

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: AC1129
MCKEE/FINLEY; LOT 1129 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: I44651843 thru I44651864

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

North Carolina COA: C-0844



February 3, 2021

Johnson, Andrew

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 AC1129	Truss F01G	Truss Type FLOOR	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY 144651843
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 09:30:23 2021 Page 1
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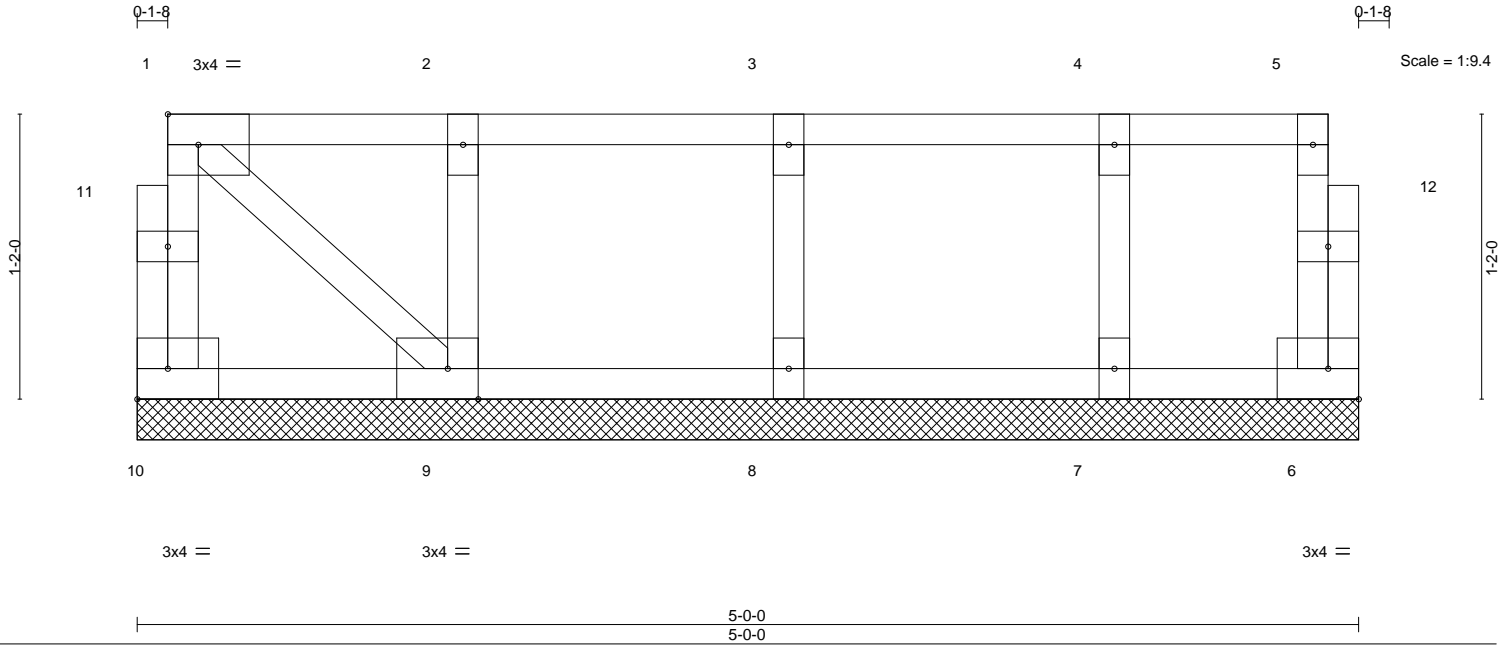


Plate Offsets (X,Y)--	[9:0-1-8,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-P							
									Weight: 26 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-0-0 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 5-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

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.



Job	Truss	Truss Type	Qty	Ply	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY	I44651844
AC1129	F02G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Apex, NC

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 12:42:41 2021 Page 1
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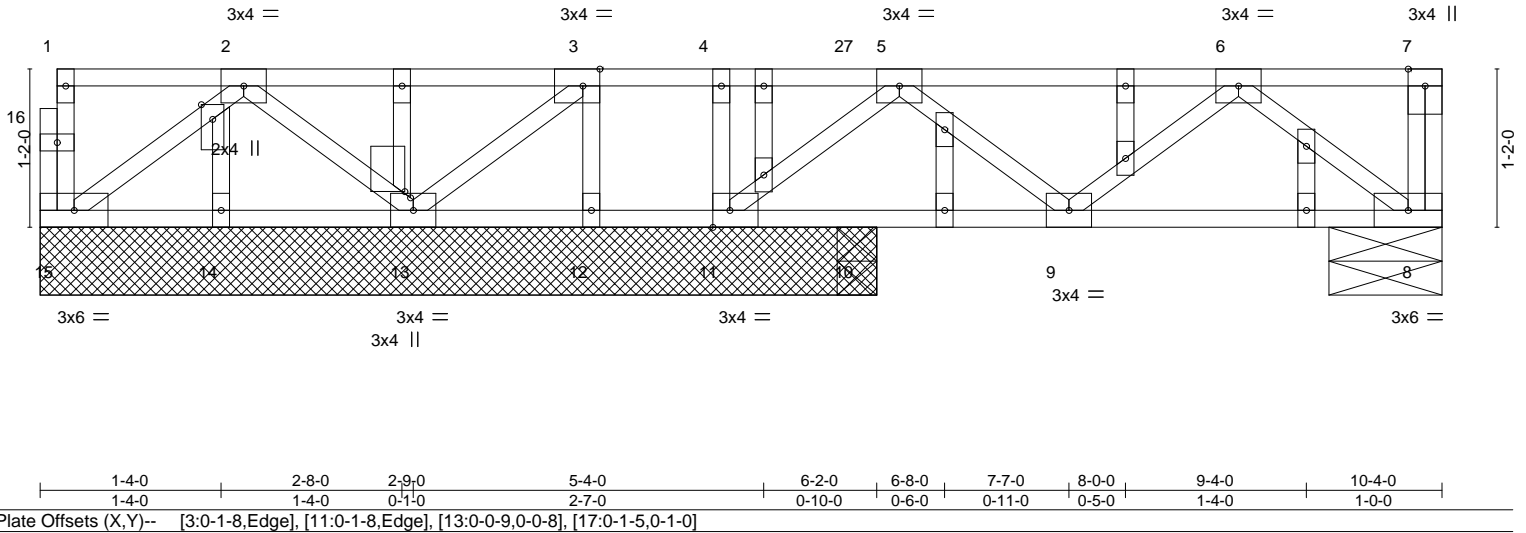


Plate Offsets (X,Y)--	[3:0-1-8,Edge], [11:0-1-8,Edge], [13:0-0-9,0-0-8], [17:0-1-5,0-1-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.29	Vert(LL) -0.00 9 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.12	Vert(CT) -0.01 8-9 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00 8 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 61 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)

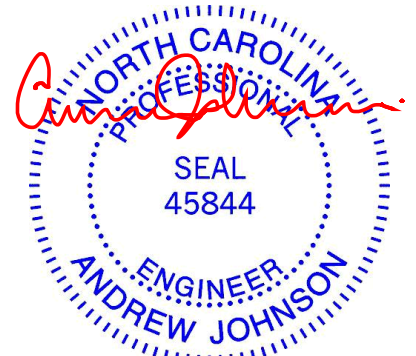
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 6-2-0 except (j=length) 8=0-10-0, 10=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 15, 13, 14, 10 except 8=258(LC 1), 11=302(LC 4), 12=261(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-255/0
BOT CHORD 8-9=0/275
WEBS 6-8=-345/0, 2-13=-251/0, 5-11=-423/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 3) Gable studs spaced at 1-4-0 oc.
 - 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.

LOAD CASE(S) Standard



February 3, 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 AC1129	Truss F03	Truss Type FLOOR	Qty 9	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44651845
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 09:30:26 2021 Page 1
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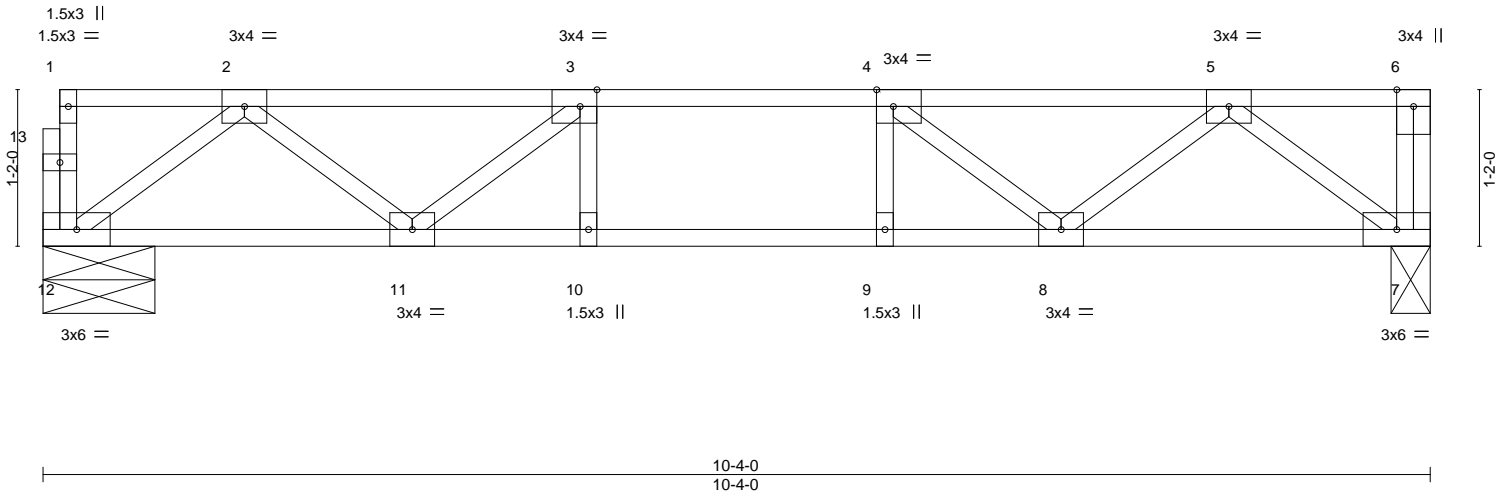
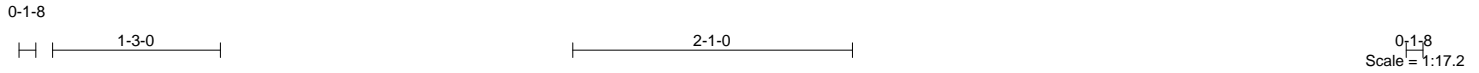


