

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 2126463
STOUT / LOT A

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 (Albermarle,NC).

Pages or sheets covered by this seal: E13720439 thru E13720459

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



November 4, 2019

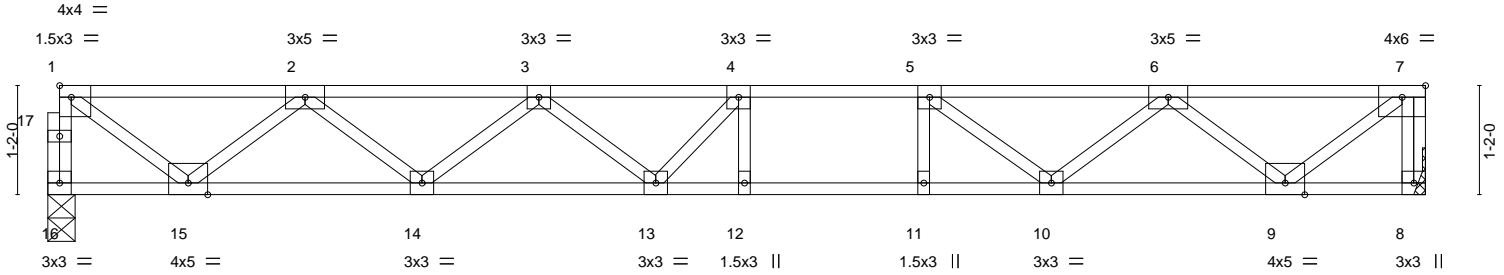
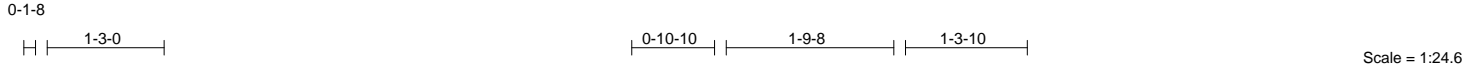
Gilbert, Eric

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 2126463	Truss F1	Truss Type Floor	Qty 6	Ply 1	STOUT / LOT A	E13720439
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:25 2019 Page 1
ID:JMbxoMzM6k0A6?Ocqdq?XByOXGf-H7Jb7N6p?bmDwP4OT1SDjOq2bDHvhZTZinv_?xyMzZo



14-8-12
14-8-12

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.56	Vert(LL) -0.18	12-13	>969	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.98	Vert(CT) -0.25	12-13	>705	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.54	Horz(CT) 0.04	8	n/a	n/a		
BCDL 5.0	Code IRC2015/TP12014	Matrix-SH					Weight: 74 lb	FT = 20%F, 11%E

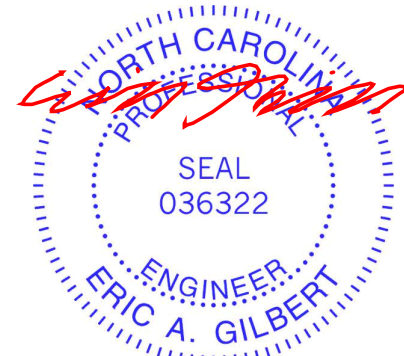
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 11-12.

REACTIONS. (lb/size) 16=790/0-3-8, 8=796/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-785/0, 7-8=-793/0, 1-2=-904/0, 2-3=-2144/0, 3-4=-2688/0, 4-5=-2680/0, 5-6=-2137/0, 6-7=-904/0
BOT CHORD 14-15=0/1694, 13-14=0/2570, 12-13=0/2680, 11-12=0/2680, 10-11=0/2680, 9-10=0/1690
WEBS 4-12=-267/79, 1-15=0/1094, 2-15=-1028/0, 2-14=0/586, 3-14=-555/0, 3-13=0/301, 4-13=-289/227, 7-9=0/1134, 6-9=-1023/0, 6-10=0/582, 5-10=-759/0

- 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.



November 4, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

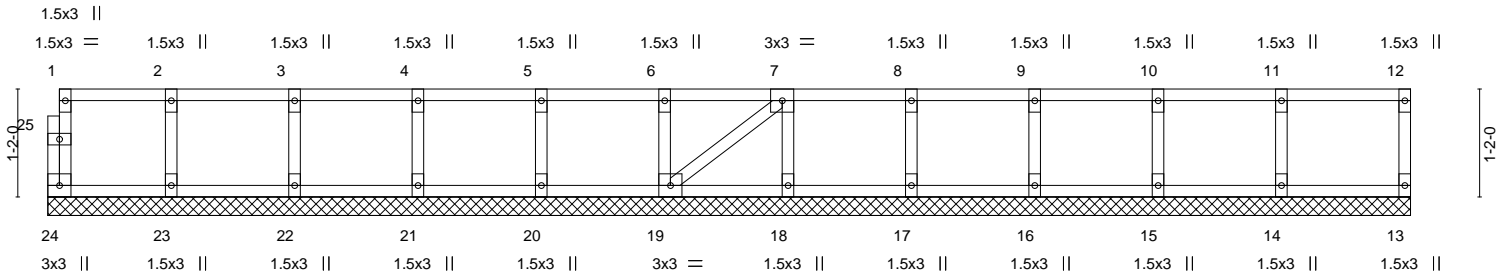
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 2126463	Truss F1E	Truss Type Floor Supported Gable	Qty 1	Ply 1	STOUT / LOT A Job Reference (optional)	E13720440
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:27 2019 Page 1
ID:JMbXoMZM6k0A6?OcqdK?XByOXGf-DWQLY274WC0xAjDnbSVhopvVK0CZ9btrA5O53qyMzM

Scale = 1:24.9



14-8-12
14-8-12

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	13	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-SH					Weight: 63 lb	FT = 20%F, 11%E

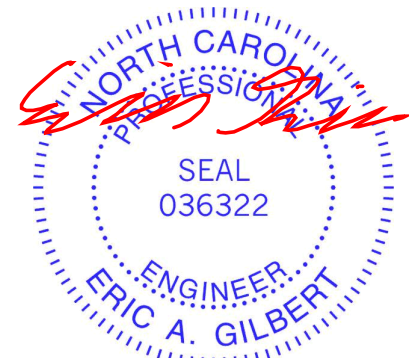
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 14-8-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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.



November 4, 2019

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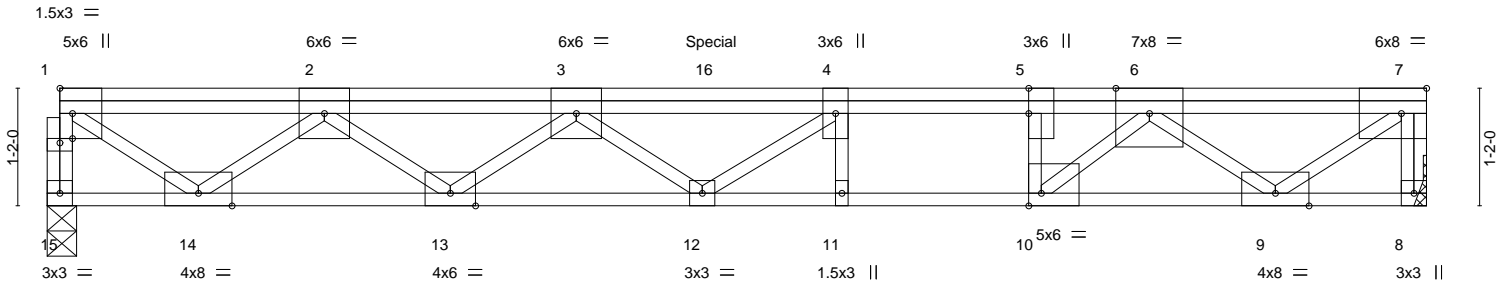
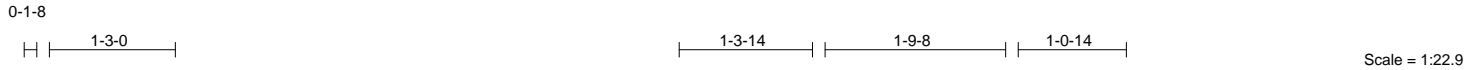
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 2126463	Truss F1G	Truss Type Floor Girder	Qty 1	Ply 1	STOUT / LOT A Job Reference (optional)	E13720441
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:28 2019 Page 1
ID:JMbXoMZM6k0A6?Ocqdk?XByOXGf-ii_kmO8iHW9onsoz990wK1SXkQLsupD?OI7ebGyMZzL



7-11-6	8-10-2	9-8-14	13-8-4
7-11-6	0-10-12	0-10-12	3-11-6
Plate Offsets (X,Y)-- [1:0-1-8,0-0-8], [5:0-3-0,Edge], [7:0-3-0,Edge], [10:0-1-8,Edge]			

