24=-1758/0, 7-24=0/1127, 8-23=-1119/0, 11-20=-1970/0, 11-21=0/1454, 9-21=-1789/0,
15-17=-201/619, 13-20=-1427/0, 15-18=-938/0, 13-19=0/290, 14-18=0/347,
9-23=0/1933

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x6 MT20 unless otherwise indicated.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=311.
 - 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.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 17-30=-10, 1-32=-100, 32-33=-200, 16-33=-100



February 11, 2021

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

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

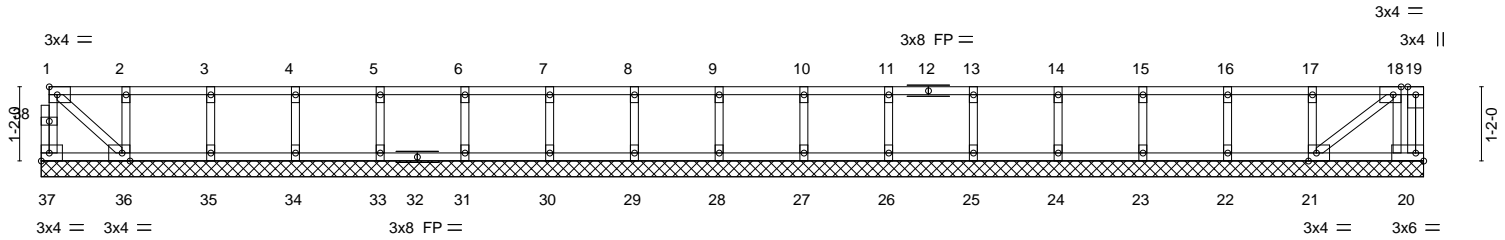
Job AC1071	Truss F09G	Truss Type GABLE	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY 144752189 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 11:34:03 2021 Page 1
ID:k94JPo7tWiuMkCvDI4nTp4zmaAtJr1JS0RxuHzxMf_1eywFkJCrUxKKWtZOOQPJfHzmYno

0-1-8

Scale = 1:36.3



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	21-4-0	21-9-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-5-0

Plate Offsets (X,Y)-- [18:0-1-8,Edge], [21:0-1-8,Edge], [36:0-1-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.09	Vert(LL)	n/a	-	n/a	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	21	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S					Weight: 96 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 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 36-37,20-21.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 21-9-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 37, 20, 36, 35, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21

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.



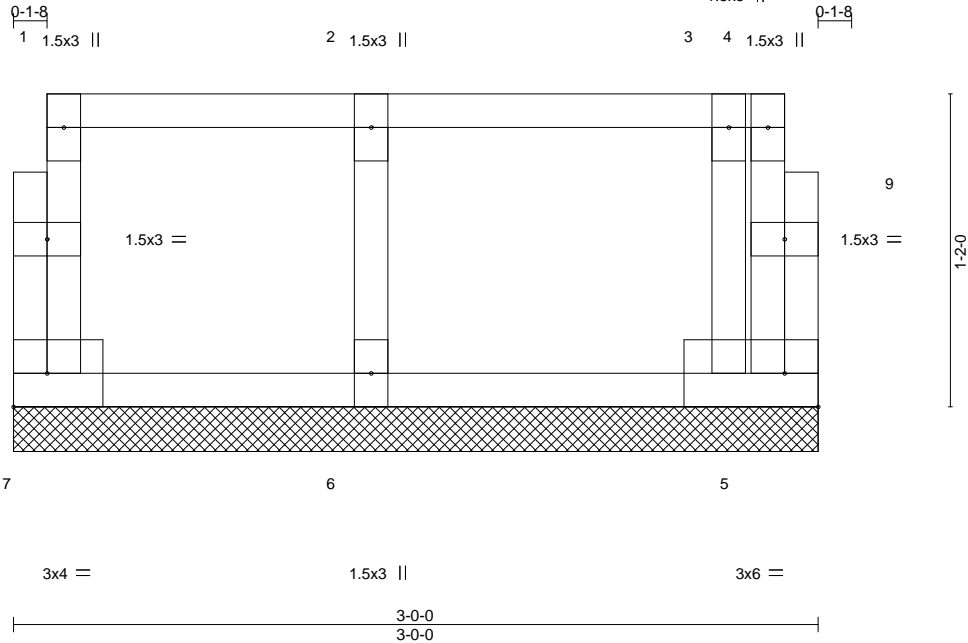
February 11, 2021

Job AC1071	Truss F10G	Truss Type FLOOR	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY I44752190
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 11:34:04 2021 Page 1
ID:k94JPo7WluMkCvDl4nTp4zmaAt-n1bifMSZfb5ozpZECgRUHWi0HKgMfwqXc49sBjzmYnn



