

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: MasterFloor  
McKee Homes - Winston - Lot 1010 Carriage Glen@ Anderson Creek - Floor

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: I45644444 thru I45644458

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

North Carolina COA: C-0844



April 14,2021

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Sevier, Scott

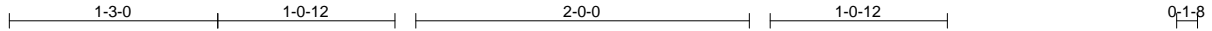
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), 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 MASTERFLOOR	Truss F01	Truss Type FLOOR	Qty 99	Ply 1	McKee Homes - Winston - Lot 1010 Carriage Glen@ Anderson Creek I45644444
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:55:31 2021 Page 1

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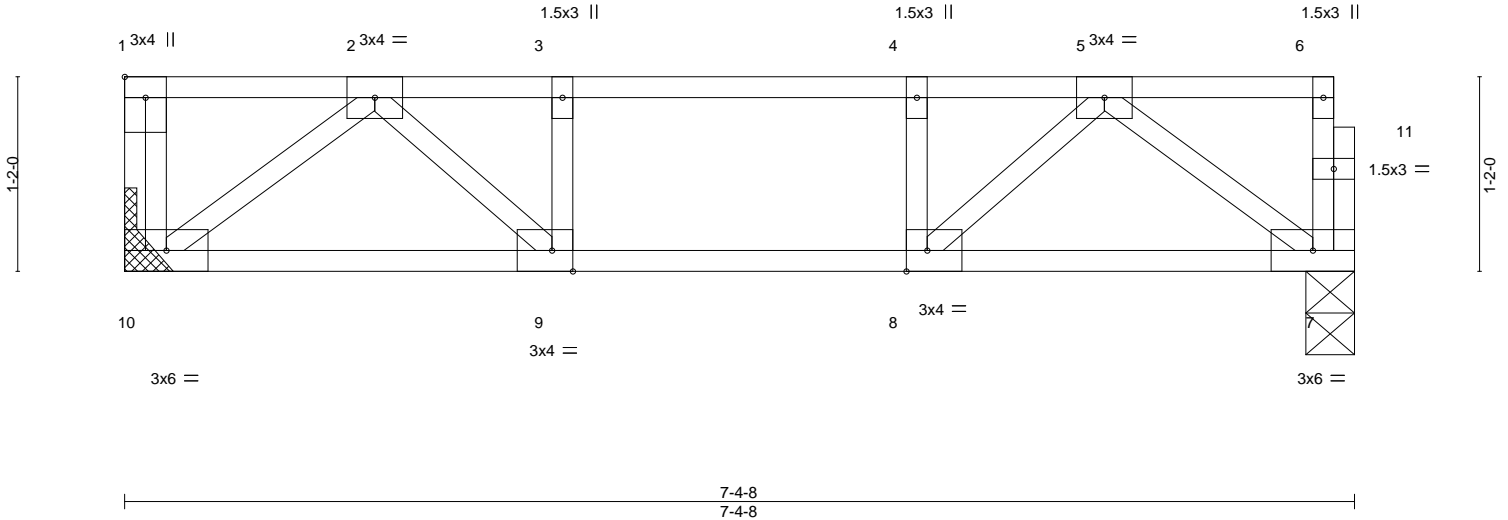


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [8:0-1-8,Edge], [9:0-1-8,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.29	Vert(LL) -0.02 7-8 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.25	Vert(CT) -0.03 7-8 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.01 7 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 38 lb	FT = 20%F, 11%E

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

**REACTIONS.** (size) 10=Mechanical, 7=0-3-8  
Max Grav 10=392(LC 1), 7=386(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-640/0, 3-4=-640/0, 4-5=-640/0  
BOT CHORD 9-10=0/423, 8-9=0/640, 7-8=0/421  
WEBS 2-10=-531/0, 5-7=-524/0, 2-9=0/346, 5-8=0/347

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



April 14, 2021

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	McKee Homes - Winston - Lot 1010 Carriage Glen@ Anderson Creek - Floor
MASTERFLOOR	F01G	FLOOR	99	1	I45644445
					Job Reference (optional)

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

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:55:32 2021 Page 1  
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0-1-8

0-1-8

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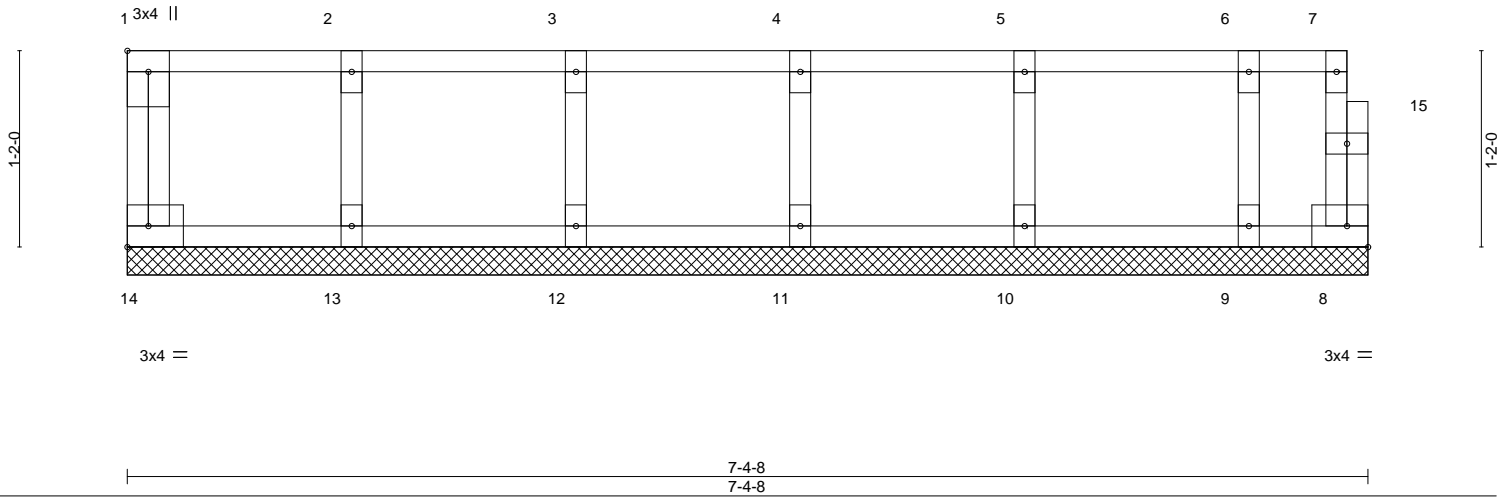