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.69	Vert(LL)	-0.20	11-12	>826	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.84	Vert(CT)	-0.27	11-12	>591	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.99	Horz(CT)	0.04	8	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-SH							
									Weight: 87 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 15=1095/0-3-8, 8=1072/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-15=-1090/0, 7-8=-1042/0, 1-2=-1351/0, 2-3=-3520/0, 3-4=-4349/0, 4-5=-3966/0, 5-6=-3966/0, 6-7=-1260/0
 BOT CHORD 13-14=0/2517, 12-13=0/4512, 11-12=0/3966, 10-11=0/3966, 9-10=0/2483
 WEBS 5-10=-1143/0, 1-14=0/1645, 2-14=-1483/0, 2-13=0/1274, 3-13=-1260/0, 3-12=-295/0, 4-12=0/573, 7-9=0/1547, 6-9=-1554/0, 6-10=0/2077

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Refer to girder(s) for truss to truss connections.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 769 lb down at 6-7-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 8-15=-10, 1-7=-100
 Concentrated Loads (lb)
 Vert: 16=-689(F)



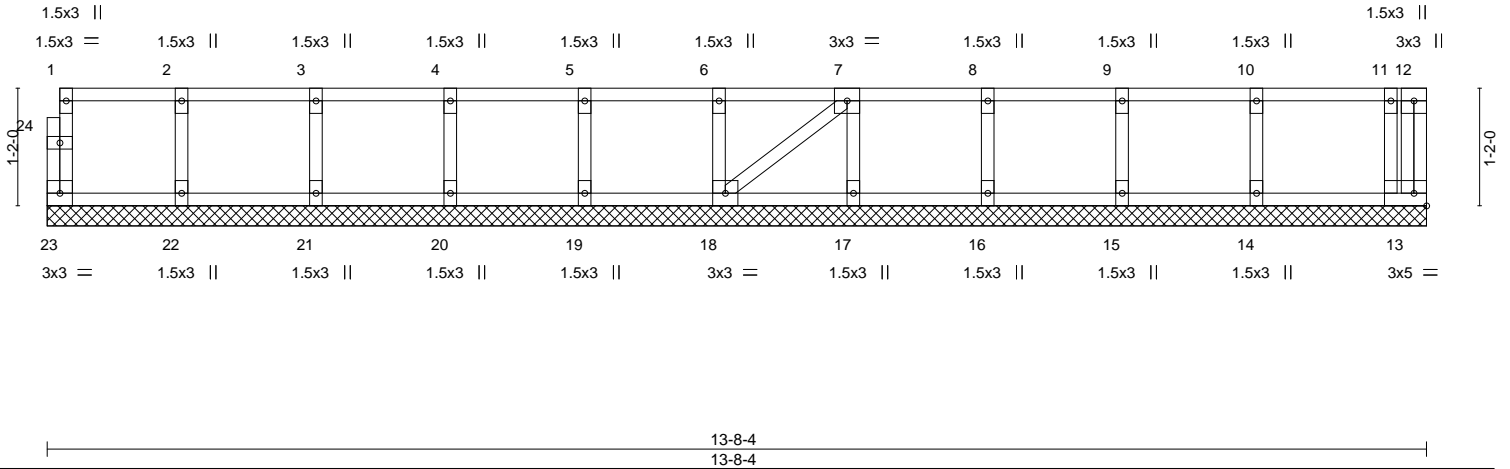
November 4, 2019

Job 2126463	Truss F2E	Truss Type Floor Supported Gable	Qty 2	Ply 1	STOUT / LOT A	E13720442
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:28 2019 Page 1
ID:JMbxoMzM6k0A6?Ocqdk?XByOXGf-ii_kmO8iHW9onsoz990wK1SgHQYhu2A?OI7ebGyMZzL

Scale = 1:22.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.08	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	13	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH					Weight: 62 lb	FT = 20%F, 11%E
	Code IRC2015/TPI2014							

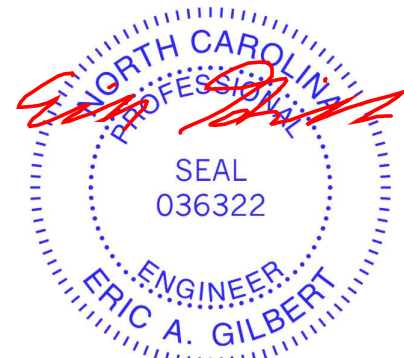
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 13-8-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 23, 13, 22, 21, 20, 19, 18, 17, 16, 15, 14

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.



November 4, 2019

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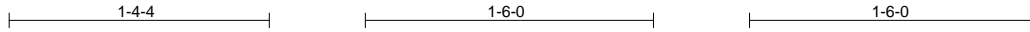


818 Soundside Road
Edenton, NC 27932

Job 2126463	Truss F2G	Truss Type Floor Girder	Qty 1	Ply 1	STOUT / LOT A	E13720443
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:29 2019 Page 1
ID:JMbXoMZM6k0A6?Occkk?XByOXGf-AuY6zk9K2pHfP0N9itX9IE?IPqkdKv8dPtB8iyMZzK



Scale: 1"=1'

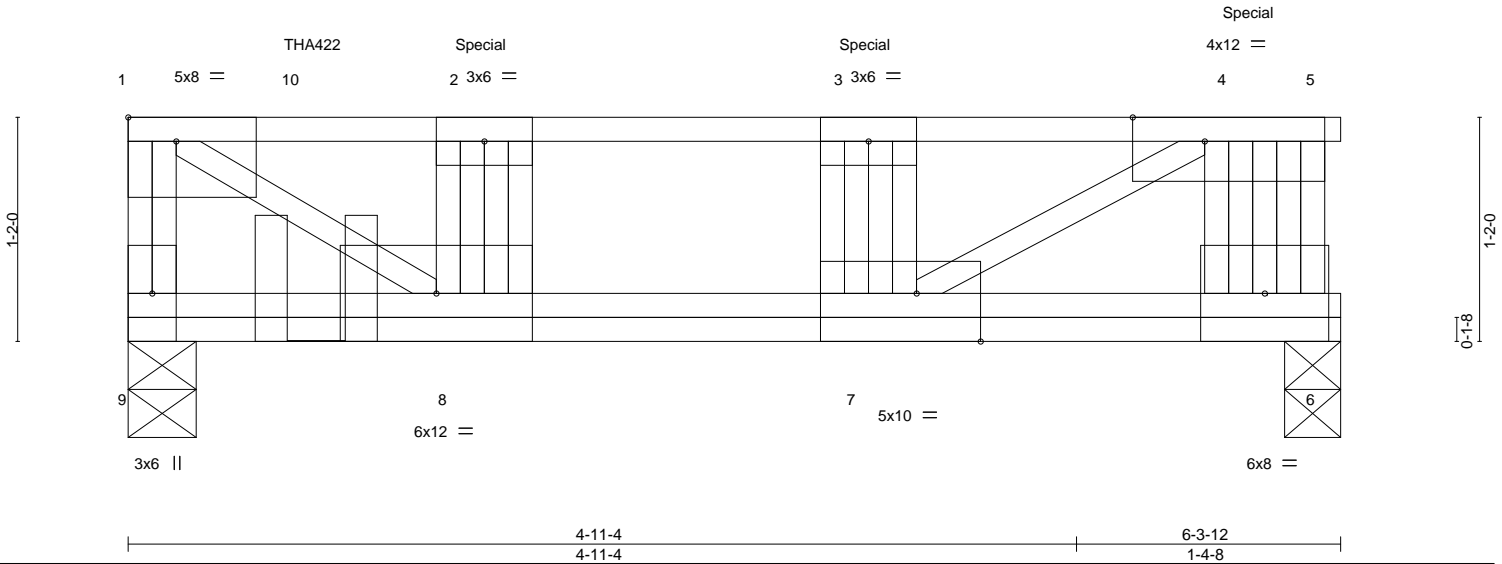


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [4:0-4-8,Edge], [7:0-4-0,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.51	Vert(LL) -0.05 7 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.65	Vert(CT) -0.07 7 >999 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.70	Horz(CT) 0.01 6 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 51 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) *Except*
 1-8: 2x4 SP No.2(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.

(lb/size) 9=1209/0-4-4, 6=1597/0-3-8
 Max Grav 9=1211(LC 3), 6=1610(LC 4)

FORCES.