Scale = 1:8.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Horz(CT)	0.00	5	n/a		
BCDL 5.0	Rep Stress Incr NO	Matrix-R					Weight: 16 lb	FT = 20%F, 11%E
	Code IRC2015/TPI2014							

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

REACTIONS. (size) 7=3-0-0, 5=3-0-0, 6=3-0-0
 Max Grav 7=60(LC 1), 5=81(LC 1), 6=148(LC 1)

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

NOTES-

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.



February 11, 2021

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



818 Soundside Road
 Edenton, NC 27932

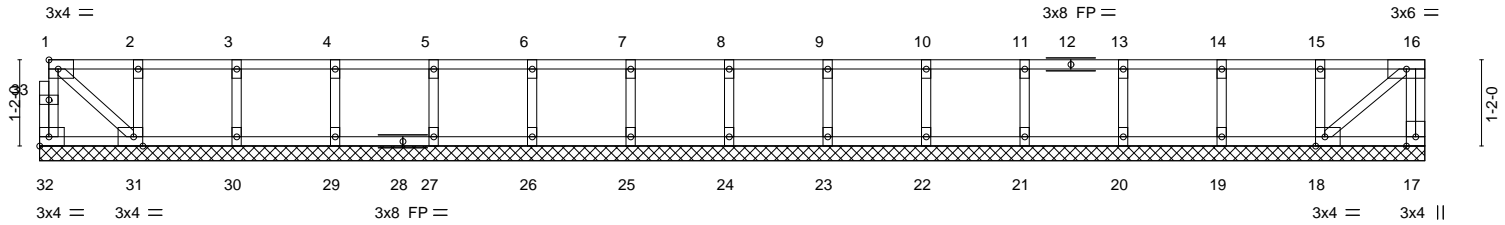
Job AC1071	Truss F11G	Truss Type GABLE	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY 144752191 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 11:34:05 2021 Page 1
ID:k94JPo7iWluMkCvDI4nTp4zmaAt-FD94shSCQvDebz8QINyjkHBpk0wON1hrkuQjAzMynm

0-1-8

Scale = 1:31.2



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	18-9-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-0

Plate Offsets (X,Y)-- [18:0-1-8,Edge], [31:0-1-8,Edge]													
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP				
TCLL 40.0	Plate Grip DOL	1.00	TC 0.10	Vert(LL)	n/a	-	n/a	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	17	n/a						
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 83 lb FT = 20%F, 11%E			

LUMBER-	BRACING-		
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.	
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 31-32,17-18.	
WEBS 2x4 SP No.3(flat)			
OTHERS 2x4 SP No.3(flat)			

REACTIONS. All bearings 18-9-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

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



February 11, 2021

Job AC1071	Truss F13	Truss Type FLOOR	Qty 3	Ply 1	MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY 144752193 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 11:34:07 2021 Page 1
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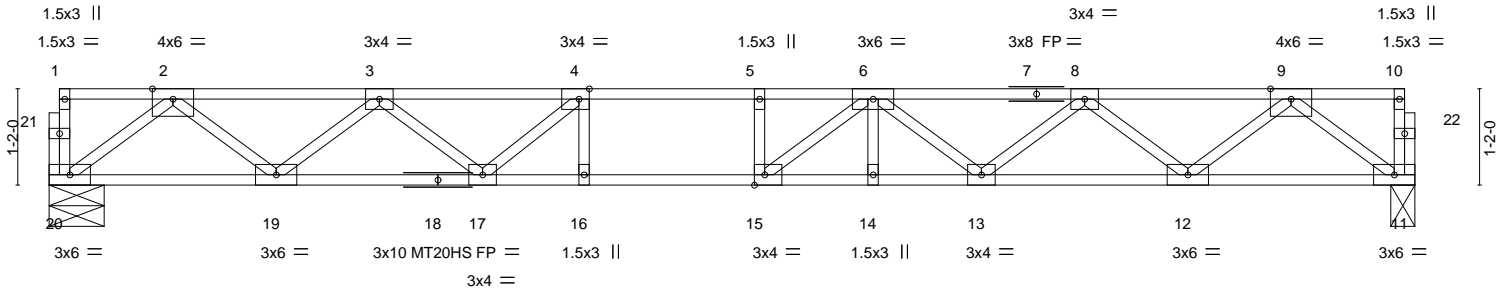
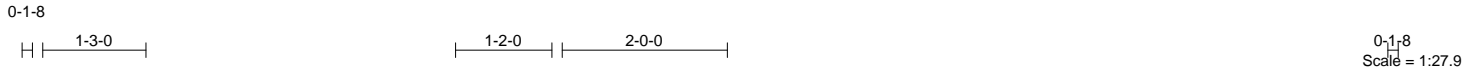