Plate Offsets (X,Y)--	[3:0-1-8,Edge], [4:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.32	Vert(LL) -0.07 10-11 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.59	Vert(CT) -0.08 10 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.02 7 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	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=0-10-0, 7=0-3-8
Max Grav 12=548(LC 1), 7=555(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1000/0, 3-4=-1319/0, 4-5=-1000/0
BOT CHORD 11-12=0/666, 10-11=0/1319, 9-10=0/1319, 8-9=0/1319, 7-8=0/667
WEBS 2-12=-833/0, 2-11=0/434, 3-11=-449/0, 5-7=-837/0, 5-8=0/434, 4-8=-449/0

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



Job AC1129	Truss F04	Truss Type FLOOR	Qty 2	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44651846
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 09:30:27 2021 Page 1

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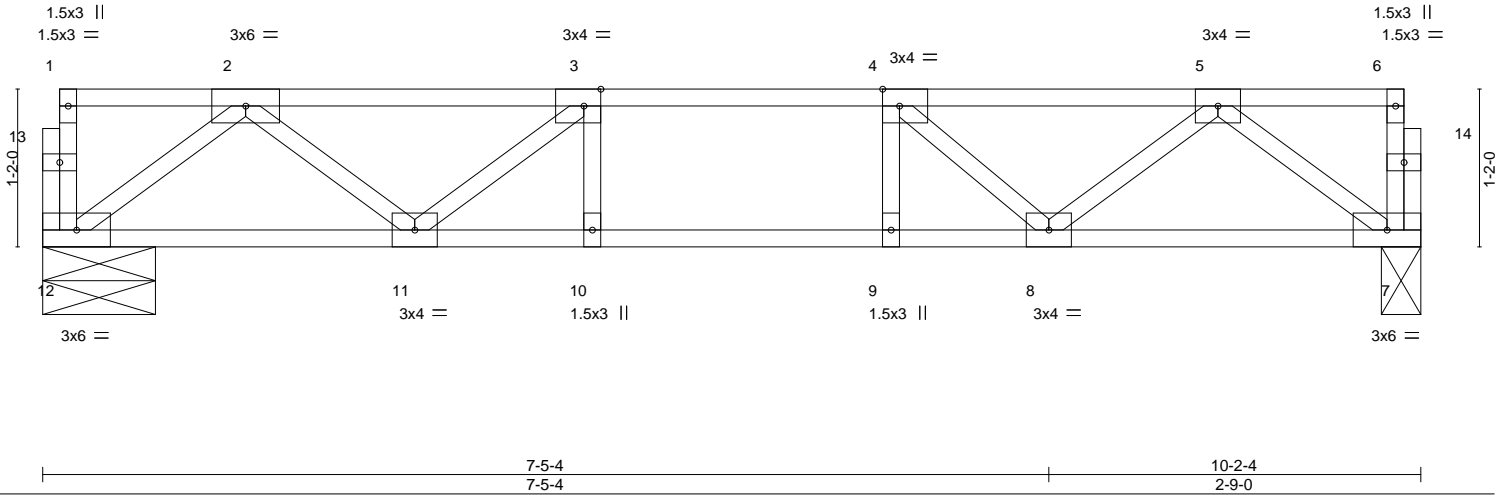
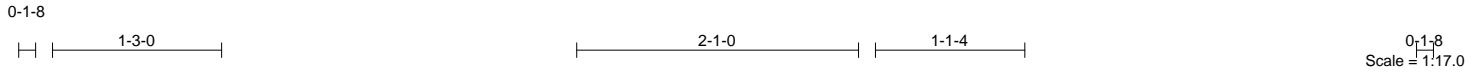


Plate Offsets (X,Y)--	[3:0-1-8,Edge], [4:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.56	Vert(LL) -0.09 10-11 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.85	Vert(CT) -0.10 10-11 >999 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.26	Horz(CT) 0.02 7 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 51 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=0-10-0, 7=0-3-8
Max Grav 12=688(LC 1), 7=688(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1244/0, 3-4=-1629/0, 4-5=-1251/0
BOT CHORD 11-12=0/839, 10-11=0/1629, 9-10=0/1629, 8-9=0/1629, 7-8=0/828
WEBS 2-12=-1050/0, 2-11=0/527, 3-11=-546/0, 5-7=-1035/0, 5-8=0/550, 4-8=-563/0

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

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-12=-10, 1-6=-130



February 3, 2021

Job AC1129	Truss F05	Truss Type FLOOR	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44651847
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 09:30:28 2021 Page 1
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0-1-8

1-3-0

2-0-0

0-4-0

0-1-8

Scale = 1:17.1

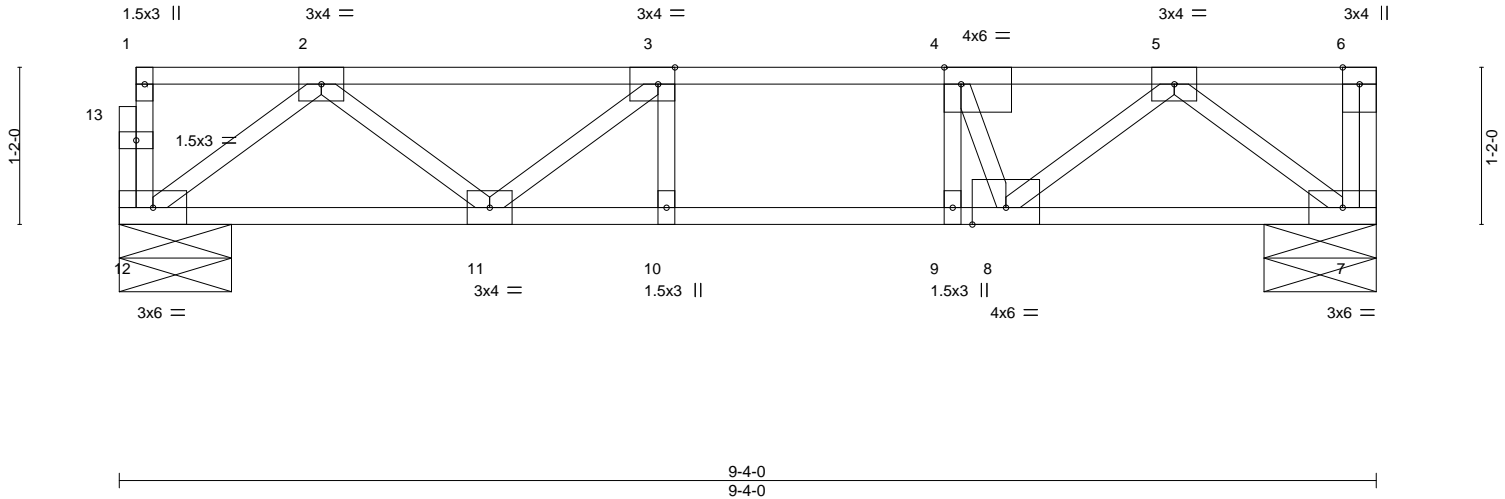


Plate Offsets (X, Y)--	[3:0-1-8, Edge], [4:0-1-8, Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.40	Vert(LL) -0.06 10-11 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.72	Vert(CT) -0.08 10-11 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.01 7 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 48 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) 12=0-10-0, 7=0-10-0
Max Grav 12=493(LC 1), 7=500(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-861/0, 3-4=-1058/0, 4-5=-914/0
BOT CHORD 11-12=0/603, 10-11=0/1058, 9-10=0/1058, 8-9=0/1058, 7-8=0/564
WEBS 2-12=-755/0, 2-11=0/335, 3-11=-301/0, 4-9=-53/261, 5-7=-708/0, 5-8=0/456, 4-8=-489/0

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



February 3, 2021

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818 Soundside Road
Edenton, NC 27932

Job AC1129	Truss F06G	Truss Type FLOOR	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44651848 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 3 09:30:28 2021 Page 1
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0-1-8