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

TOP CHORD 1-9=-1261/0, 1-2=-2036/0, 2-3=-2100/0, 3-4=-2043/0
 BOT CHORD 7-8=0/2100, 6-7=0/725
 WEBS 1-8=0/2361, 2-8=-1011/0, 3-7=-824/0, 4-6=-1698/0, 4-7=0/1479

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 0-11-12 from the left end to connect truss(es) to front face of top chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 103 lb down and 156 lb up at 1-10-4, and 103 lb down and 156 lb up at 3-10-4, and 144 lb down and 133 lb up at 5-10-3 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 6-9=-10, 1-5=-100
 Concentrated Loads (lb)
 Vert: 2=-663(F=-63) 3=-663(F=-63) 4=-713(F=-86) 10=-86(F)



November 4, 2019

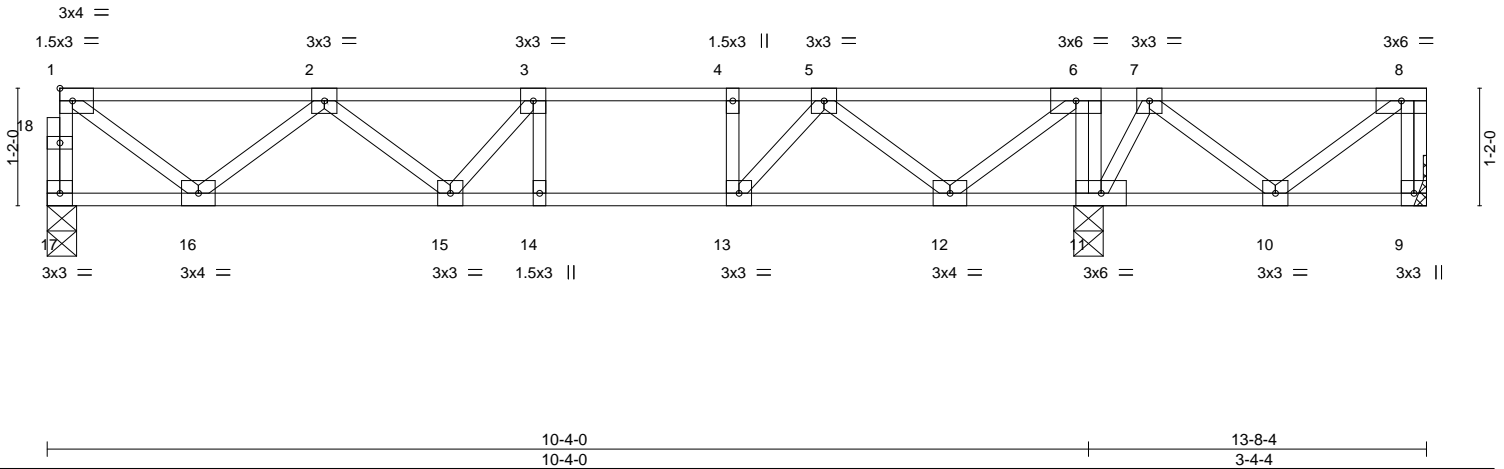
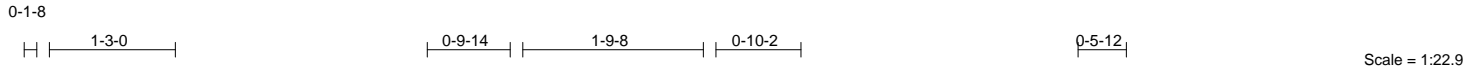
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job 2126463	Truss F3	Truss Type Floor	Qty 3	Ply 1	STOUT / LOT A	E13720444
Builders FirstSource (Albermarle), Albemarle, NC - 28001,					8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:30 2019 Page 1	
					ID:JMbXoMZM6k0A6?OcqdK?XByOXGf-e56UA4Ayp7PW1AyMGa2OQSXwcE3CMtols3cig9yMZzJ	



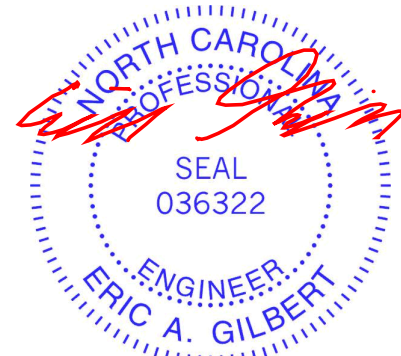
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.48	Vert(LL)	-0.07 14	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.72	Vert(CT)	-0.10 14	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.01 11	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-SH					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.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12,10-11.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 17=519/0-3-8, 9=64/Mechanical, 11=889/0-3-8
 Max Uplift 9=60(LC 3)
 Max Grav 17=521(LC 3), 9=159(LC 7), 11=889(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-17=-515/0, 1-2=-551/0, 2-3=-1142/0, 3-4=-1138/0, 4-5=-1138/0, 5-6=-327/0, 6-7=0/456
 BOT CHORD 15-16=0/1028, 14-15=0/1138, 13-14=0/1138, 12-13=0/849, 11-12=-456/0, 10-11=-267/104
 WEBS 4-13=-258/0, 6-11=-655/0, 1-16=0/664, 2-16=-621/0, 6-12=0/720, 5-12=-724/0, 5-13=0/500, 7-11=-377/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 9.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



November 4, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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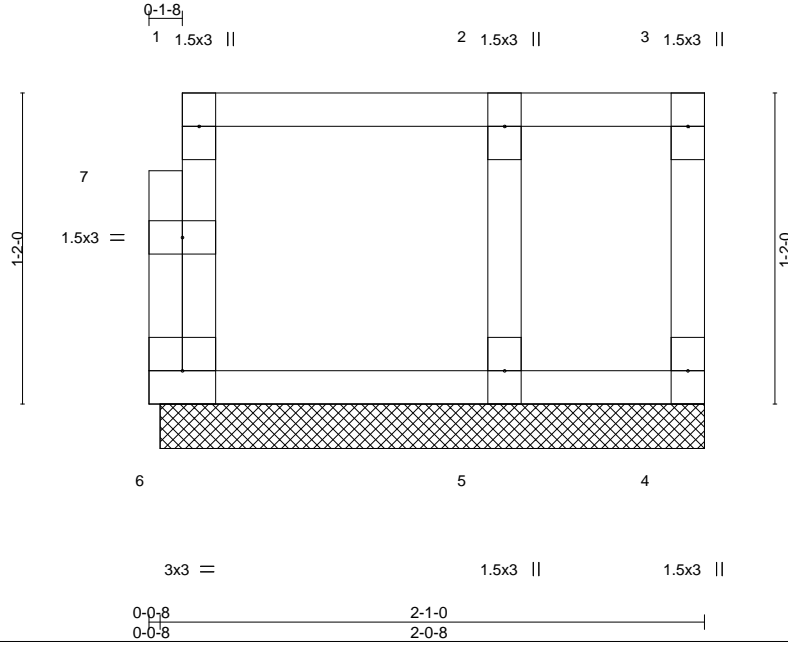


818 Soundside Road
 Edenton, NC 27932

Job 2126463	Truss F3E	Truss Type Floor Supported Gable	Qty 1	Ply 1	STOUT / LOT A	E13720445
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:31 2019 Page 1
ID:JMbXoMZM6k0A6?OcqdK?XByOXGf-6HgsOQBaaRXNeKXYqIZdyf4C_eaL5O1R5jMICbyMZzi



Scale = 1:8.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr YES	WB 0.02	Horz(CT)	0.00	4	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R					Weight: 11 lb	FT = 20%F, 11%E

LUMBER-

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

BRACING-

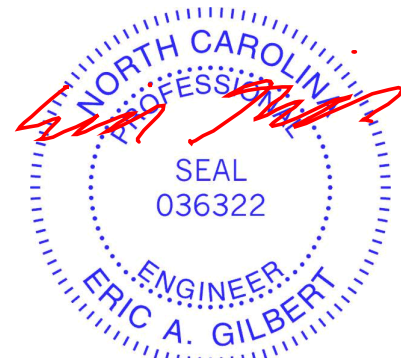
TOP CHORD Structural wood sheathing directly applied or 2-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=57/2-0-8, 4=32/2-0-8, 5=113/2-0-8

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

NOTES-

- 1) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 2) Gable studs spaced at 1-4-0 oc.
- 3) Non Standard bearing condition. Review required.
- 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.