Plate Offsets (X,Y)--	[4:0-1-8,Edge], [15:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.70	Vert(LL) -0.25 15 >783 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 1.00	Vert(CT) -0.34 15 >568 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.06 11 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 83 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat) *Except* 11-18: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 20=0-8-0, 11=0-3-8
Max Grav 20=890(LC 1), 11=890(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1861/0, 3-4=-2988/0, 4-5=-3432/0, 5-6=-3432/0, 6-8=-2979/0, 8-9=-1863/0
BOT CHORD 19-20=0/1114, 17-19=0/2568, 16-17=0/3432, 15-16=0/3432, 14-15=0/3386, 13-14=0/3386,
12-13=0/2581, 11-12=0/1109
WEBS 9-11=-1389/0, 9-12=0/981, 8-12=-934/0, 8-13=0/518, 6-13=-520/0, 6-15=-276/493,
2-20=-1394/0, 2-19=0/973, 3-19=-921/0, 3-17=0/590, 4-17=-736/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates 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.



February 11, 2021

<p>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</p>	 818 Soundside Road Edenton, NC 27932
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Job AC1071	Truss F14G	Truss Type FLOOR	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY I44752194 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 11:34:07 2021 Page 1
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0₁-8

0₁-8

Scale = 1:18.0

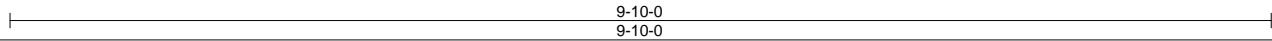
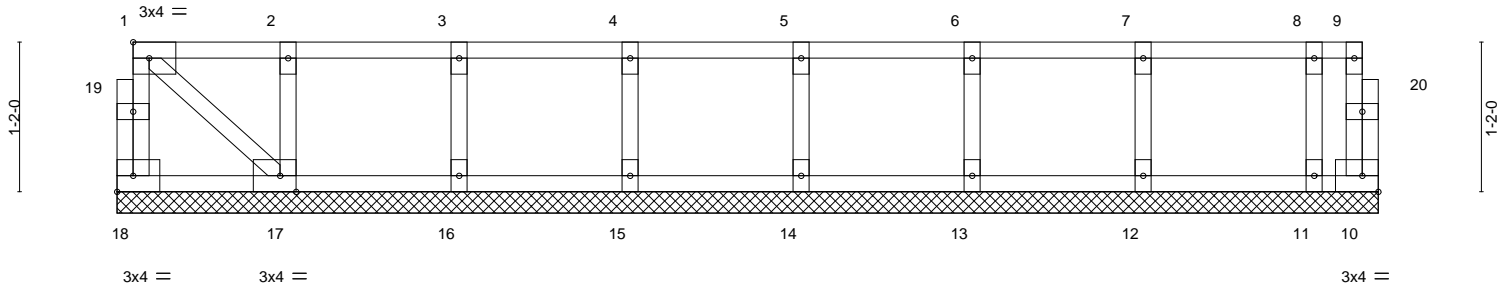


Plate Offsets (X,Y)-- [17:0-1-8,Edge]		9-10-0		9-10-0	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d
TCLL 40.0	Plate Grip DOL 1.00	TC 0.09	Vert(LL) n/a	-	n/a 999
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a	-	n/a 999
BCLL 0.0	Rep Stress Incr NO	WB 0.03	Horz(CT) -0.00	10	n/a n/a
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
					PLATES MT20
					GRIP 244/190
					Weight: 45 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 9-10-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 17-18.