Plate Offsets (X,Y)--	[1:Edge,0-1-8]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00		TC 0.09	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00		BC 0.02	Vert(CT) n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr NO		WB 0.03	Horz(CT) 0.00	8	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R					Weight: 34 lb	FT = 20%F, 11%E

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

**REACTIONS.** All bearings 7-4-8.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

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



April 14, 2021

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job MASTERFLOOR	Truss F02	Truss Type FLOOR	Qty 99	Ply 1	McKee Homes - Winston - Lot 1010 Carriage Glen@ Anderson Creek I45644446
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:55:32 2021 Page 1  
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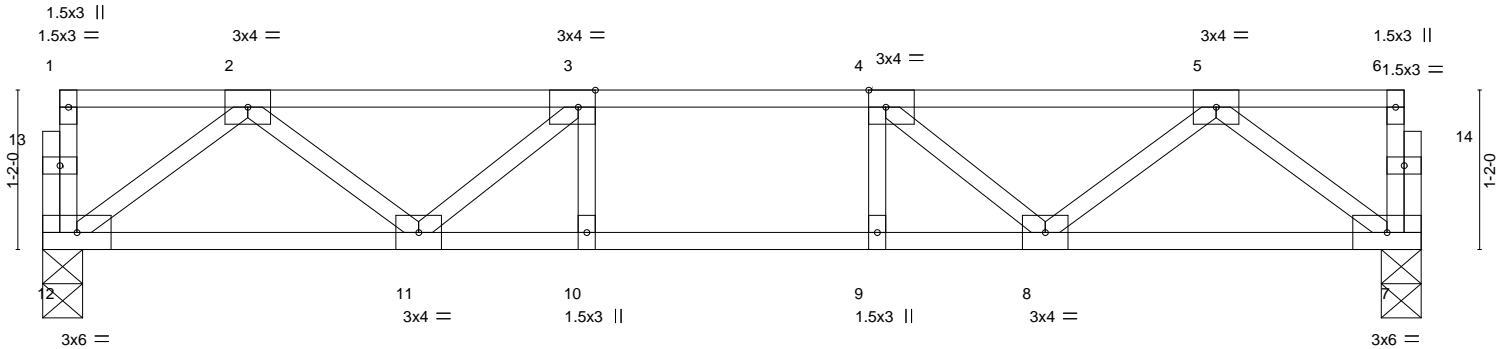
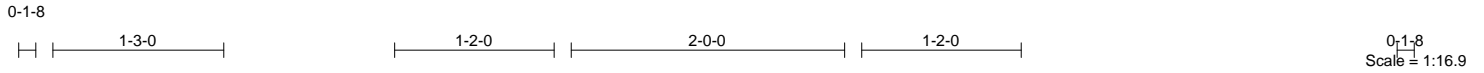


Plate Offsets (X, Y)--	[3:0-1-8,Edge], [4:0-1-8,Edge]
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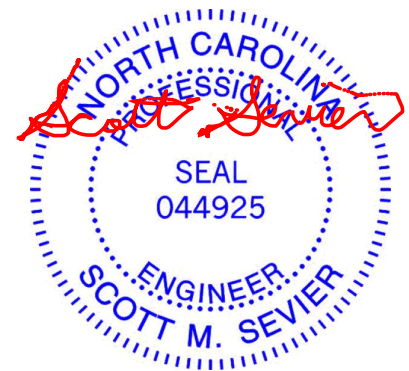
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TCLL 40.0	Plate Grip DOL 1.00	TC 0.30	Vert(LL) -0.06 10-11 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.56	Vert(CT) -0.07 10 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.01 7 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 51 lb	FT = 20%F, 11%E

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

**REACTIONS.** (size) 12=0-3-8, 7=0-3-8  
Max Grav 12=535(LC 1), 7=535(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-967/0, 3-4=-1255/0, 4-5=-967/0  
BOT CHORD 11-12=0/646, 10-11=0/1255, 9-10=0/1255, 8-9=0/1255, 7-8=0/646  
WEBS 2-12=-807/0, 2-11=0/419, 3-11=-420/0, 5-7=-807/0, 5-8=0/419, 4-8=-420/0

**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 MASTERFLOOR	Truss F02-1PL	Truss Type FLOOR	Qty 99	Ply 1	McKee Homes - Winston - Lot 1010 Carriage Glen@ Anderson Creek 145644447
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:55:33 2021 Page 1  
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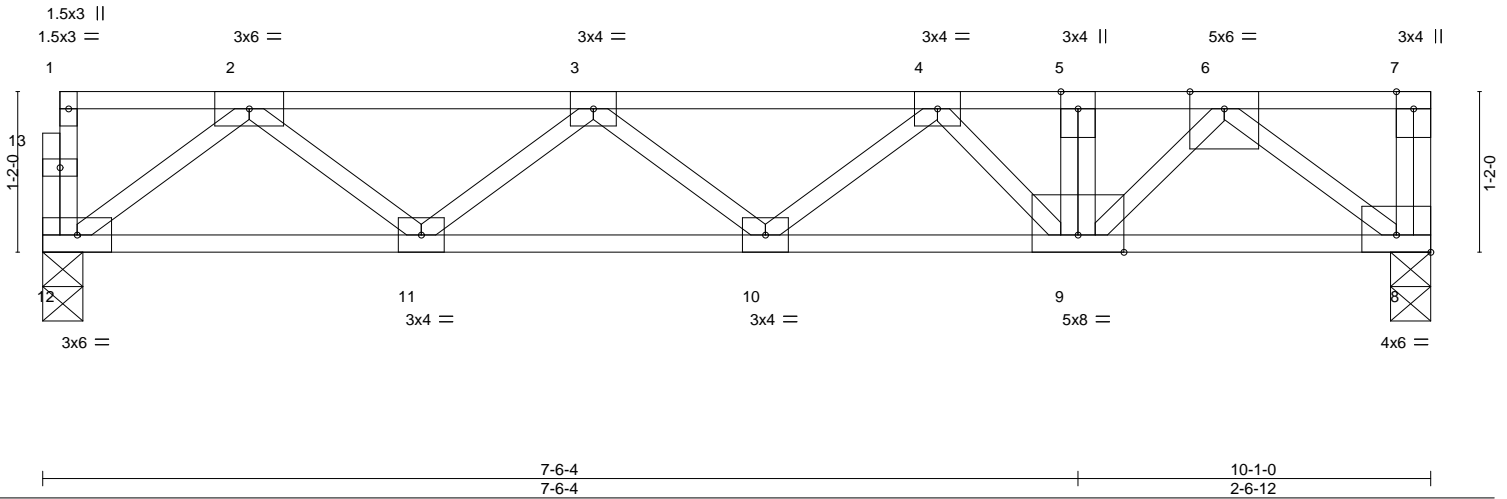