November 4, 2019

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818 Soundside Road
Edenton, NC 27932

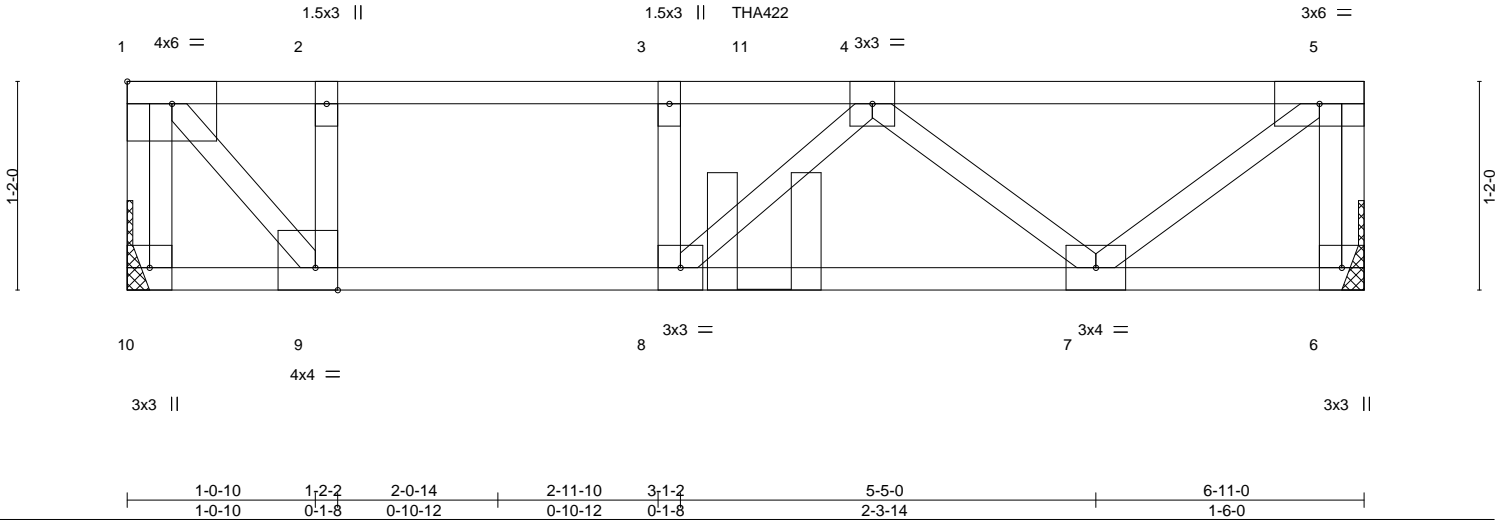
Job 2126463	Truss F3G	Truss Type Floor Girder	Qty 1	Ply 1	STOUT / LOT A	E13720446
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:32 2019 Page 1
ID:JMbXoMZM6k0A6?Ocqdq?XByOXGf-aTEEbmbCLkfEGU6kO?4sVtdAY1iNqk0aJN5sk1yMZzH



Scale = 1:12.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.90	Vert(LL) -0.11	7-8	>747	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.86	Vert(CT) -0.15	7-8	>533	360		
BCLL 0.0	Rep Stress Incr NO	WB 0.49	Horz(CT) 0.01	6	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH					Weight: 37 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1 (flat)
BOT CHORD 2x4 SP No.1 (flat)
WEBS 2x4 SP No.3 (flat)

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

REACTIONS. (lb/size) 10=490/Mechanical, 6=498/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-623/0, 5-6=-516/0, 1-2=-707/0, 2-3=-707/0, 3-4=-707/0, 4-5=-555/0
BOT CHORD 8-9=0/707, 7-8=0/935
WEBS 2-9=-465/0, 1-9=0/1026, 5-7=0/696, 4-7=-494/0, 4-8=-325/0

- 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) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 3-6-12 from the left end to connect truss(es) to front face of top chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
 - 5) Fill all nail holes where hanger is in contact with lumber.
 - 6) 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: 6-10=-10, 1-5=-100

Concentrated Loads (lb)
Vert: 11=-254(F)



November 4, 2019

Job 2126463	Truss F4	Truss Type Floor	Qty 5	Ply 1	STOUT / LOT A	E13720447
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:32 2019 Page 1
ID:JMbXoMzM6k0A6?OcqdK?XByOXGf-aTEEbmBCLkfEGU6kO?4sVtdBz1lCqkCaJN5sk1yMZzH

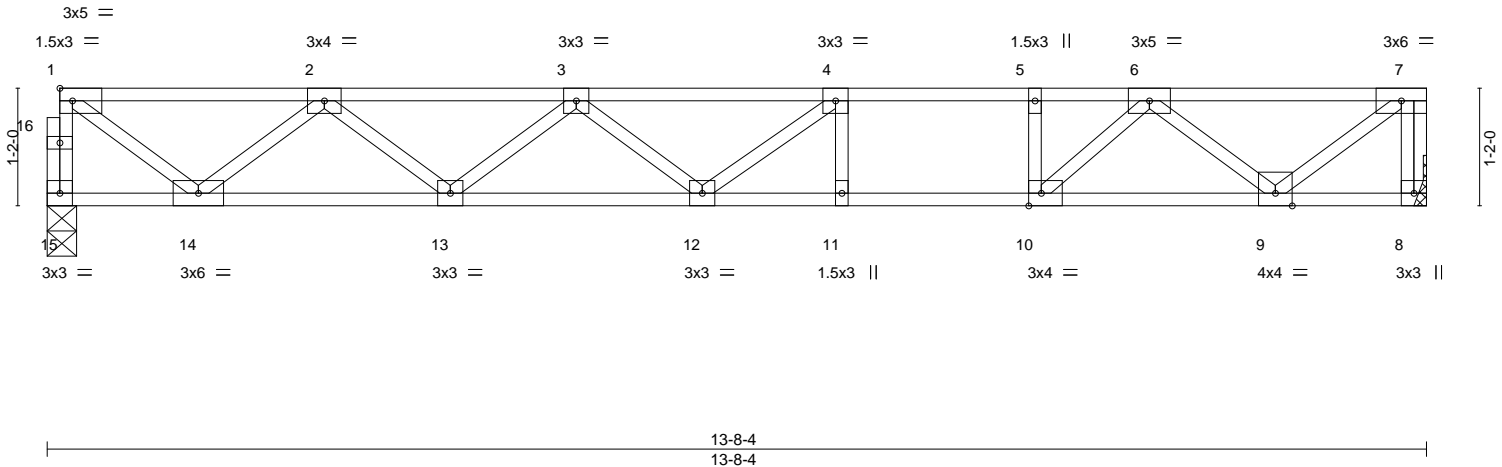
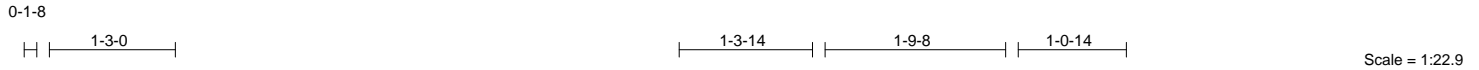


Plate Offsets (X,Y)--	[10:0-1-8,Edge]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.80	Vert(LL)	-0.19 11-12	>857	480
TCDL 10.0	Lumber DOL	1.00	BC 0.68	Vert(CT)	-0.26 11-12	>629	360
BCLL 0.0	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.02 8	n/a	n/a
BCDL 5.0	Code IRC2015/TPI2014		Matrix-SH				
							PLATES MT20
							GRIP 244/190
							Weight: 69 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 15=733/0-3-8, 8=739/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-15=-729/0, 7-8=-704/0, 1-2=-827/0, 2-3=-1934/0, 3-4=-2335/0, 4-5=-2145/0, 5-6=-2145/0, 6-7=-778/0
 BOT CHORD 13-14=0/1543, 12-13=0/2315, 11-12=0/2145, 10-11=0/2145, 9-10=0/1578
 WEBS 4-11=-297/0, 5-10=-328/0, 1-14=0/1001, 2-14=-932/0, 2-13=0/509, 3-13=-496/0, 4-12=-120/352, 7-9=0/976, 6-9=-1041/0, 6-10=0/880

- 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.