0-1-8

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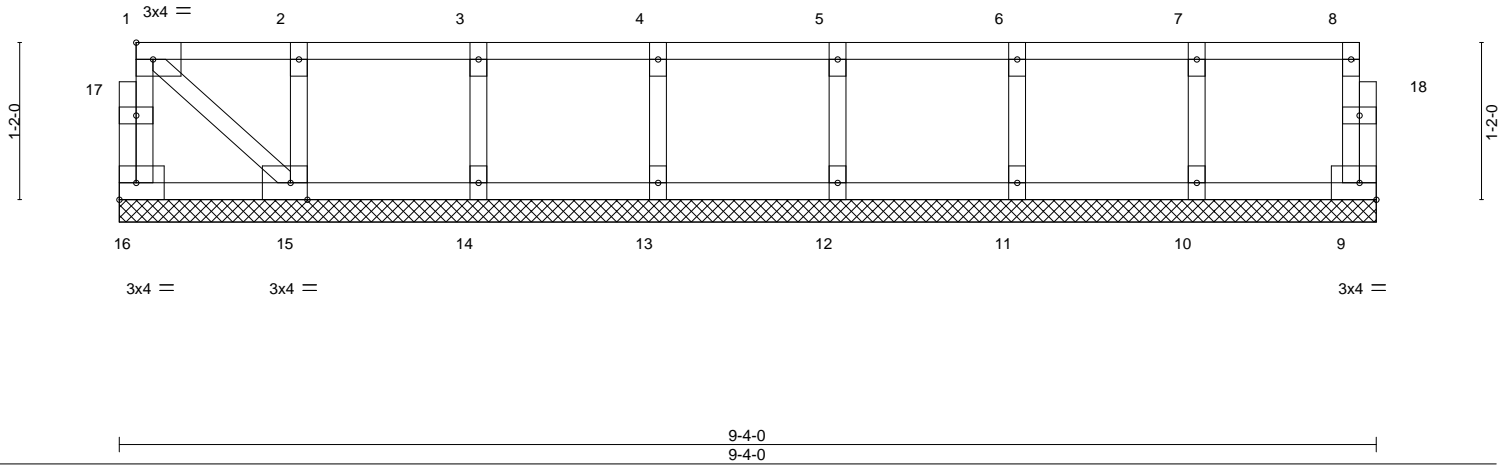


Plate Offsets (X,Y)--	[15:0-1-8,Edge]			9-4-0		9-4-0			
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00		TC 0.09	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00		BC 0.01	Vert(CT) n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr NO		WB 0.03	Horz(CT) 0.00	9	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 43 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 9-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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 3, 2021

Job	Truss	Truss Type	Qty	Ply	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY	I44651849
AC1129	F07G	GABLE	1	1	Job Reference (optional)	

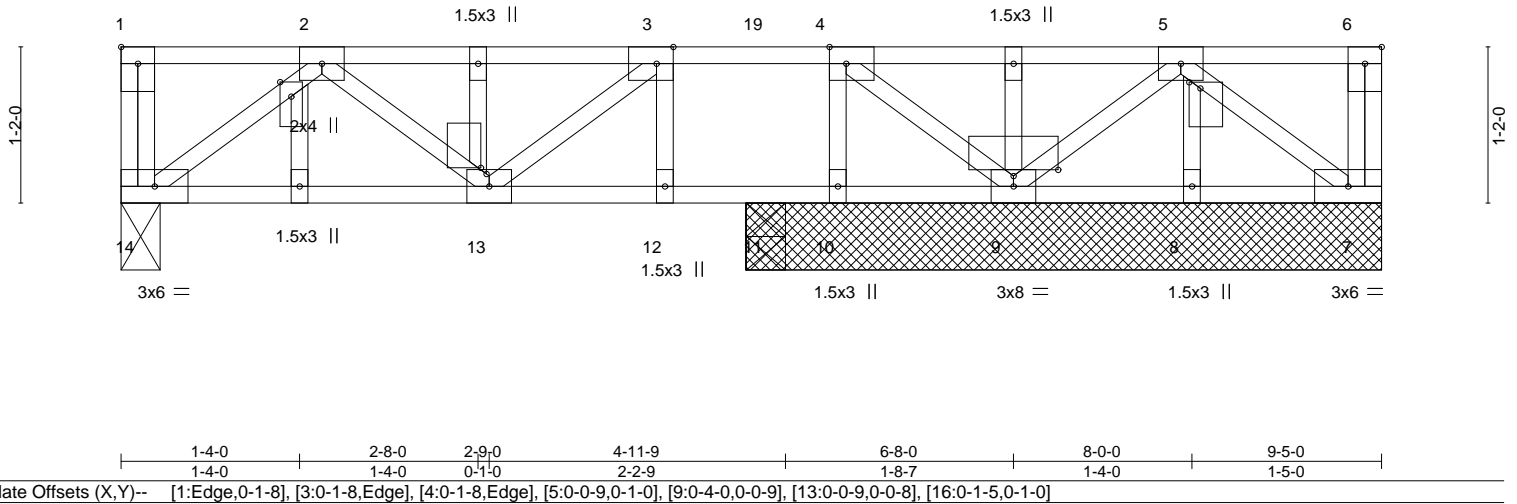
Builders FirstSource, Apex, NC

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 12:41:31 2021 Page 1
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0-1-8



0-1-8
Scale = 1:17.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.30	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.52	Vert(LL) -0.02 12-13 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.11	Vert(CT) -0.03 12-13 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 55 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 4-9-0 except (jt=length) 14=0-3-8, 11=0-3-8.
 (lb) - Max Uplift All uplift 100 lb or less at joint(s) except 10=273(LC 3)
 Max Grav All reactions 250 lb or less at joint(s) 7, 10, 8 except 14=317(LC 3), 9=291(LC 1), 11=350(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-406/0, 3-19=-348/0, 4-19=-348/0
 BOT CHORD 13-14=0/366, 12-13=0/348, 11-12=0/348, 10-11=0/348, 9-10=0/348
 WEBS 2-14=-459/0, 4-9=-295/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Gable studs spaced at 1-4-0 oc.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 273 lb uplift at joint 10.
 - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.

LOAD CASE(S) Standard



February 3, 2021

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818 Soundside Road
 Edenton, NC 27932

Job AC1129	Truss F08	Truss Type FLOOR	Qty 9	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44651850
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 09:30:30 2021 Page 1
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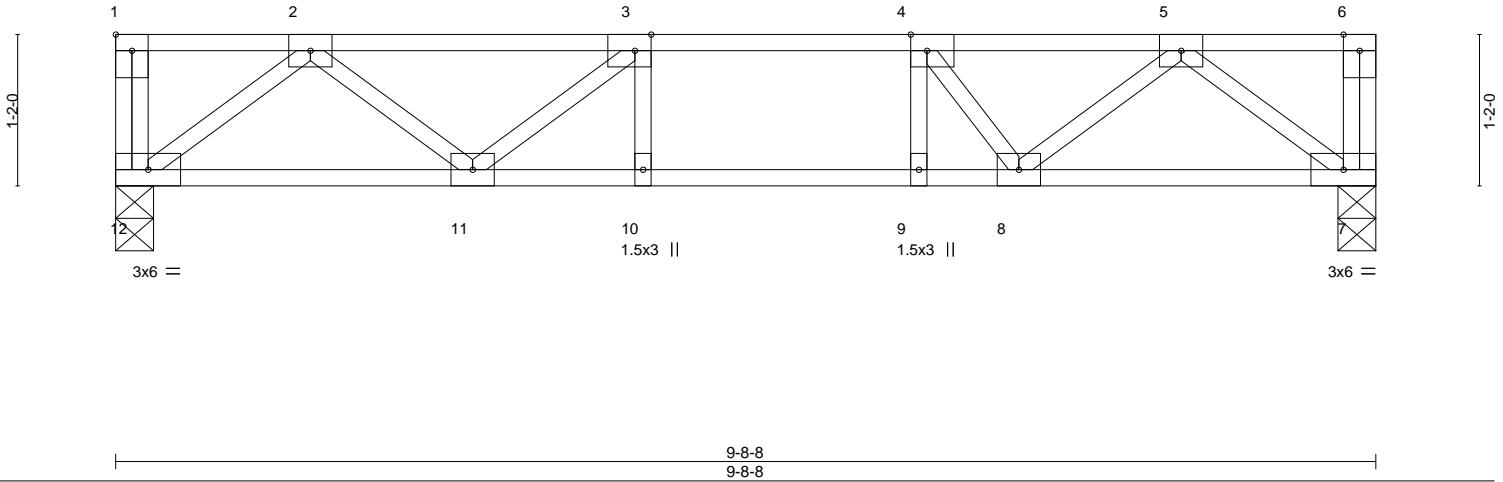


Plate Offsets (X, Y)--	[1:Edge,0-1-8], [3:0-1-8,Edge], [4:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.38	Vert(LL) -0.06 10-11 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.65	Vert(CT) -0.08 10-11 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.21	Horz(CT) 0.01 7 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				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)	

REACTIONS. (size) 12=0-3-8, 7=0-3-8
Max Grav 12=520(LC 1), 7=520(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-913/0, 3-4=-1155/0, 4-5=-938/0
BOT CHORD 11-12=0/628, 10-11=0/1155, 9-10=0/1155, 8-9=0/1155, 7-8=0/601
WEBS 2-12=-788/0, 2-11=0/371, 3-11=-355/0, 5-7=-753/0, 5-8=0/439, 4-8=-421/0

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



Job AC1129	Truss F09	Truss Type FLOOR	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY 144651851
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 09:30:31 2021 Page 1
ID:Jnu27T8aAaS2DQsg9LB7sjzj2p-glowZURrh7ihgojoWVRGBAE35Y1nd4S8SJRk40zouFc