Plate Offsets (X,Y)--	[8:Edge,0-1-8]						
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.40	Vert(LL)	-0.07	10	>999
TCDL 10.0	Lumber DOL	1.00	BC 0.80	Vert(CT)	-0.09	10	>999
BCLL 0.0	Rep Stress Incr	NO	WB 0.68	Horz(CT)	0.03	8	n/a
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S				
							<b>PLATES</b>
							MT20
							<b>GRIP</b>
							244/190
							Weight: 55 lb
							FT = 20%F, 11%E

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

**REACTIONS.** (size) 12=0-3-8, 8=0-3-8  
Max Grav 12=764(LC 1), 8=1238(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1548/0, 3-4=-2369/0, 4-5=-2564/0, 5-6=-2563/0  
BOT CHORD 11-12=0/945, 10-11=0/2117, 9-10=0/2593, 8-9=0/1540  
WEBS 5-9=-953/0, 2-12=-1182/0, 2-11=0/785, 3-11=-741/0, 3-10=0/328, 4-10=-292/0, 6-8=-1932/0, 6-9=0/1433

**NOTES-**  
1) 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.  
2) 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: 8-12=-10, 1-7=-100  
Concentrated Loads (lb)  
Vert: 5=-927

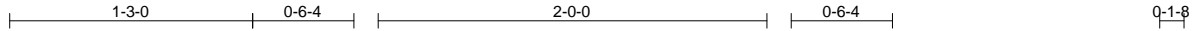


April 14, 2021

Job MASTERFLOOR	Truss F03-1PL	Truss Type FLOOR	Qty 99	Ply 1	McKee Homes - Winston - Lot 1010 Carriage Glen@ Anderson Creek I45644448
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:55:33 2021 Page 1  
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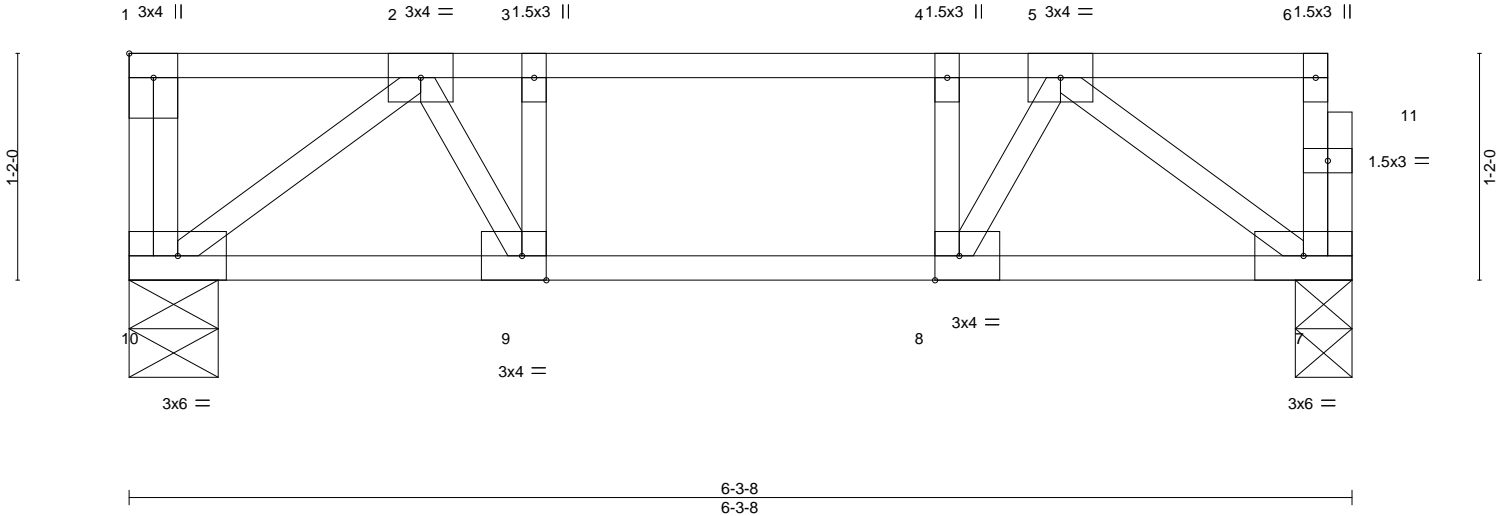


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [8:0-1-8,Edge], [9:0-1-8,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.28	Vert(LL)	-0.01	8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.18	Vert(CT)	-0.02	8	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.14	Horz(CT)	0.00	7	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						

Weight: 34 lb FT = 20%F, 11%E

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

**REACTIONS.** (size) 10=0-5-8, 7=0-3-8  
Max Grav 10=1012(LC 1), 7=326(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-10=-740/0, 2-3=-453/0, 3-4=-453/0, 4-5=-453/0  
BOT CHORD 9-10=0/349, 8-9=0/453, 7-8=0/346  
WEBS 2-10=-437/0, 5-7=-430/0, 2-9=0/287, 5-8=0/289

**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.  
3) 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: 7-10=-10, 1-6=-100  
Concentrated Loads (lb)  
Vert: 1=-680