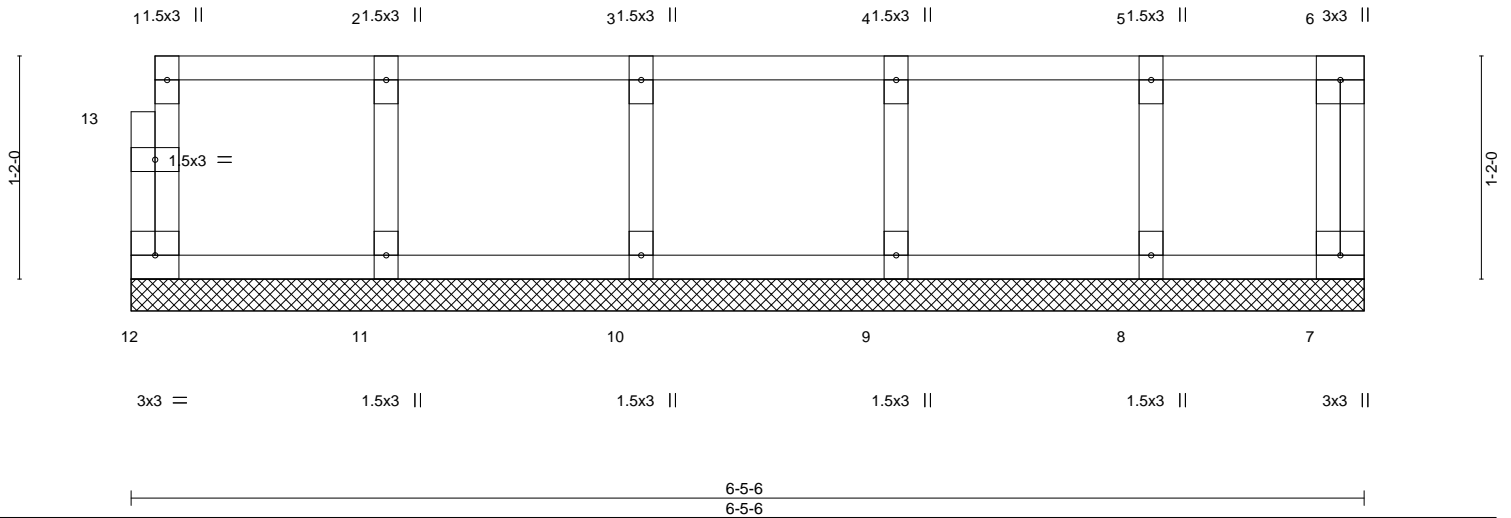
November 4, 2019

Job 2126463	Truss F4E	Truss Type Floor Supported Gable	Qty 1	Ply 1	STOUT / LOT A Job Reference (optional)	E13720448
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:33 2019 Page 1
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Scale: 1"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.08	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 YES	Matrix-R	Horz(CT) 0.00 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 30 lb	FT = 20%F, 11%E

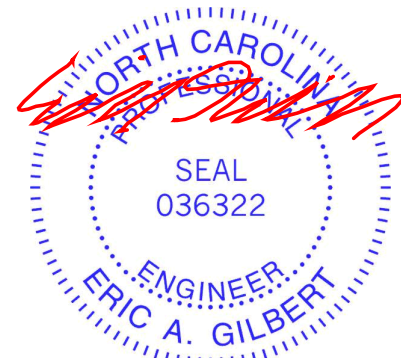
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 6-5-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

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

NOTES-
1) 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.



November 4, 2019

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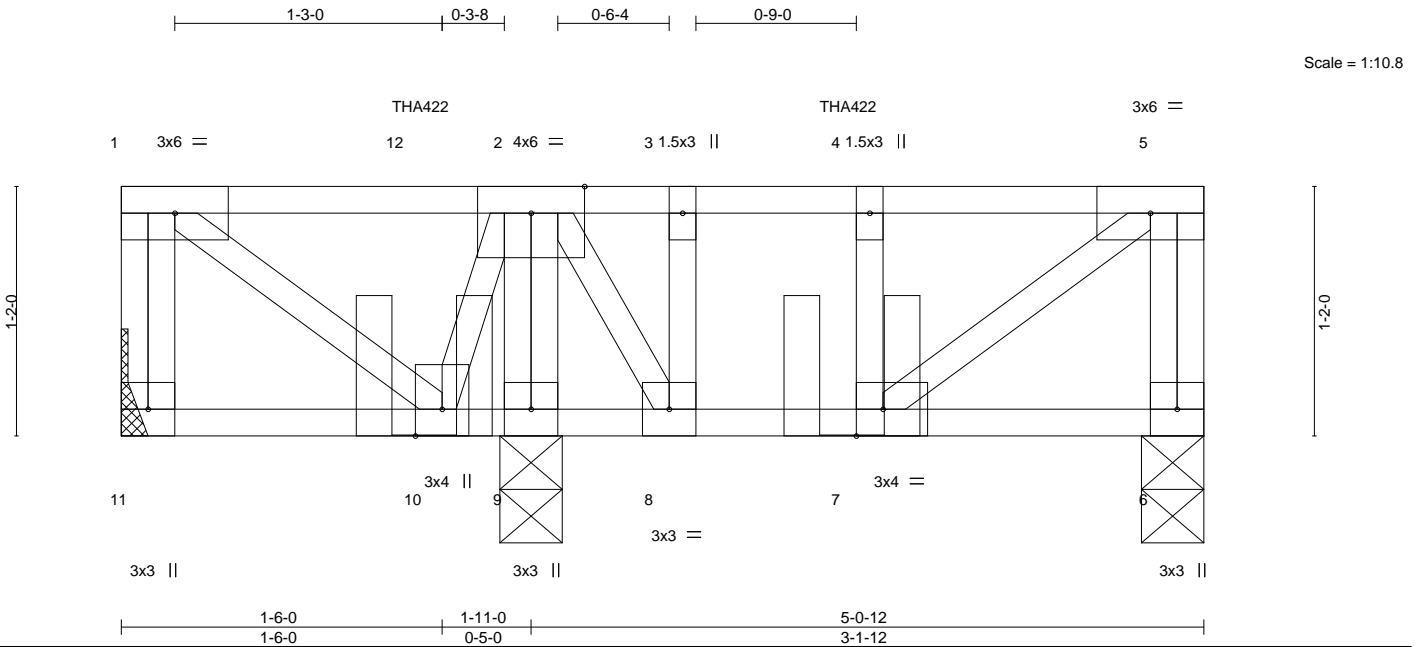
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 2126463	Truss F4G	Truss Type Floor Girder	Qty 1	Ply 1	STOUT / LOT A	E13720449
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:34 2019 Page 1
ID:JMbXoMzM6k0A6?OcqdK?XByOXGF-WsL?0SDTtMvYVnG7VQ7KalifErVlgrtnhaypwyMZzF



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.01	6-7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.02	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 34 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 5-0-12 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. (lb/size) 11=330/Mechanical, 6=525/0-3-8, 9=195/0-3-8
Max Grav 11=347(LC 8), 6=530(LC 8), 9=222(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-340/0, 5-6=-500/0, 1-2=-329/0, 2-3=-577/0, 3-4=-577/0, 4-5=-577/0
BOT CHORD 9-10=0/413, 8-9=0/414, 7-8=0/577
WEBS 2-9=-299/0, 1-10=0/413, 5-7=0/713, 2-8=0/339, 4-7=-512/0

- 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.
 - 5) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-5-0 from the left end to 3-5-0 to connect truss(es) to front face of top chord.
 - 6) Fill all nail holes where hanger is in contact with lumber.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-11=-10, 1-5=-100
Concentrated Loads (lb)
Vert: 4=-447(F) 12=-74(F)

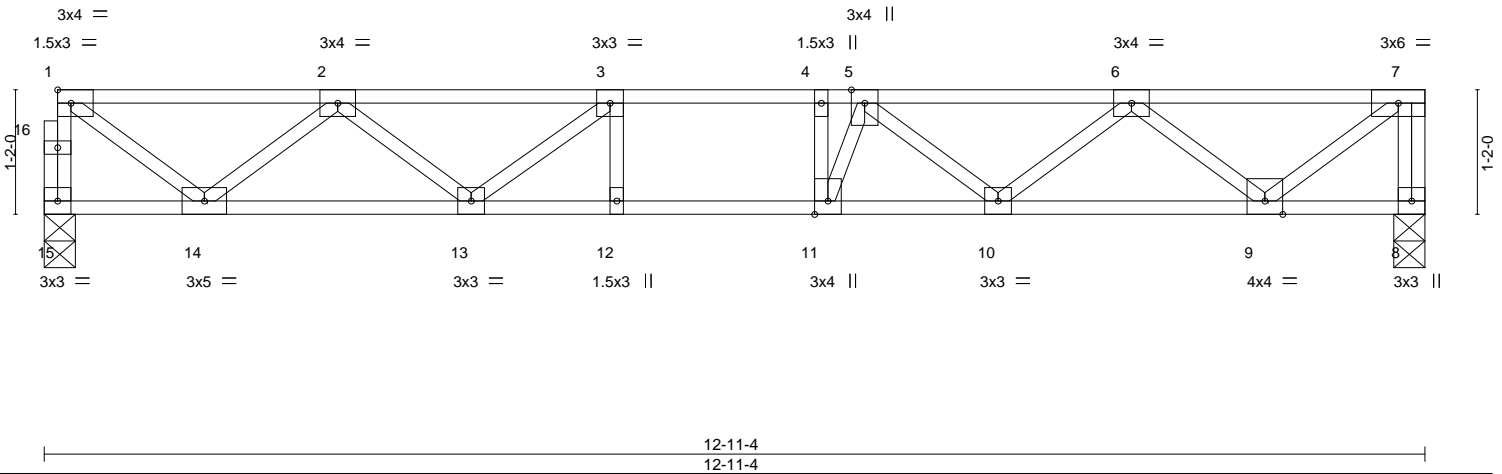
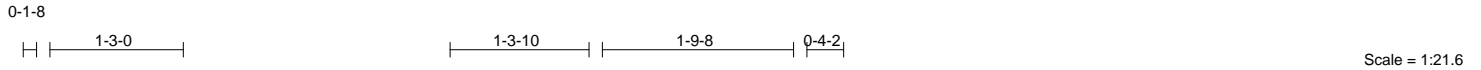