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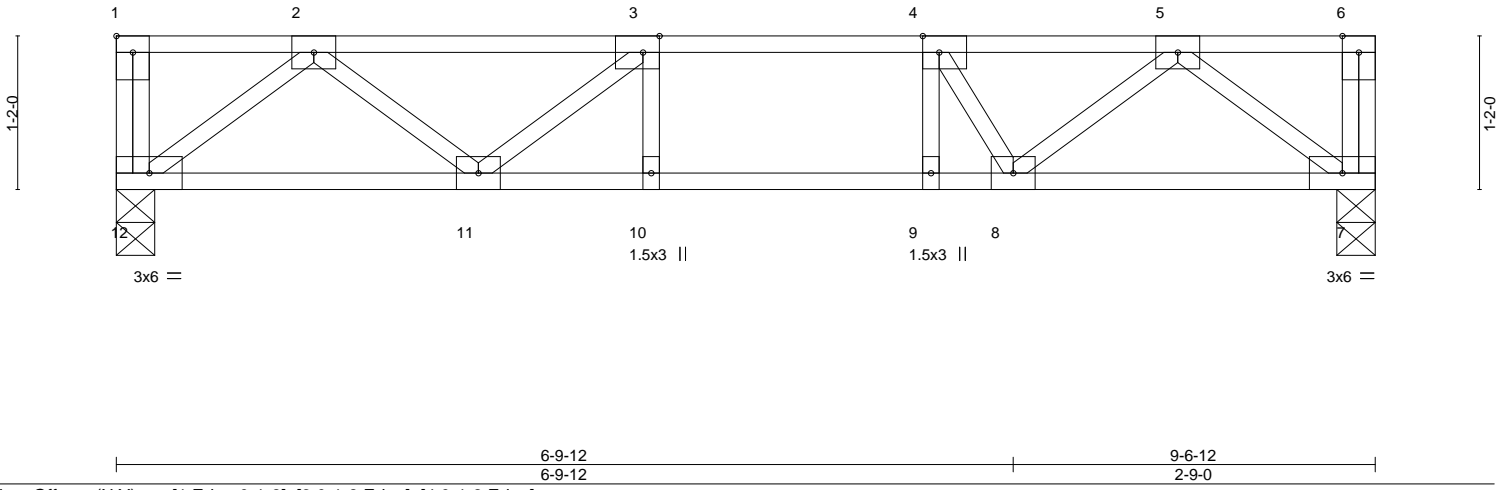


Plate Offsets (X, Y)--	[1:Edge,0-1-8], [3:0-1-8,Edge], [4:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.57	Vert(LL) -0.08 10-11 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.94	Vert(CT) -0.10 10-11 >999 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.27	Horz(CT) 0.02 7 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		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)	

REACTIONS. (size) 12=0-3-8, 7=0-3-8
Max Grav 12=652(LC 1), 7=652(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1134/0, 3-4=-1422/0, 4-5=-1178/0
BOT CHORD 11-12=0/790, 10-11=0/1422, 9-10=0/1422, 8-9=0/1422, 7-8=0/747
WEBS 2-12=-991/0, 2-11=0/448, 3-11=-428/0, 5-7=-938/0, 5-8=0/560, 4-8=-555/0

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.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-12=-10, 1-6=-130



Job AC1129	Truss F09G	Truss Type FLOOR	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY Job Reference (optional)	144651852
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Builders FirstSource, Apex, NC

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 12:42:05 2021 Page 1
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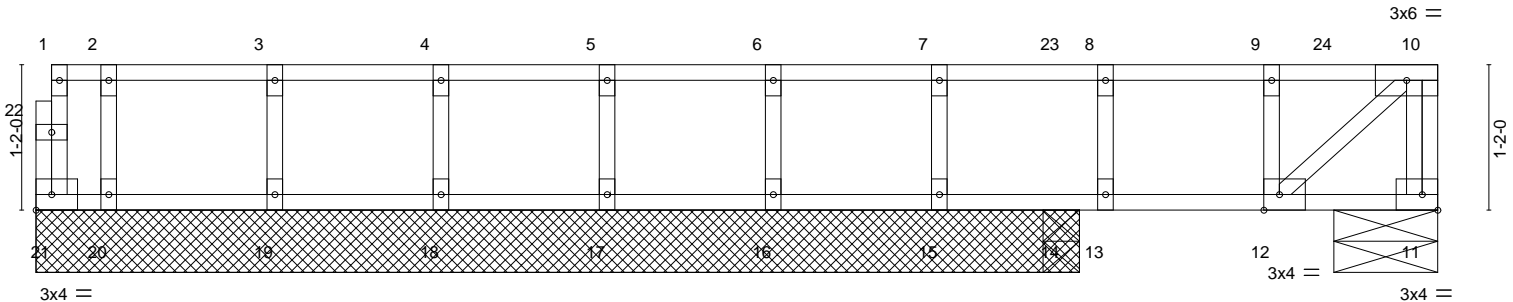


Plate Offsets (X,Y)-- [12:0-1-8,Edge]	8-4-8	11-3-0
	8-4-8	2-10-8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.27	Vert(LL)	-0.03	12	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.45	Vert(CT)	-0.04	12	>912		
BCLL 0.0	Lumber DOL 1.00	WB 0.05	Horz(CT)	0.00	11	n/a		
BCDL 5.0	Rep Stress Incr NO	Matrix-S						
	Code IRC2015/TPI2014						Weight: 51 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: 11-12.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 8-4-8 except (jt=length) 11=0-10-0, 14=0-3-8.
 (lb) - Max Uplift All uplift 100 lb or less at joint(s) 21, 15
 Max Grav All reactions 250 lb or less at joint(s) 11, 21, 15, 16, 17, 18, 19, 20 except 14=323(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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 15.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) 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.

LOAD CASE(S) Standard



February 3, 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

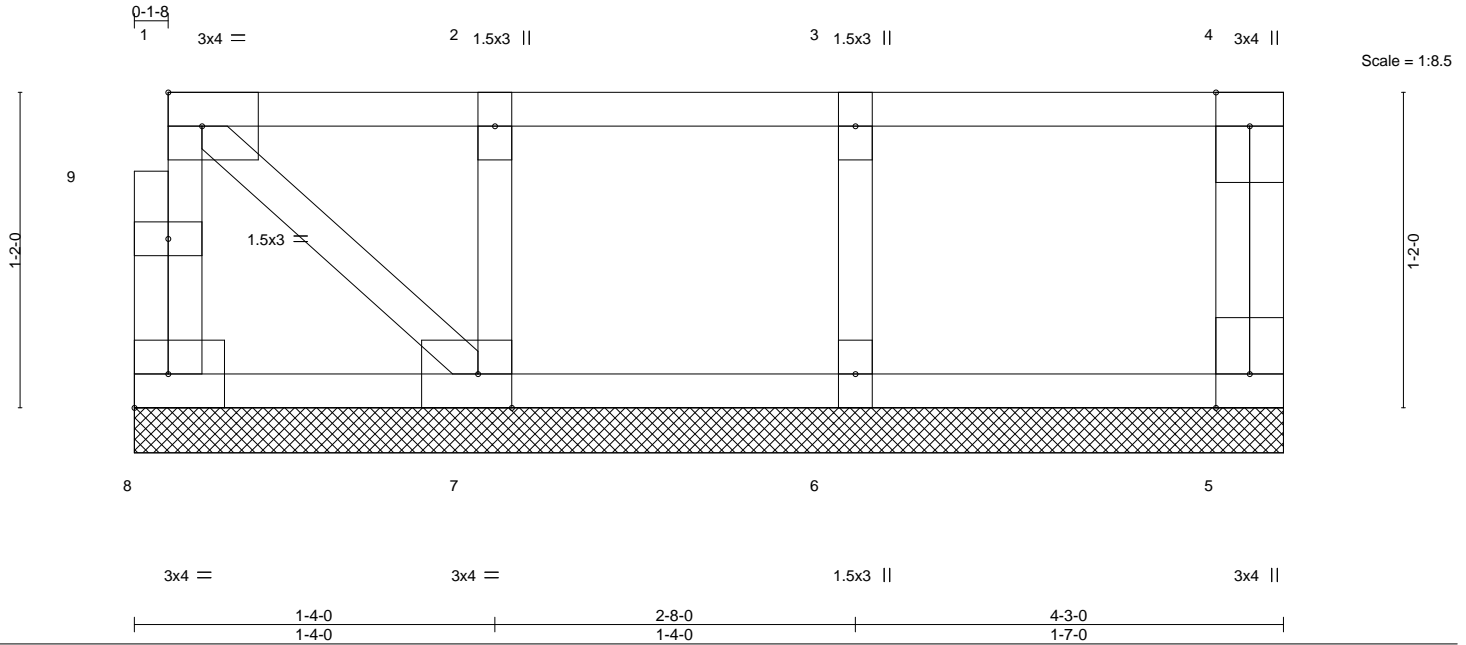


818 Soundside Road
Edenton, NC 27932

Job AC1129	Truss F10G	Truss Type GABLE	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44651853 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 3 09:30:32 2021 Page 1
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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 0.12	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 0.04	Horz(CT)	0.00	5	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-P						
								Weight: 22 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-3-0 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 4-3-0.
(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) Gable requires continuous bottom chord bearing.
 - 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 3) Gable studs spaced at 1-4-0 oc.
 - 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 3, 2021