April 14, 2021

Job MASTERFLOOR	Truss F03G	Truss Type FLOOR	Qty 99	Ply 1	McKee Homes - Winston - Lot 1010 Carriage Glen@ Anderson Creek 145644449 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:55:34 2021 Page 1  
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0,1,8

0,1,8

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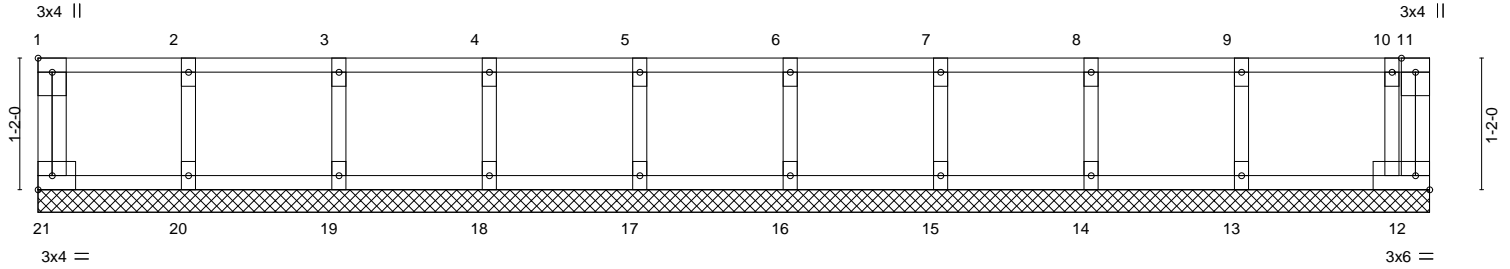


Plate Offsets (X,Y)-- [1:Edge,0-1-8]		12-4-0		12-4-0	
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.10	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.03	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	WB 0.03	Horz(CT) 0.00 12 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		Weight: 54 lb	FT = 20%F, 11%E

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

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

**REACTIONS.** All bearings 12-4-0.  
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 21, 12, 20, 19, 18, 17, 16, 15, 14, 13

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

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



April 14, 2021

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



Job MASTERFLOOR	Truss F04	Truss Type FLOOR	Qty 99	Ply 1	McKee Homes - Winston - Lot 1010 Carriage Glen@ Anderson Creek 145644450
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:55:34 2021 Page 1  
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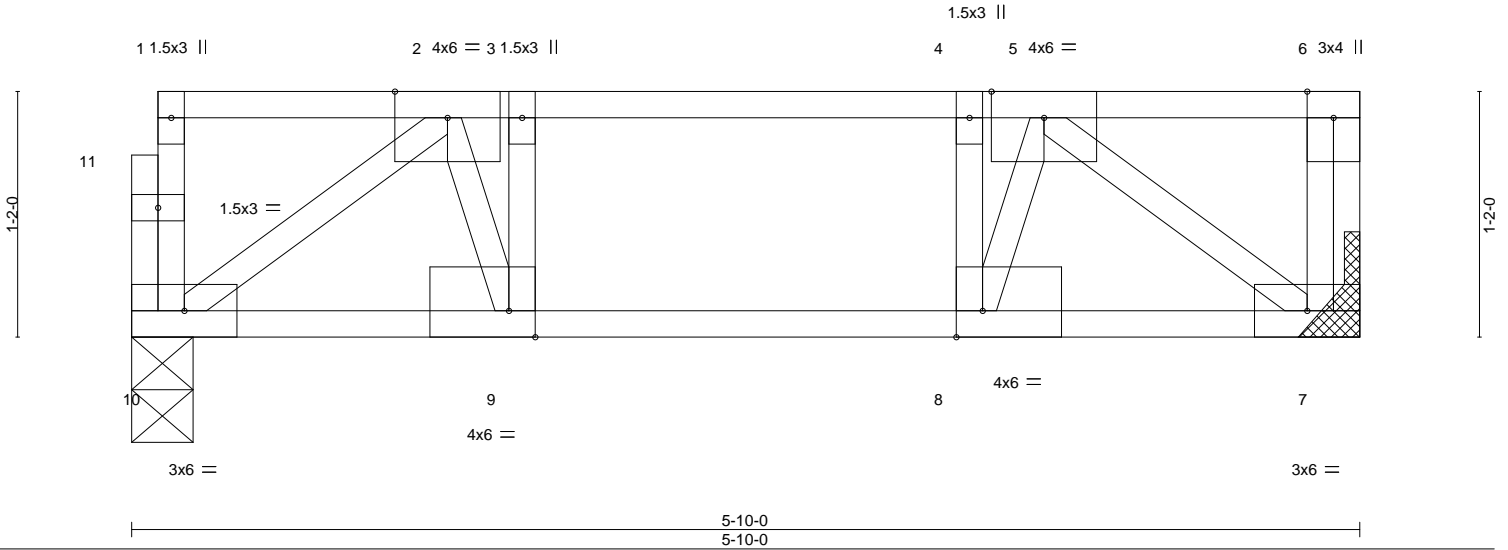


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [9:0-1-8,Edge]

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 0.23	Vert(LL)	-0.01	8	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.14	Vert(CT)	-0.01	8	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.00	7	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 33 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-10-0 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) 10=0-3-8, 7=Mechanical  
Max Grav 10=301(LC 1), 7=307(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-383/0, 3-4=-383/0, 4-5=-383/0  
BOT CHORD 9-10=0/318, 8-9=0/383, 7-8=0/320  
WEBS 2-10=-394/0, 5-7=-401/0, 2-9=0/301, 5-8=0/299, 3-9=-252/0, 4-8=-251/0

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



April 14, 2021



Job MASTERFLOOR	Truss F05-1PL	Truss Type FLOOR	Qty 99	Ply 1	McKee Homes - Winston - Lot 1010 Carriage Glen@ Anderson Creek 145644451
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:55:35 2021 Page 1