November 4, 2019

Job 2126463	Truss F5	Truss Type Floor	Qty 3	Ply 1	STOUT / LOT A Job Reference (optional)	E13720450
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:34 2019 Page 1
ID:JMbxoMzM6k0A6?Ocqdk?XByOXGf-WsL?0SDTtMvyVnG7VQ7KalidSrQ_1ewtnhaypwyMZzF



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.73	Vert(LL) -0.10 10-11 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.46	Vert(CT) -0.14 10-11 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.03 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 66 lb	FT = 20%F, 11%E

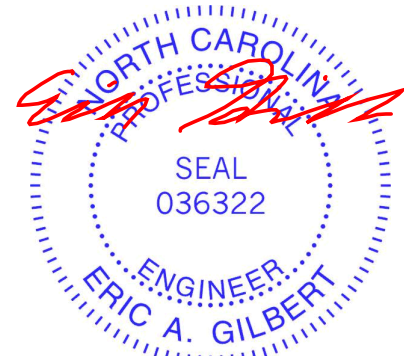
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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. (lb/size) 15=692/0-3-8, 8=698/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-687/0, 7-8=-692/0, 1-2=-777/0, 2-3=-1772/0, 3-4=-2095/0, 4-5=-1775/0, 6-7=-775/0
BOT CHORD 13-14=0/1453, 12-13=0/2095, 11-12=0/2095, 10-11=0/2069, 9-10=0/1454
WEBS 4-11=-308/120, 1-14=0/940, 2-14=-879/0, 2-13=0/433, 3-13=-501/0, 7-9=0/972, 6-9=-884/0, 6-10=0/418,
5-10=-391/0, 5-11=-203/429

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.



November 4, 2019

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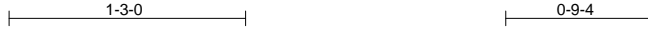
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 2126463	Truss F5G	Truss Type Floor Girder	Qty 1	Ply 1	STOUT / LOT A	E13720451
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:35 2019 Page 1

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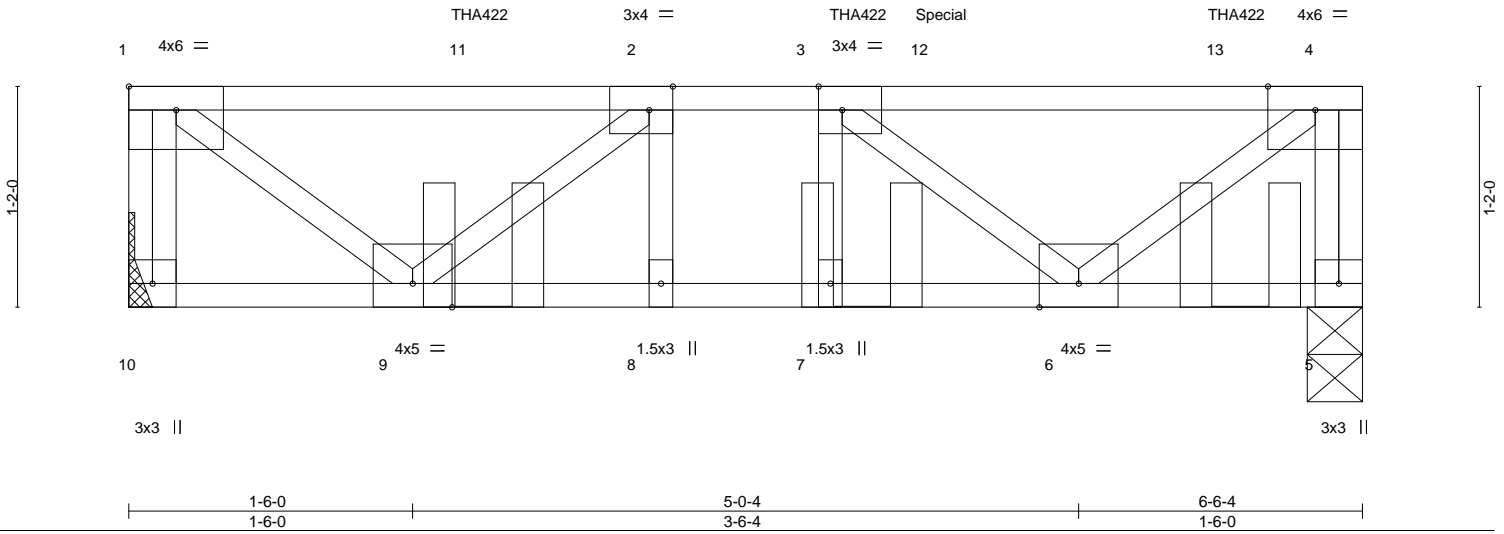


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.62	Vert(LL) -0.03 6-7 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.70	Vert(CT) -0.05 6-7 >999 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.53	Horz(CT) 0.01 5 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 37 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(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. (lb/size) 10=789/Mechanical, 5=922/0-3-8
Max Grav 10=789(LC 3), 5=922(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-774/0, 4-5=-926/0, 1-2=-808/0, 2-3=-1638/0, 3-4=-895/0
BOT CHORD 8-9=0/1638, 7-8=0/1638, 6-7=0/1638
WEBS 4-6=0/1122, 1-9=0/1014, 3-6=-951/0, 2-9=-1060/0

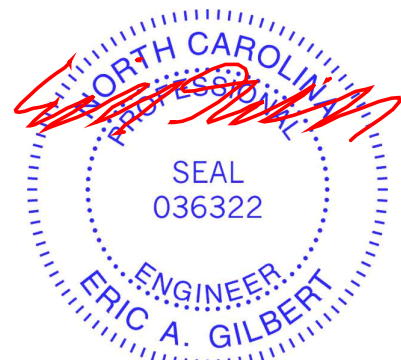
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-10-8 from the left end to 5-10-8 to connect truss(es) to back face of top chord.
 - 5) Fill all nail holes where hanger is in contact with lumber.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 454 lb down at 4-3-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)
Vert: 5-10=-10, 1-4=-100

Concentrated Loads (lb)
Vert: 3=-267(B) 11=-267(B) 12=-390(B) 13=-98(B)

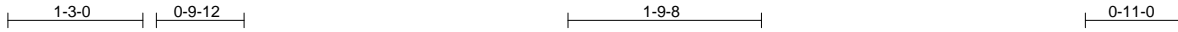


November 4, 2019

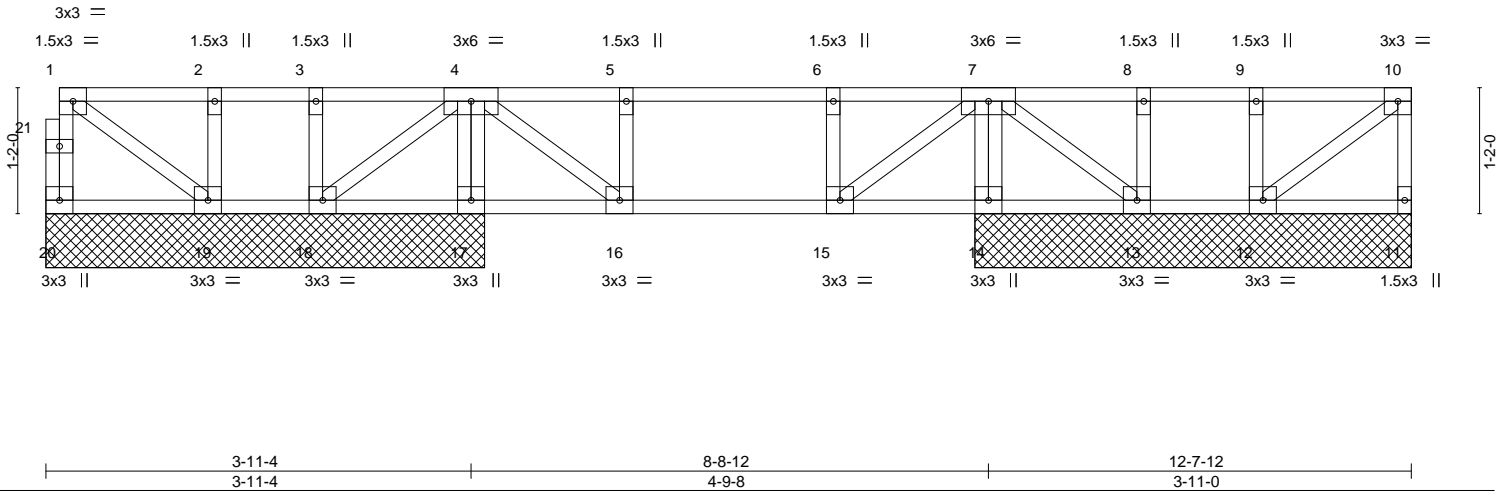
Job 2126463	Truss F6	Truss Type Floor	Qty 1	Ply 1	STOUT / LOT A	E13720452
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:36 2019 Page 1
ID:JMbXoMzMM6k0A6?OcqdK?XByOXGf-TFTIR7EjPz9gl5PVdr9ofjn0EfGnmDAAE?33toyMzZD



Scale = 1:21.3



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)	-0.00 16	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.07	Vert(CT)	-0.00 15-16	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.16	Horz(CT)	-0.00 11	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-SH					Weight: 69 lb	FT = 20%F, 11%E

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 15-16,11-12.