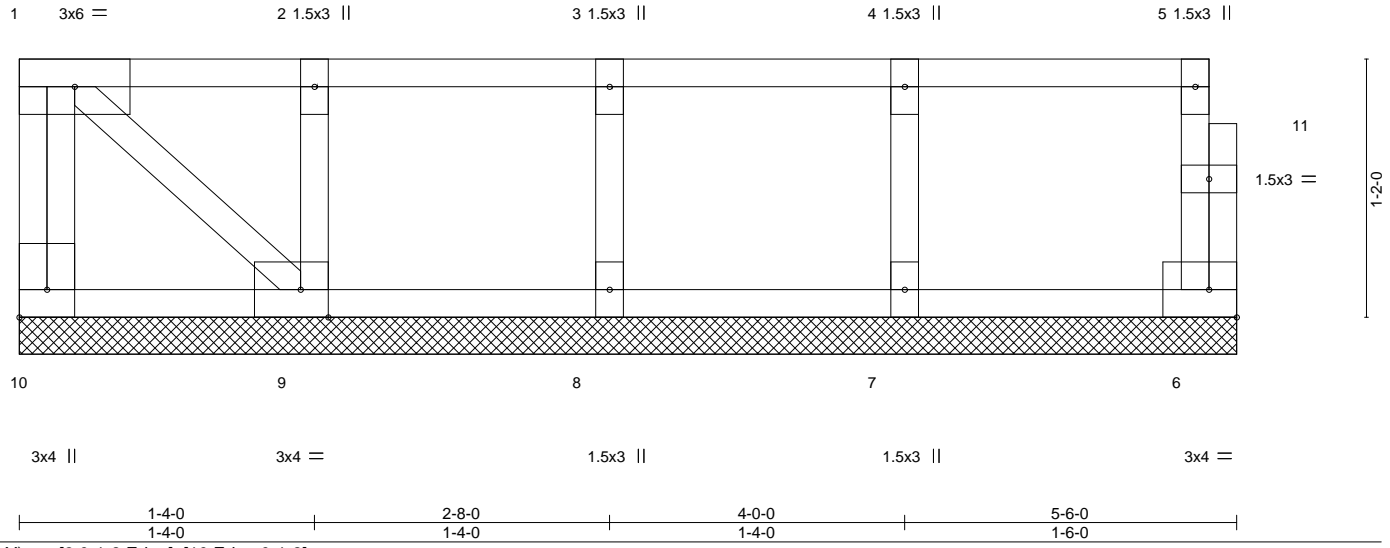
Job AC1129	Truss F11G	Truss Type GABLE	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44651854 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 09:30:33 2021 Page 1
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0-1-8

Scale = 1:10.4



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 0.11	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	6	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-P						Weight: 28 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-6-0 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 5-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

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

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



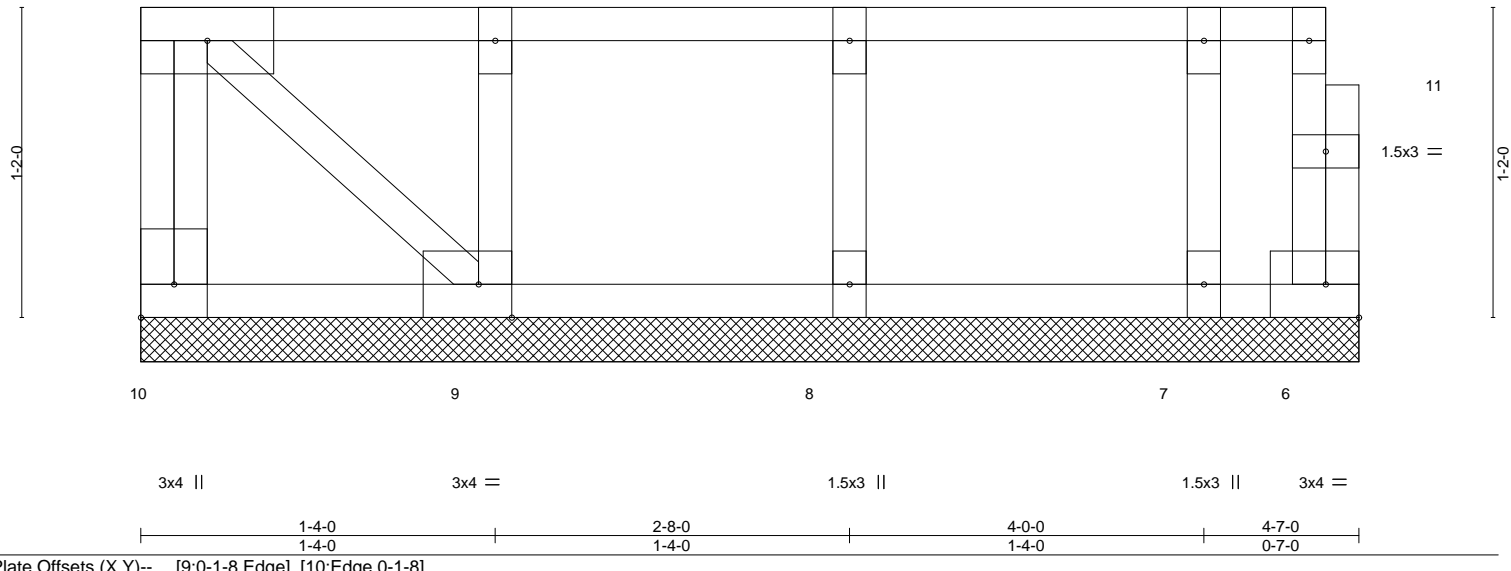
February 3, 2021

Job AC1129	Truss F12G	Truss Type GABLE	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44651855
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 09:30:33 2021 Page 1
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1 3x6 = 2 1.5x3 || 3 1.5x3 || 4 1.5x3 || 5 1.5x3 || 0-1-8
Scale = 1:8.7



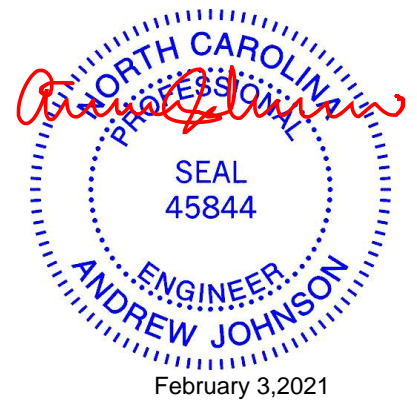
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.00 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 25 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-7-0 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: 9-10.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 4-7-0.
 (lb) - Max Uplift All uplift 100 lb or less at joint(s) 6
 Max Grav All reactions 250 lb or less at joint(s) 10, 9, 8, 7

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

- NOTES-**
- 1) Gable requires continuous bottom chord bearing.
 - 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 3) Gable studs spaced at 1-4-0 oc.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6.
 - 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 3, 2021

Job AC1129	Truss F13	Truss Type FLOOR	Qty 2	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44651856
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 09:30:34 2021 Page 1
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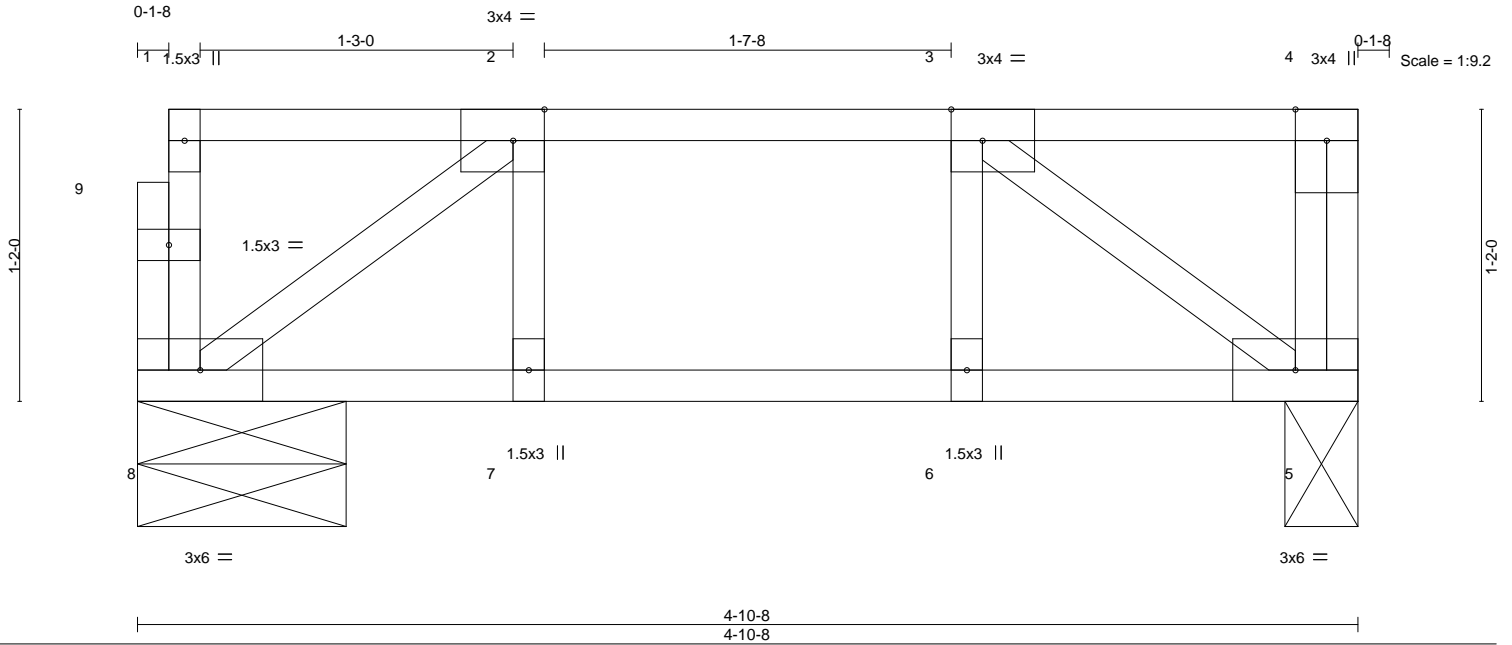