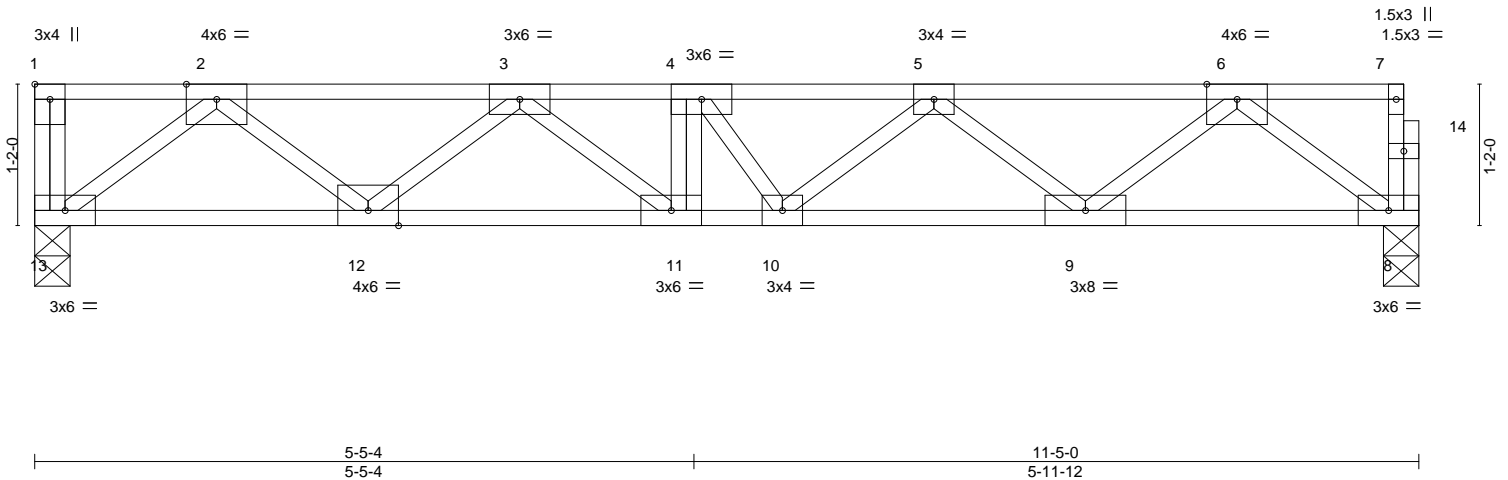
ID:jqCdRHblruLU73I5XDfb5zc7xm-s5vFMYeV44gNCNQL0T2mAk9gFZKRAXTjco8AGzQuRM

1-3-0

0-8-0

0-1-8

Scale = 1:19.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.45	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.73	Vert(LL) -0.11 11 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.53	Vert(CT) -0.14 11 >928 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.03 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 62 lb	FT = 20%F, 11%E

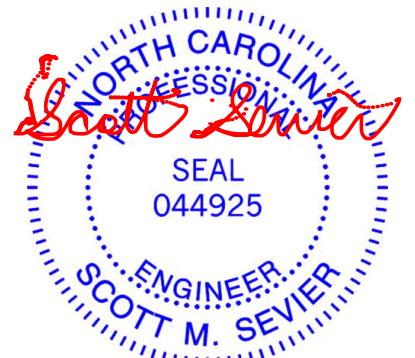
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (size) 13=0-3-8, 8=0-3-8  
Max Grav 13=994(LC 1), 8=945(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2103/0, 3-4=-3546/0, 4-5=-3256/0, 5-6=-1998/0  
BOT CHORD 12-13=0/1244, 11-12=0/2925, 10-11=0/3546, 9-10=0/2777, 8-9=0/1183  
WEBS 4-11=-461/0, 2-13=-1560/0, 2-12=0/1119, 3-12=-1070/0, 3-11=0/779, 6-8=-1482/0, 6-9=0/1060, 5-9=-1014/0, 5-10=0/623, 4-10=-480/0

**NOTES-**  
1) 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.  
2) 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: 8-13=-10, 1-7=-100  
Concentrated Loads (lb)  
Vert: 4=-716



April 14, 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 MASTERFLOOR	Truss F05G	Truss Type FLOOR	Qty 99	Ply 1	McKee Homes - Winston - Lot 1010 Carriage Glen@ Anderson Creek I45644452 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:55:35 2021 Page 1  
ID:jqCdRHblruLU73l5XDfb5zc7xm-s5vFMYeV44gNCNQL0T2mAk9ImZVrAfIjco8AGzQuRM