REACTIONS. All bearings 9-10-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 10
Max Grav All reactions 250 lb or less at joint(s) 18, 17, 16, 15, 14, 13, 12, 11

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



February 11, 2021

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



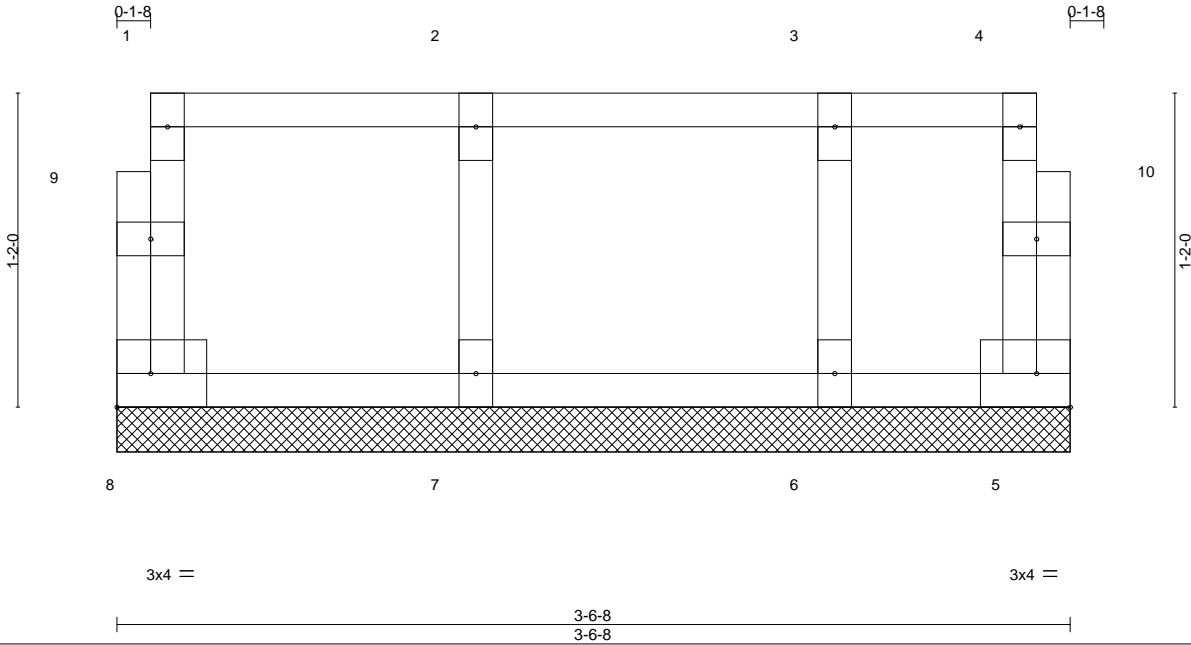
818 Soundside Road
Edenton, NC 27932

Job AC1071	Truss F15G	Truss Type FLOOR	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1071 ANDERSON CREEK ACADEMY 144752195 Job Reference (optional)
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 10 11:34:08 2021 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Horz(CT)	0.00	5	n/a		
BCDL 5.0	Rep Stress Incr NO	Matrix-R					Weight: 18 lb	FT = 20%F, 11%E
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 3-6-8 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 3-6-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

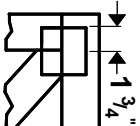
- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks,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



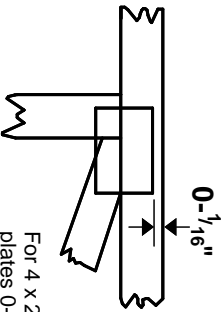
February 11, 2021

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 **MITek 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



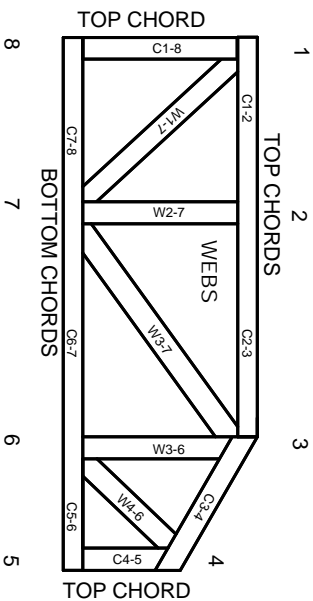
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: 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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-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 Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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. Rewriting pictures alone is not sufficient.
20. 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.