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge]

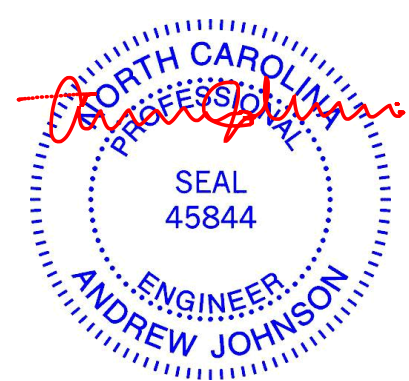
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.15	Vert(LL)	-0.01	6	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.14	Vert(CT)	-0.01	6	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-S							
									Weight: 27 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-10-8 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)	

REACTIONS. (size) 8=0-10-0, 5=0-3-8
Max Grav 8=248(LC 1), 5=254(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-266/0
BOT CHORD 7-8=0/266, 6-7=0/266, 5-6=0/266
WEBS 3-5=-328/0, 2-8=-324/0

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



February 3, 2021

Job AC1129	Truss F14	Truss Type FLOOR	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44651857
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 09:30:35 2021 Page 1
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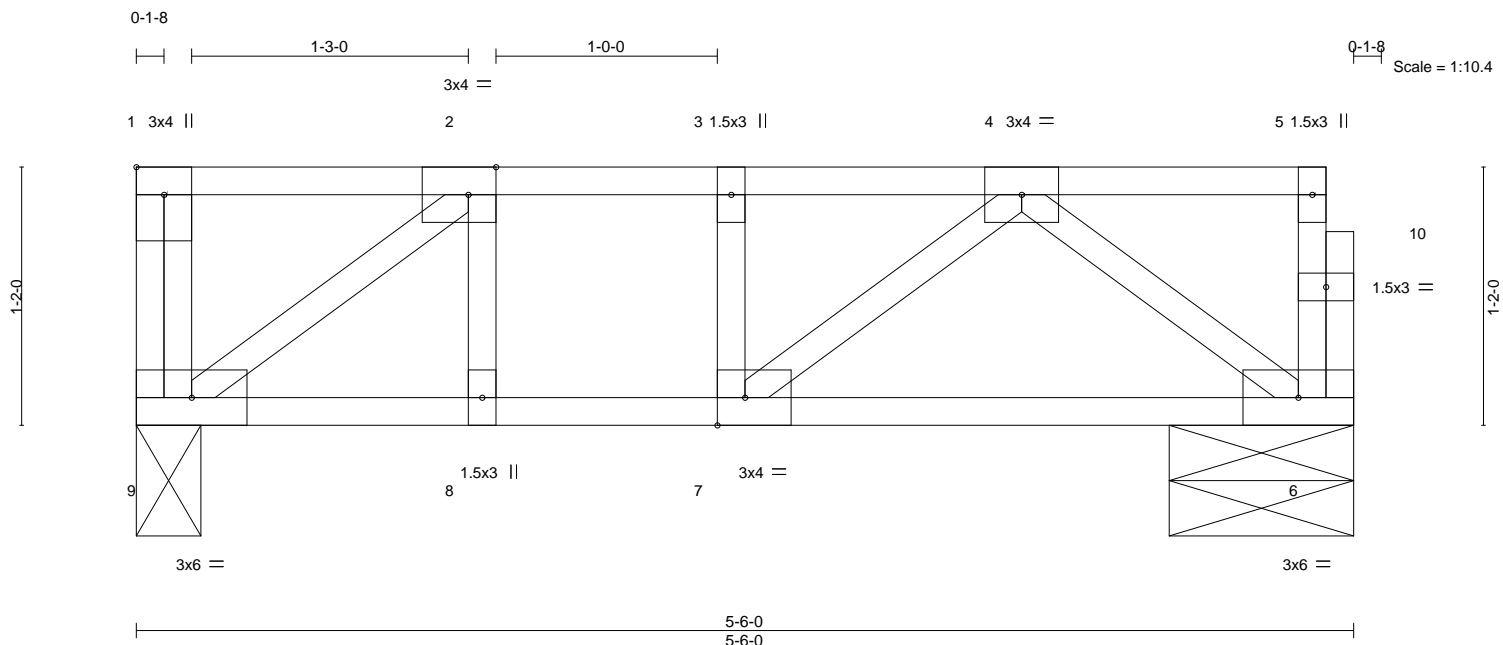


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [7:0-1-8,Edge]

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 0.21	Vert(LL)	-0.02	6-7	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.23	Vert(CT)	-0.03	6-7	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-S							
									Weight: 31 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 9=0-3-8, 6=0-10-0
Max Grav 9=289(LC 1), 6=283(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-342/0, 3-4=-342/0
BOT CHORD 8-9=0/342, 7-8=0/342, 6-7=0/291
WEBS 4-6=-361/0, 2-9=-422/0

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



February 3, 2021

Job AC1129	Truss F14G	Truss Type FLOOR	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44651858 Job Reference (optional)
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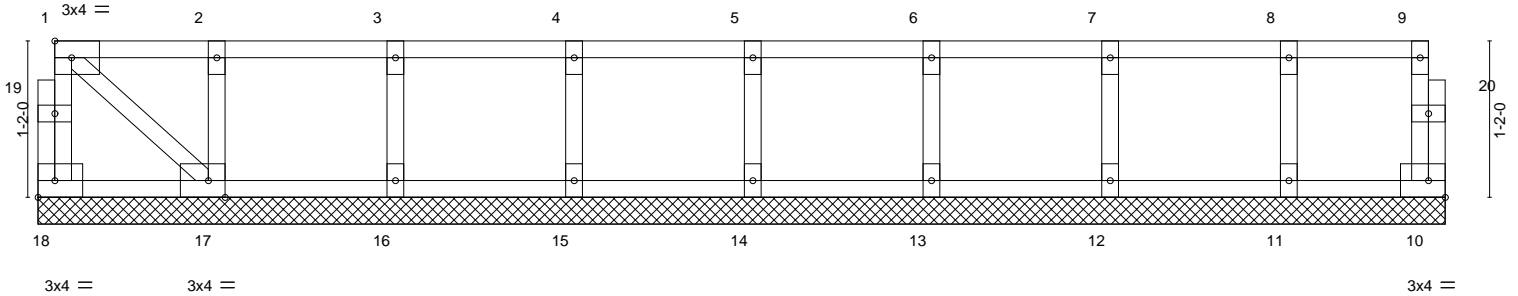
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0r1-8

0r1-8

Scale = 1:17.2



10-6-0
10-6-0

Plate Offsets (X,Y)-- [17:0-1-8,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 10 n/a n/a						
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S							
				Weight: 47 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 10-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 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) 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 3, 2021

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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

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job AC1129	Truss F15	Truss Type FLOOR	Qty 14	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY 144651859
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 09:30:36 2021 Page 1
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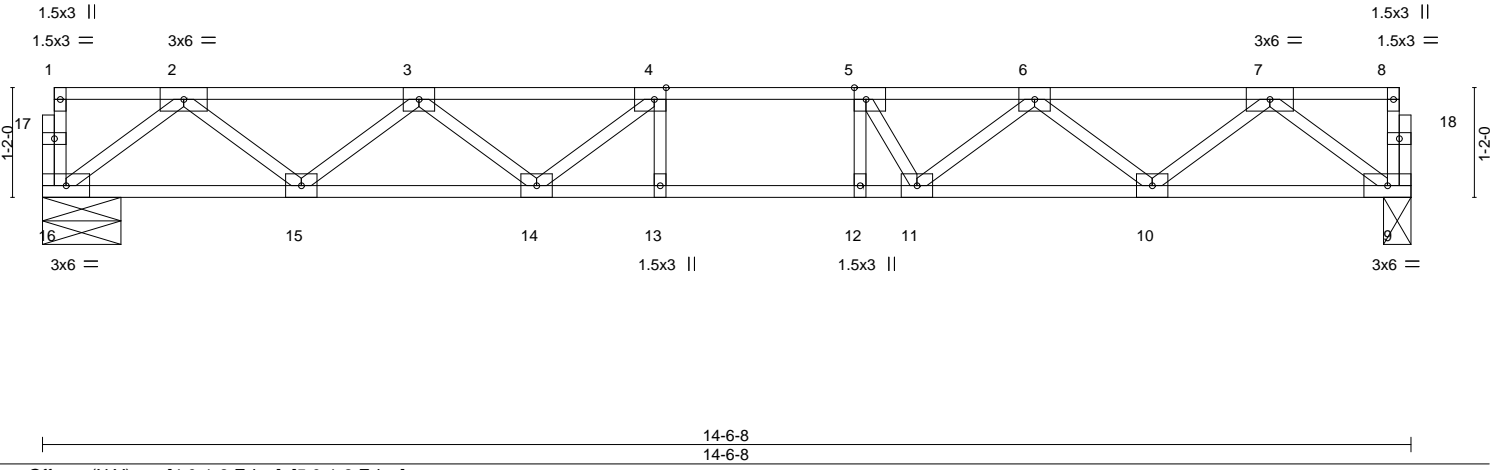
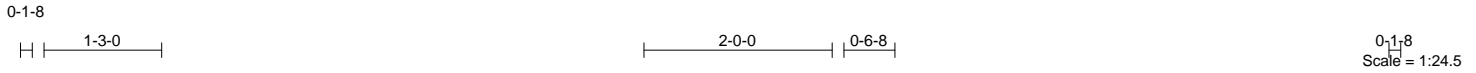