REACTIONS. All bearings 4-0-12 except (jt=length) 11=4-0-8, 14=4-0-8, 12=4-0-8, 13=4-0-8.
 (lb) - Max Uplift All uplift 100 lb or less at joint(s) 20, 18
 Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 12, 13 except 17=402(LC 9), 14=402(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 4-17=-381/0, 7-14=-381/0, 7-15=0/319, 4-16=0/330

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20 and 18. This connection is for uplift only and does not consider lateral forces.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



November 4, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



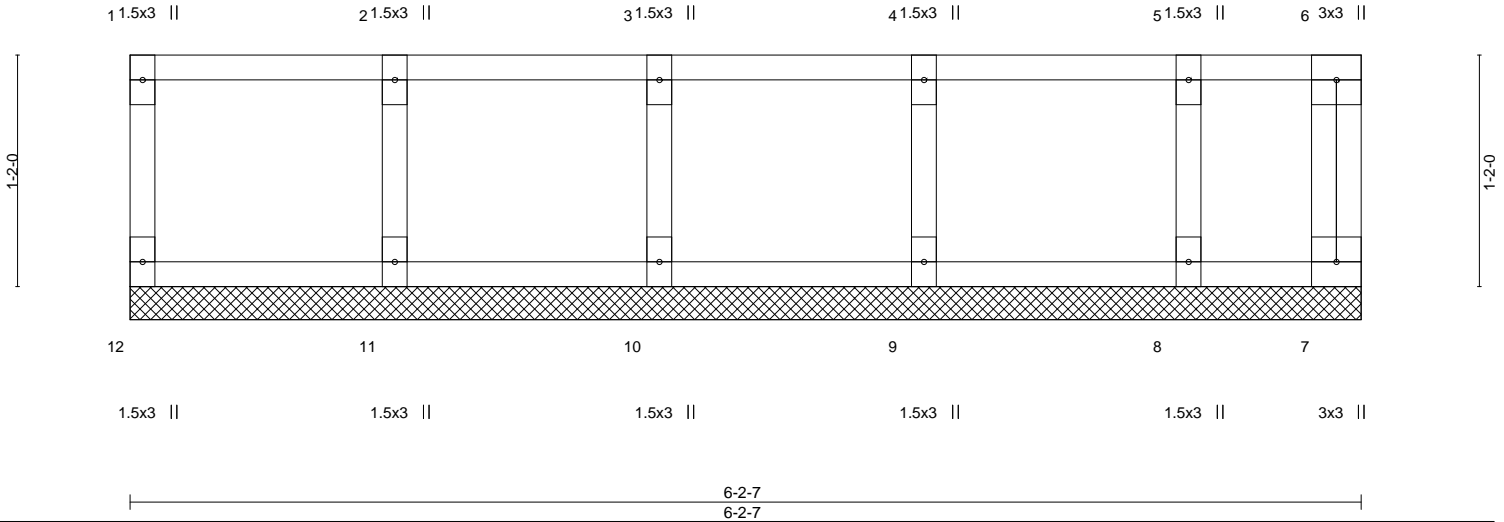
818 Soundside Road
 Edenton, NC 27932

Job 2126463	Truss F6E	Truss Type Floor Supported Gable	Qty 1	Ply 1	STOUT / LOT A Job Reference (optional)	E13720453
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:37 2019 Page 1
ID:JMbXoMZM6k0A6?Ocqdq?XByOXGf-xR17eTFLAHHWMF_iAYg1CwKc02doV6OKTfpdQFyMzZC

Scale = 1:11.6



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0 Plate Grip DOL 1.00	TC 0.08	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 YES	WB 0.03	Horz(CT) 0.00	7	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R					Weight: 28 lb	FT = 20%F, 11%E

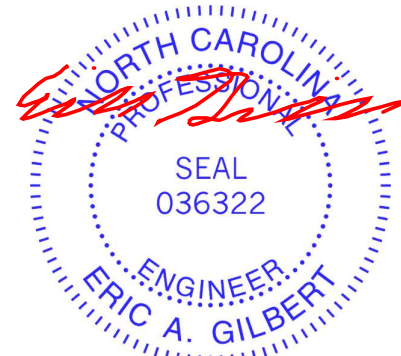
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 6-2-7.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

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

NOTES-
1) 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.



November 4, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 2126463	Truss F7	Truss Type Floor	Qty 6	Ply 1	STOUT / LOT A	E13720454
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:37 2019 Page 1
ID:JMbXoMZM6k0A6?Ocqdq?XByOXGf-xR17eTFLAHHWMF_iAYg1CwK4f2QRV_OKTfpdQFyMZzC

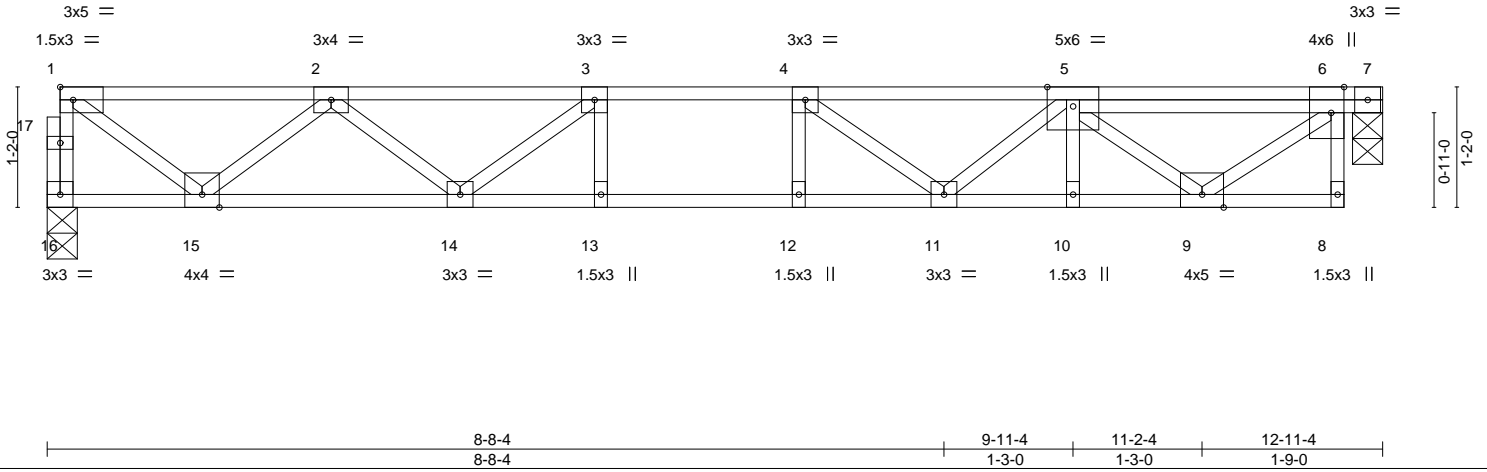
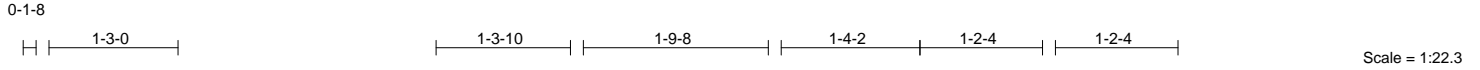


Plate Offsets (X,Y)--	[6:0-3-0,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00		TC 0.62	Vert(LL) -0.13	11-12	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00		BC 0.87	Vert(CT) -0.17	11-12	>894	360		
BCLL 0.0	Rep Stress Incr YES		WB 0.54	Horz(CT) 0.01	7	n/a	n/a		
BCDL 5.0	Code IRC2015/TP12014		Matrix-SH					Weight: 68 lb	FT = 20%F, 11%E

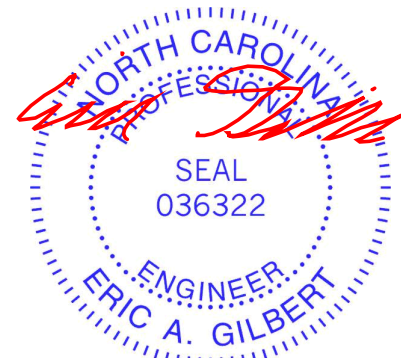
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

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. (lb/size) 16=698/0-3-8, 7=700/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-694/0, 1-2=-786/0, 2-3=-1796/0, 3-4=-2143/0, 4-5=-1954/0, 5-6=-914/0
BOT CHORD 14-15=0/1468, 13-14=0/2143, 12-13=0/2143, 11-12=0/2143, 10-11=0/1716, 9-10=0/1716
WEBS 1-15=0/951, 2-15=-887/0, 2-14=0/439, 3-14=-539/0, 6-9=0/1141, 5-9=-1039/0, 5-11=0/341, 4-11=-423/1

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.