0-1-8 1 3x4 || 2 1.5x3 || 3 1.5x3 || 4 1.5x3 || 5 3x4 || Scale = 1:9.1

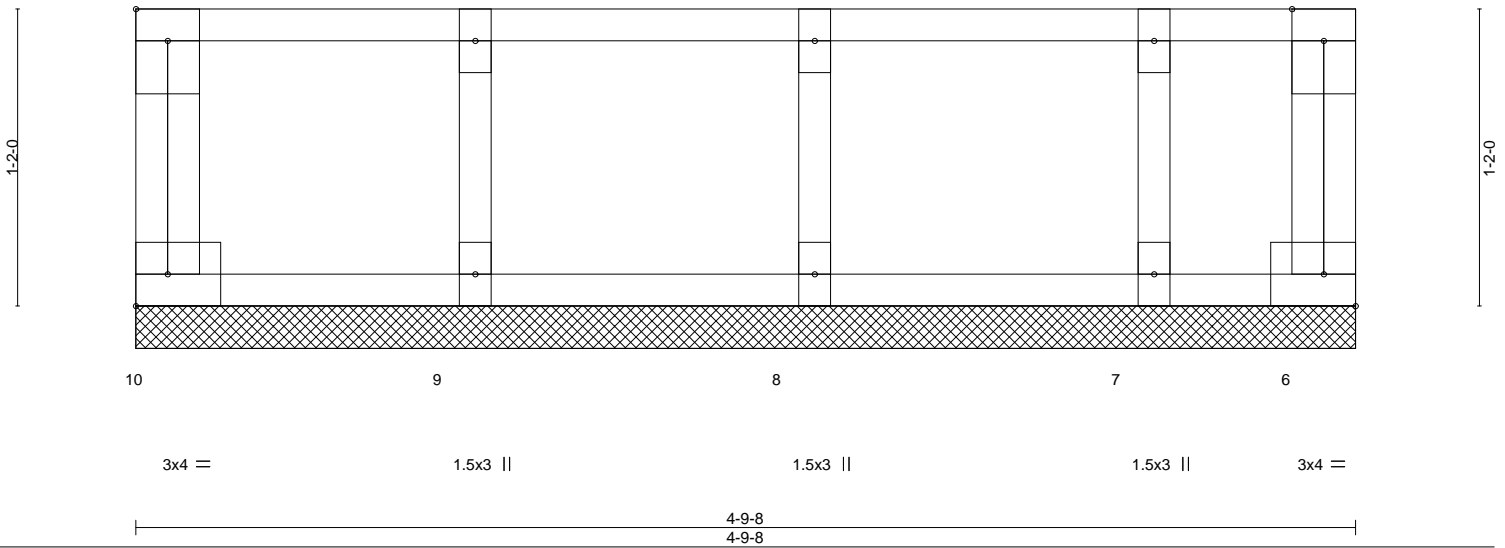


Plate Offsets (X,Y)-- [1:Edge,0-1-8]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.09	Vert(LL)	n/a	-	n/a 999
TCDL 10.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a 999
BCLL 0.0	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.00	6	n/a n/a
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R				
							<b>PLATES</b> MT20
							<b>GRIP</b> 244/190
							Weight: 24 lb FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-9-8 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 4-9-8.  
(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.



April 14, 2021

Job MASTERFLOOR	Truss F06	Truss Type FLOOR	Qty 99	Ply 1	McKee Homes - Winston - Lot 1010 Carriage Glen@ Anderson Creek 145644453
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:55:36 2021 Page 1  
ID:jqCdRHblruLU73i5XDb5zc7xm-LITeauf8rNpEpX?XyBZ?jxinKyg1v?strNXijzQuRL

0-1-8



0-1-8  
Scale = 1:27.1

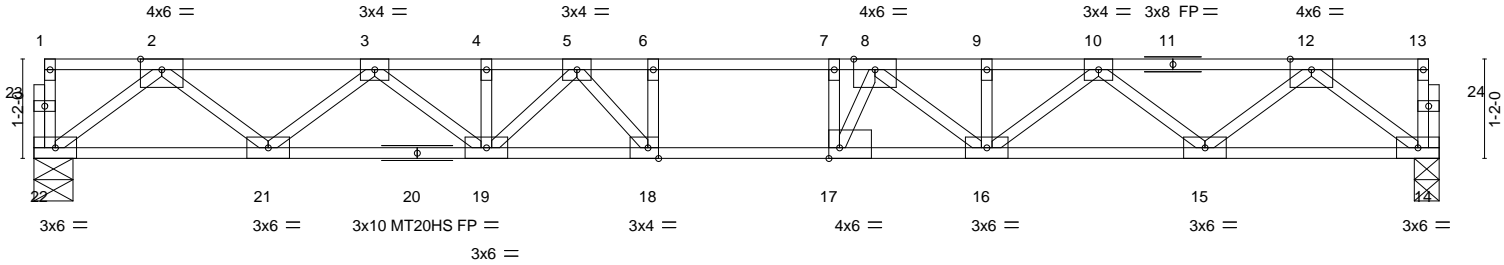


Plate Offsets (X,Y)--	[17:0-1-8,Edge], [18:0-1-8,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.68	Vert(LL)	-0.22 17-18	>874	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.73	Vert(CT)	-0.31 17-18	>634	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.06 14	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 85 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* 14-20: 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) 22=0-5-8, 14=0-3-8  
Max Grav 22=888(LC 1), 14=888(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 2-3=-1852/0, 3-4=-3022/0, 4-5=-3022/0, 5-6=-3441/0, 6-7=-3441/0, 7-8=-3441/0,  
8-9=-3023/0, 9-10=-3023/0, 10-12=-1852/0  
**BOT CHORD** 21-22=0/1111, 19-21=0/2558, 18-19=0/3287, 17-18=0/3441, 16-17=0/3342, 15-16=0/2557,  
14-15=0/1111  
**WEBS** 6-18=-312/1, 7-17=-444/67, 2-22=-1391/0, 2-21=0/965, 3-21=-919/0, 3-19=0/592,  
5-19=-400/0, 5-18=-91/546, 12-14=-1392/0, 12-15=0/964, 10-15=-918/0, 10-16=0/595,  
8-16=-490/0, 8-17=-148/611

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

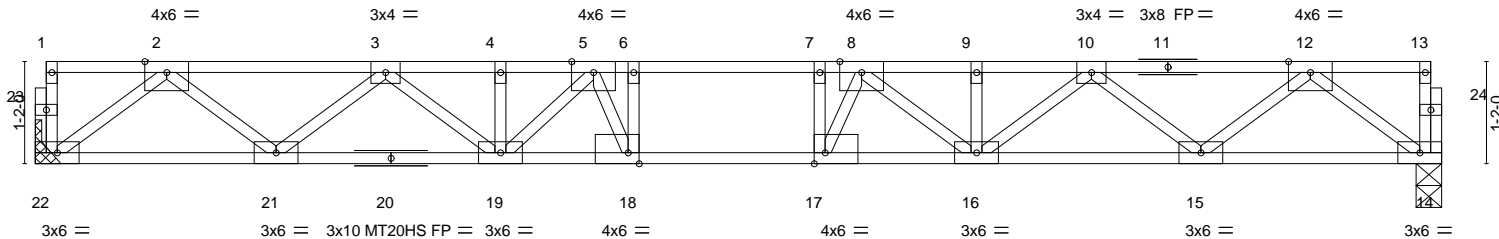
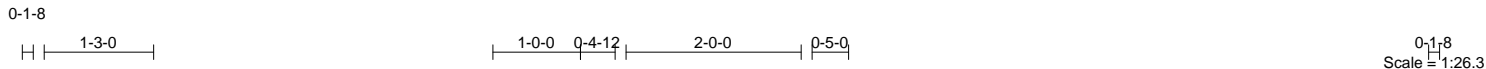


April 14, 2021

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job MASTERFLOOR	Truss F07	Truss Type FLOOR	Qty 99	Ply 1	McKee Homes - Winston - Lot 1010 Carriage Glen@ Anderson Creek 145644454 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:55:37 2021 Page 1  
ID:jqCdRHllruLU73I5XDfb5zc7xm-pU00nEgmchx4RhajWu4EG9EYMMYoeTO041HFF9zQuRK