Plate Offsets (X,Y)--	[4:0-1-8,Edge], [5:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.50	Vert(LL) -0.15 13-14 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.84	Vert(CT) -0.21 13-14 >818 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.39	Horz(CT) 0.04 9 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 73 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 16=0-10-0, 9=0-3-8
Max Grav 16=780(LC 1), 9=780(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1587/0, 3-4=-2442/0, 4-5=-2658/0, 5-6=-2474/0, 6-7=-1582/0
BOT CHORD 15-16=0/963, 14-15=0/2180, 13-14=0/2658, 12-13=0/2658, 11-12=0/2658, 10-11=0/2155, 9-10=0/971
WEBS 2-16=-1205/0, 2-15=0/812, 3-15=-772/0, 3-14=0/405, 4-14=-468/0, 5-12=-143/294, 7-9=-1216/0, 7-10=0/795, 6-10=-746/0, 6-11=0/505, 5-11=-582/0

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



Job AC1129	Truss F16	Truss Type FLOOR	Qty 2	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY 144651860
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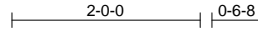
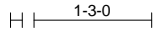
Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 09:30:37 2021 Page 1

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0-1-8



0-1-8
Scale = 1:24.5

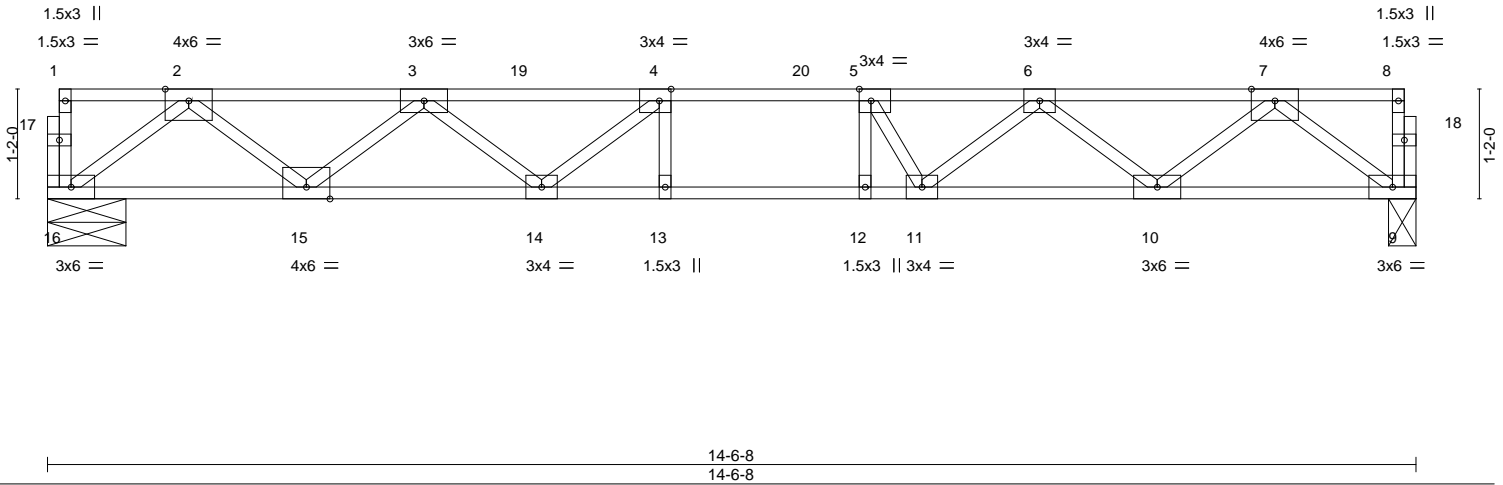


Plate Offsets (X,Y)--	[4:0-1-8,Edge], [5:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.84	Vert(LL) -0.20 13-14 >844 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.90	Vert(CT) -0.28 13-14 >618 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.52	Horz(CT) 0.04 9 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 73 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 5-9-4 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) 16=0-10-0, 9=0-3-8
Max Grav 16=944(LC 1), 9=915(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2003/0, 3-4=-3222/0, 4-5=-3515/0, 5-6=-3161/0, 6-7=-1919/0
BOT CHORD 15-16=0/1170, 14-15=0/2813, 13-14=0/3515, 12-13=0/3515, 11-12=0/3515, 10-11=0/2643, 9-10=0/1153
WEBS 2-16=-1465/0, 2-15=0/1084, 3-15=-1054/0, 3-14=0/595, 4-14=-567/0, 4-13=-272/0, 5-12=0/477, 7-9=-1444/0, 7-10=0/997, 6-10=-943/0, 6-11=0/764, 5-11=-919/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
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.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-16=-10, 1-19=-100, 19-20=-200, 8-20=-100



Job AC1129	Truss F17	Truss Type FLOOR	Qty 2	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY 144651861
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Feb 3 09:30:38 2021 Page 1
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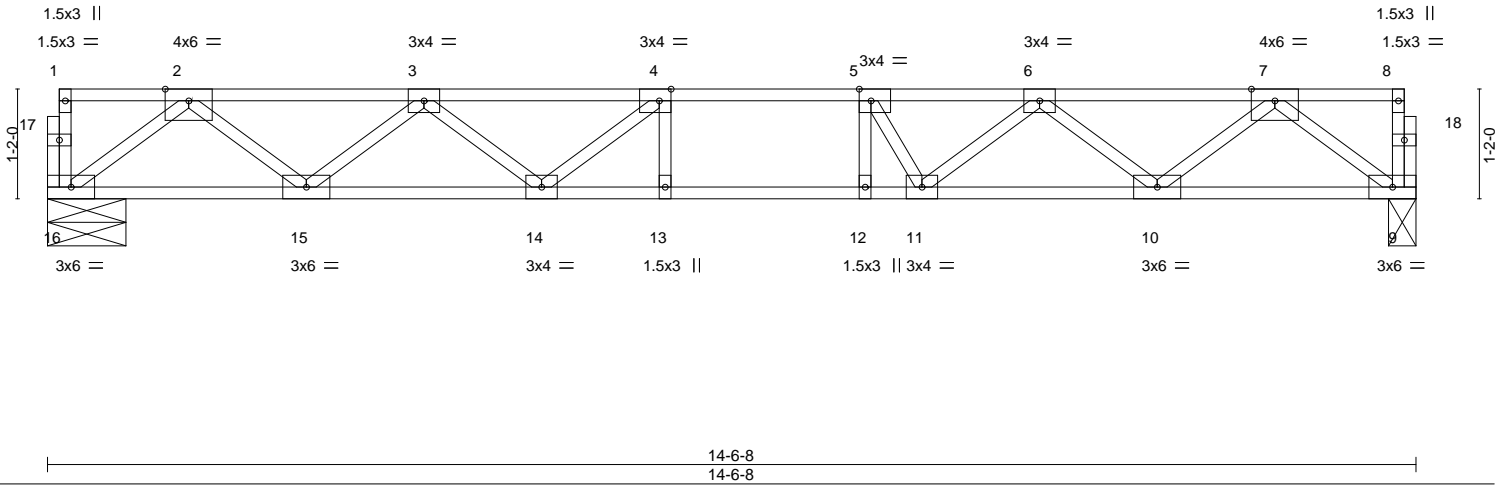
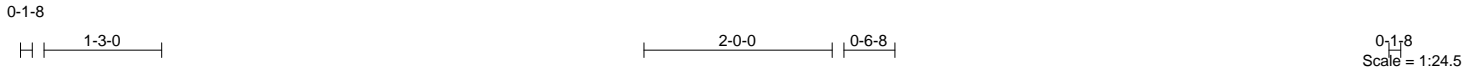


Plate Offsets (X,Y)--	[4:0-1-8,Edge], [5:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.73	Vert(LL) -0.18 13-14 >928 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.75	Vert(CT) -0.25 13-14 >680 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.49	Horz(CT) 0.04 9 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 73 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 SS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 16=0-10-0, 9=0-3-8
Max Grav 16=992(LC 1), 9=992(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2016/0, 3-4=-3107/0, 4-5=-3383/0, 5-6=-3146/0, 6-7=-2010/0
BOT CHORD 15-16=0/1228, 14-15=0/2776, 13-14=0/3383, 12-13=0/3383, 11-12=0/3383, 10-11=0/2744, 9-10=0/1238
WEBS 2-16=-1537/0, 2-15=0/1026, 3-15=-988/0, 3-14=0/507, 4-14=-600/0, 5-12=-193/386, 7-9=-1550/0, 7-10=0/1005, 6-10=-956/0, 6-11=0/633, 5-11=-750/0

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

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-16=-10, 1-8=-130



February 3, 2021

Job AC1129	Truss F18	Truss Type FLOOR	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44651862
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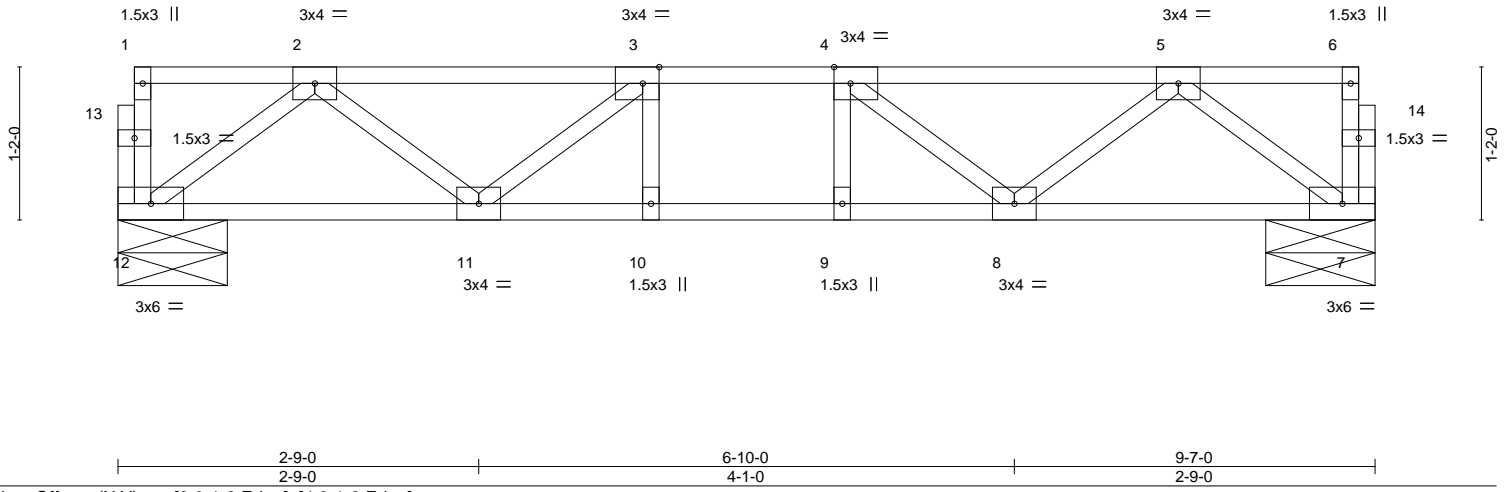
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0-1-8

1-3-0

1-4-0

0-1-8
Scale = 1:17.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.48	Vert(LL) -0.04 10-11 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.18	Vert(CT) -0.05 10-11 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 7 n/a n/a		
	Code IRC2015/TPI2014			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)	

REACTIONS. (size) 12=0-10-0, 7=0-10-0
Max Grav 12=507(LC 1), 7=507(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-894/0, 3-4=-1153/0, 4-5=-894/0
BOT CHORD 11-12=0/615, 10-11=0/1153, 9-10=0/1153, 8-9=0/1153, 7-8=0/615
WEBS 5-7=-769/0, 2-12=-769/0, 5-8=0/362, 2-11=0/362, 4-8=-357/0, 3-11=-357/0

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



February 3, 2021

Job AC1129	Truss F19G	Truss Type FLOOR	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44651863 Job Reference (optional)
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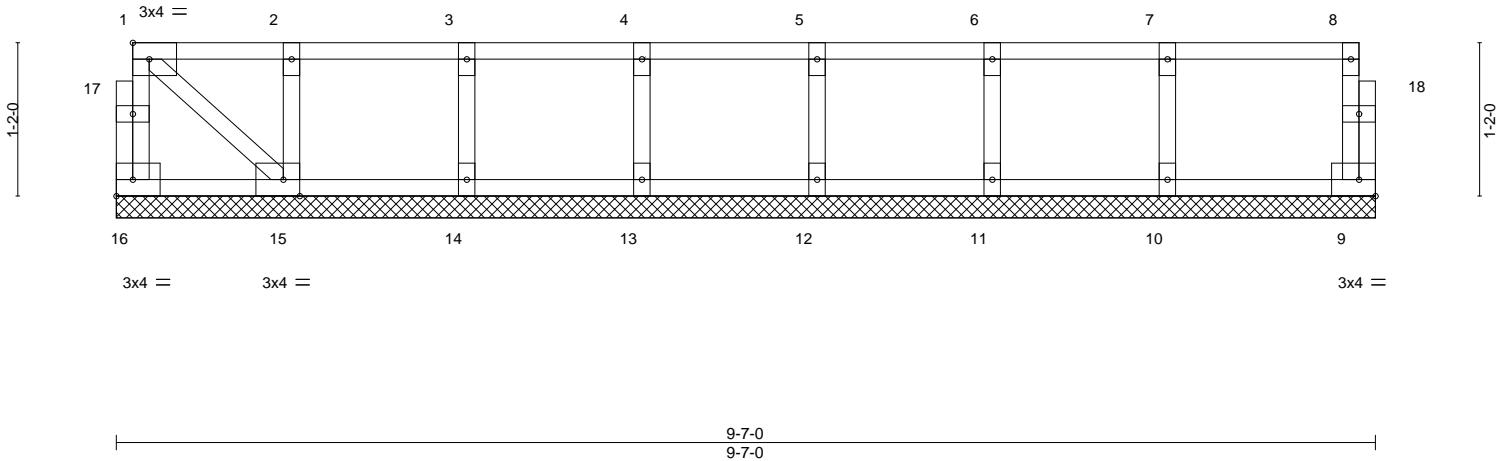
Builders FirstSource (Apex, NC), Apex, NC - 27523,

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0₁-8

0₁-8

Scale = 1:17.5



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 0.12	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 0.04	Horz(CT)	0.00	9	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S							
								Weight: 43 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 9-7-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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 3, 2021

Job AC1129	Truss F20G	Truss Type FLOOR	Qty 1	Ply 1	MCKEE/FINLEY; LOT 1129 ANDERSON CREEK ACADEMY I44651864 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 3 09:30:40 2021 Page 1
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0-1-8

0-1-8

Scale = 1:10.9

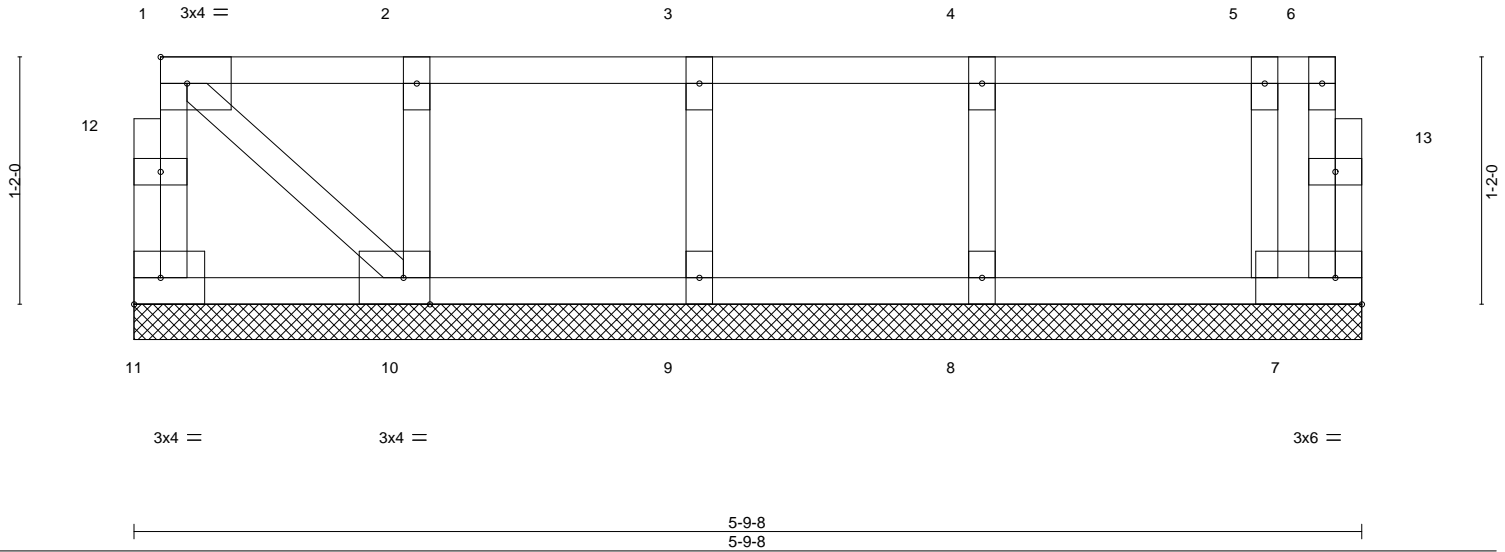


Plate Offsets (X,Y)--	[10:0-1-8,Edge]
LOADING (psf)	SPACING- 2-0-0
TCLL 40.0	Plate Grip DOL 1.00
TCDL 10.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr NO
BCDL 5.0	Code IRC2015/TPI2014
	CSI.
	TC 0.09
	BC 0.02
	WB 0.03
	Matrix-P
	DEFL. in (loc) l/defl L/d
	Vert(LL) n/a - n/a 999
	Vert(CT) n/a - n/a 999
	Horz(CT) 0.00 7 n/a n/a
	PLATES GRIP
	MT20 244/190
	Weight: 29 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-9-8 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 5-9-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 11, 7, 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.



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



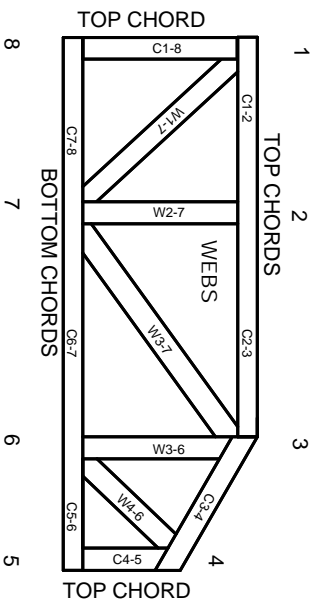
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP 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
BCSI: 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/TFP 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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.