	6-10-12	7-10-12	8-10-12	16-0-12
	6-10-12	1-0-0	1-0-0	7-2-0
Plate Offsets (X,Y)--	[17:0-1-8,Edge], [18:0-1-8,Edge]			

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.66	Vert(LL)	-0.21	17-18	>889	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.98	Vert(CT)	-0.29	17-18	>645	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.06	14	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-S							
									Weight: 84 lb	FT = 20%F, 11%E

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

**REACTIONS.** (size) 22=Mechanical, 14=0-3-8  
Max Grav 22=863(LC 1), 14=863(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1792/0, 3-4=-2901/0, 4-5=-2901/0, 5-6=-3257/0, 6-7=-3257/0, 7-8=-3257/0,  
8-9=-2907/0, 9-10=-2907/0, 10-12=-1791/0  
BOT CHORD 21-22=0/1080, 19-21=0/2468, 18-19=0/3148, 17-18=0/3257, 16-17=0/3187, 15-16=0/2469,  
14-15=0/1080  
WEBS 6-18=-469/54, 7-17=-409/101, 2-22=-1352/0, 2-21=0/927, 3-21=-880/0, 3-19=0/553,  
5-19=-427/0, 5-18=-123/630, 12-14=-1352/0, 12-15=0/926, 10-15=-882/0, 10-16=0/560,  
8-16=-441/0, 8-17=-181/548

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



April 14, 2021

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	McKee Homes - Winston - Lot 1010 Carriage Glen@ Anderson Creek - Floor
MASTERFLOOR	F08G	FLOOR	99	1	I45644455
					Job Reference (optional)

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:55:37 2021 Page 1  
ID:jqCdRHblrruLU73f5XDfb5zc7xm-pU00nEgmchx4RhajWu4EG9E5BMBKeZn041HFF9zQuRK

0-1-8  
1

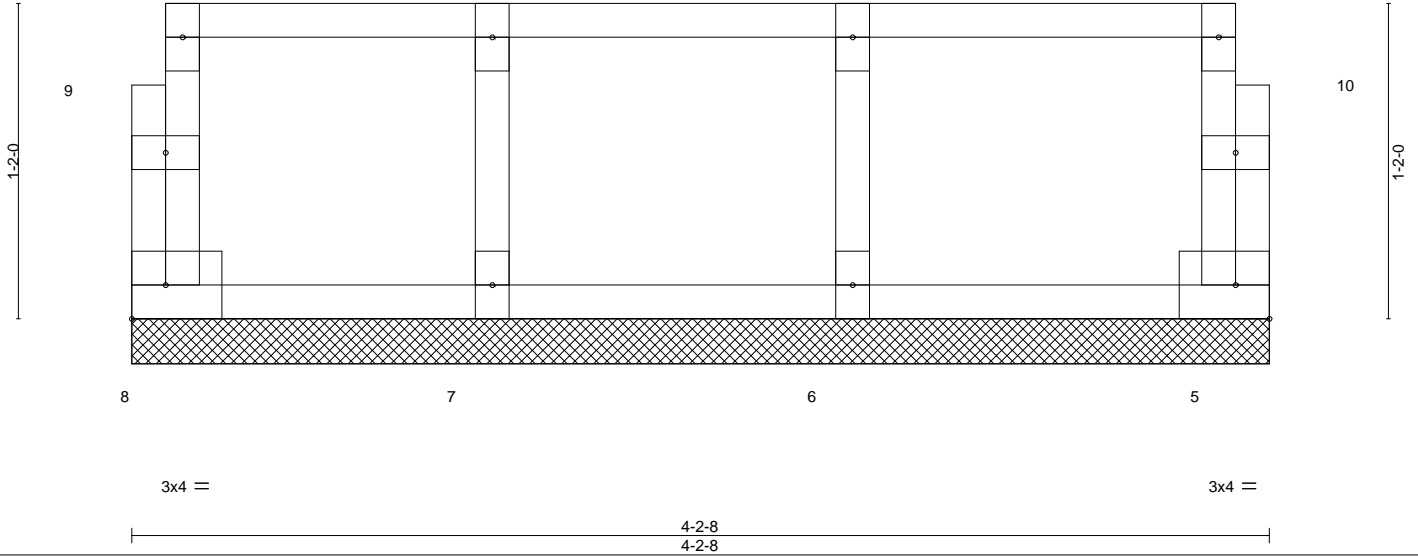
2

3

4

0-1-8  
1

Scale = 1:8.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.10	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: 20 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 4-2-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 4-2-8.  
 (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.



April 14, 2021

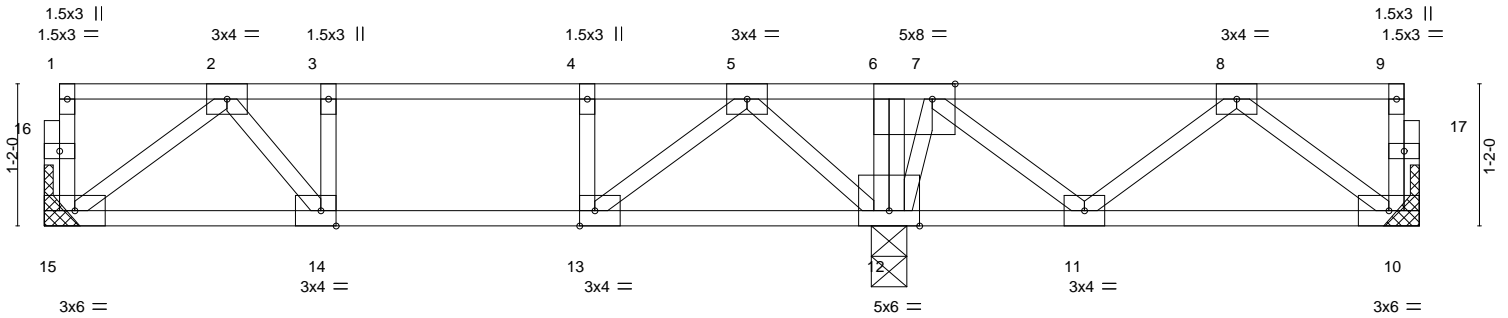
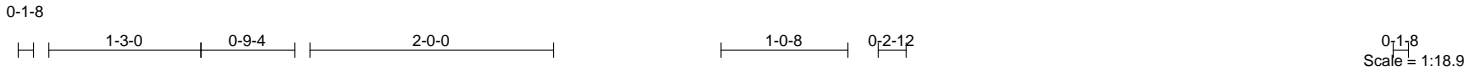
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
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ENGINEERING BY  
**TRENCO**  
 A MiTek Affiliate  
 818 Soundside Road  
 Edenton, NC 27932

Job MASTERFLOOR	Truss F09	Truss Type FLOOR	Qty 99	Ply 1	McKee Homes - Winston - Lot 1010 Carriage Glen@ Anderson Creek I45644456
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:55:38 2021 Page 1  
ID:jqCdRHblrruLU73I5XDfb5zc7xm-HgaO?ahON?3x3r9w3bcToMnDvmVzN\_gAlh0onbzQuRJ



	2-4-12	3-4-12	4-4-12	6-11-4	11-3-8
Plate Offsets (X,Y)--	[6:0-2-4,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge]				

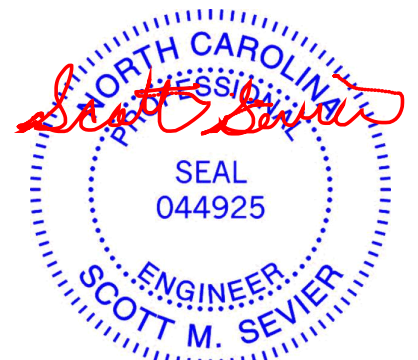
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.32	Vert(LL)	-0.01	14	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.19	Vert(CT)	-0.02	14	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.01	10	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 60 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (size) 15=Mechanical, 10=Mechanical, 12=0-3-8  
Max Grav 15=340(LC 3), 10=226(LC 7), 12=699(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-494/0, 3-4=-494/0, 4-5=-494/0, 5-6=-1/286, 6-7=-0/287  
BOT CHORD 14-15=0/361, 13-14=0/494  
WEBS 2-15=-449/0, 5-13=0/385, 5-12=-492/0, 8-10=-299/0, 7-12=-405/0

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



April 14, 2021

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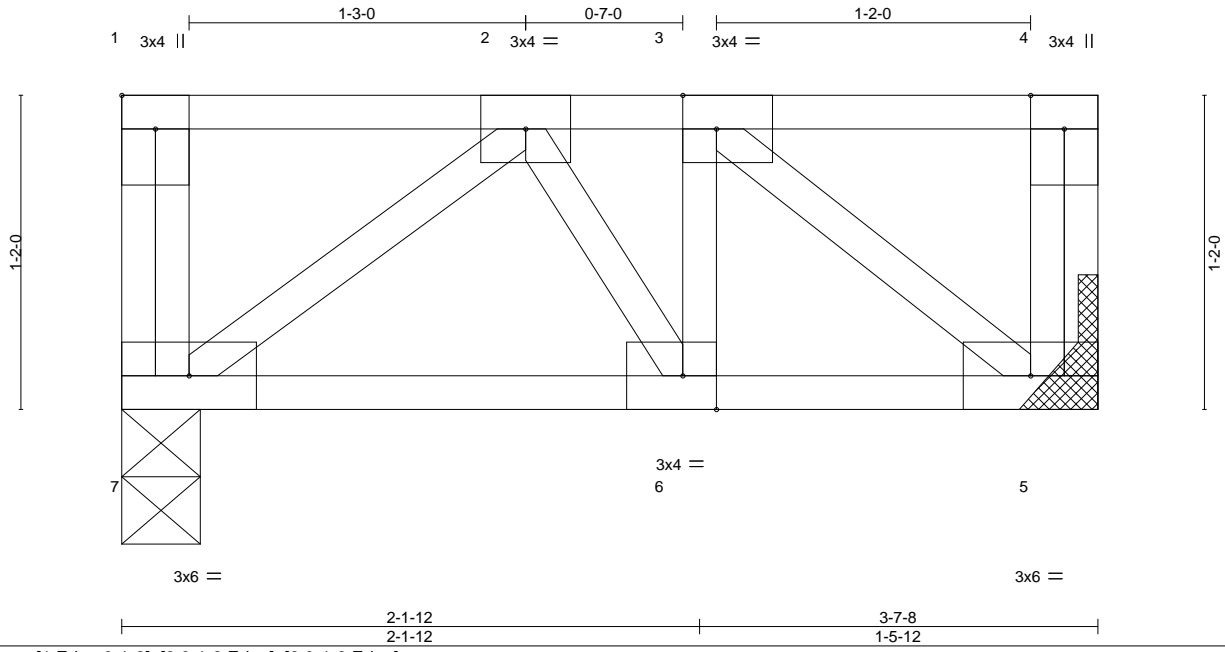




Job MASTERFLOOR	Truss F11-1PL	Truss Type FLOOR	Qty 99	Ply 1	McKee Homes - Winston - Lot 1010 Carriage Glen@ Anderson Creek I45644458
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 14 05:55:39 2021 Page 1  
ID:jqCdRHblruLU73l5XDfb5zc7xm-ls8mCwh08lBog?j6dJ7lLaJNdAp76PLJXLmMK1zQuRI



Scale = 1:8.6

Plate Offsets (X,Y)--	[1:Edge,0-1-8], [3:0-1-8,Edge], [6:0-1-8,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.36	Vert(LL) -0.01 6 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.26	Vert(CT) -0.01 6 >999 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.22	Horz(CT) 0.00 5 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-P		Weight: 24 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 3-7-8 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) 7=0-3-8, 5=Mechanical  
Max Grav 7=755(LC 1), 5=683(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-652/0  
BOT CHORD 6-7=0/747, 5-6=0/652  
WEBS 2-7=-937/0, 3-5=-822/0

- NOTES-**
- 1) Refer to girder(s) for truss to truss connections.
  - 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 3) CAUTION, Do not erect truss backwards.
  - 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 5-7=-10, 1-4=-300(F=-200)  
Concentrated Loads (lb)  
Vert: 2=-392



April 14, 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/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

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



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.