November 4, 2019

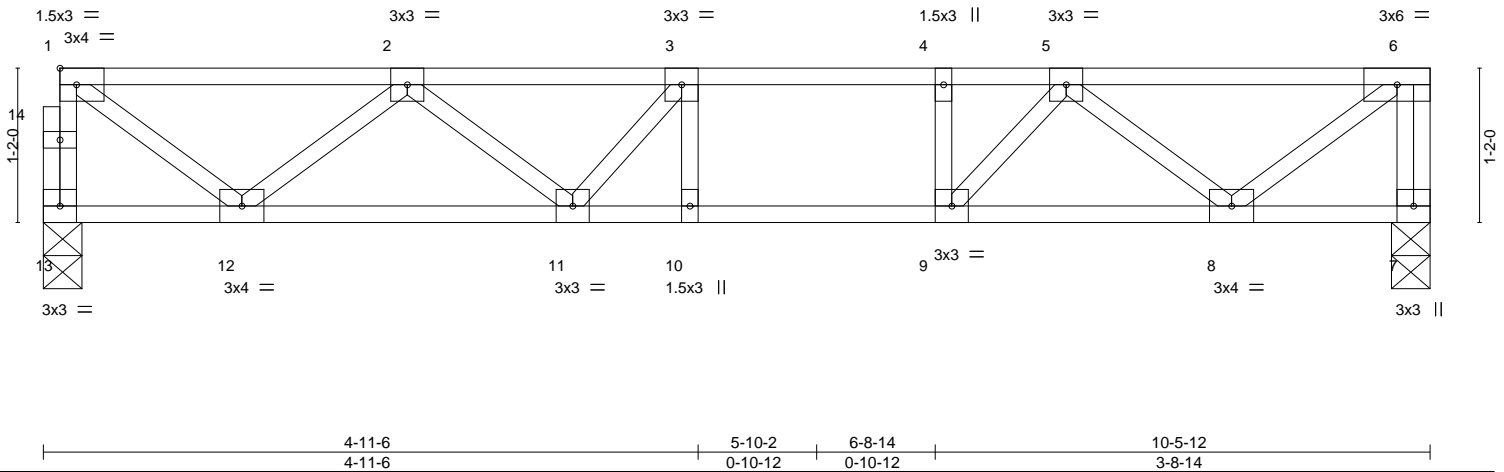
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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

Job 2126463	Truss F8	Truss Type Floor	Qty 2	Ply 1	STOUT / LOT A	E13720455
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:38 2019 Page 1
ID:JMbXoMzM6k0A6?OcqdK?XByOXGF-PdbWspGzxaPN_PZukGBGk8sHvSnFEUJTijYAyhyMZzB



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.71	Vert(LL) -0.07 10 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.35	Vert(CT) -0.10 10 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 7 n/a n/a	Weight: 54 lb	FT = 20%F, 11%E
	Code IRC2015/TPI2014				

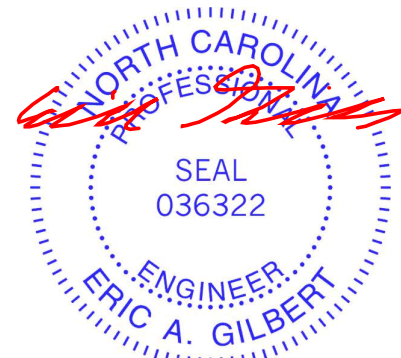
LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)

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. (lb/size) 13=556/0-3-8, 7=563/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-13=-551/0, 6-7=-549/0, 1-2=-597/0, 2-3=-1277/0, 3-4=-1330/0, 4-5=-1330/0, 5-6=-580/0
 BOT CHORD 11-12=0/1113, 10-11=0/1330, 9-10=0/1330, 8-9=0/1116
 WEBS 1-12=0/720, 2-12=-672/0, 2-11=0/280, 6-8=0/728, 5-8=-698/0, 5-9=0/478

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.



November 4, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

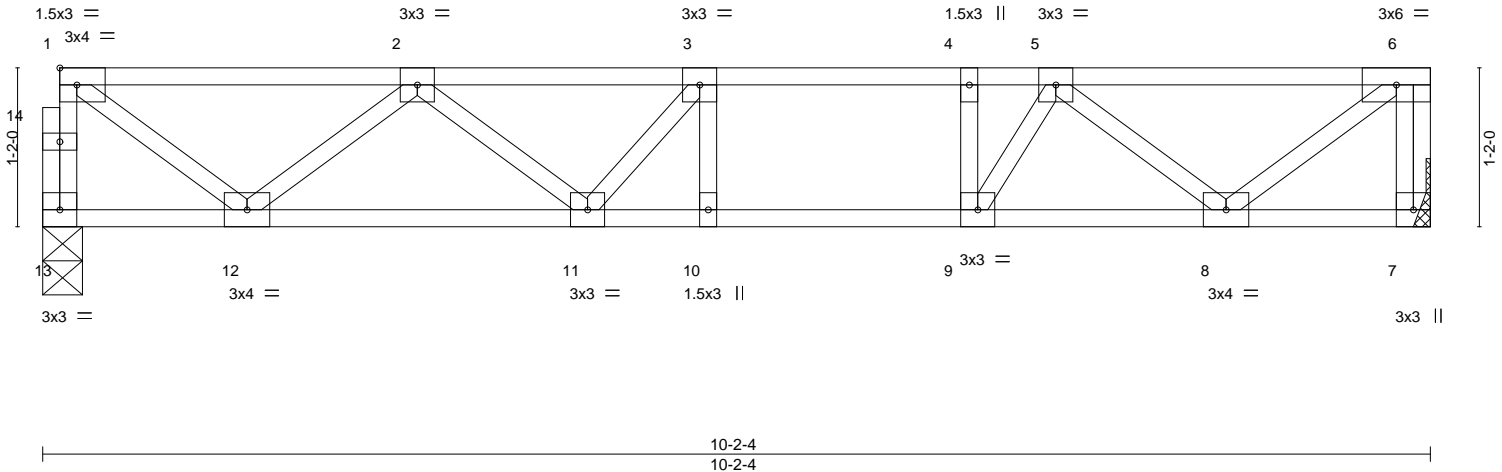


818 Soundside Road
Edenton, NC 27932

Job 2126463	Truss F9	Truss Type Floor	Qty 1	Ply 1	STOUT / LOT A Job Reference (optional)	E13720456
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Builders FirstSource (Albemarle), Albemarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:39 2019 Page 1
ID:JMbXoMZM6k0A6?OcqdK?XByOXGF-tp9u39HbiuXEcZ84IziVHLPSIs7Vz9cwzljU7yMzZA



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.71	Vert(LL) -0.07 10 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.33	Vert(CT) -0.09 10 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 7 n/a n/a	Weight: 53 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)

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. (lb/size) 13=540/0-3-8, 7=547/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-13=-534/0, 6-7=-532/0, 1-2=-576/0, 2-3=-1216/0, 3-4=-1246/0, 4-5=-1246/0, 5-6=-559/0
 BOT CHORD 11-12=0/1075, 10-11=0/1246, 9-10=0/1246, 8-9=0/1089
 WEBS 4-9=-298/0, 1-12=0/695, 2-12=-649/0, 2-11=0/254, 6-8=0/702, 5-8=-689/0, 5-9=0/491

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



November 4, 2019

Job 2126463	Truss F10	Truss Type Floor	Qty 2	Ply 1	STOUT / LOT A	E13720457
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:26 2019 Page 1
ID:JMbXoMZM6k0A6?OcqdK?XByOXGf-IJszLi7Smuu4YZfa1k_SFcNCsdj7Q38ixReXXNyMzZn



Scale = 1:12.9

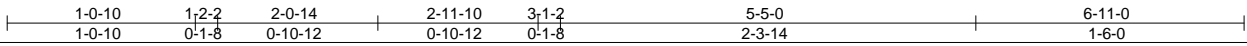
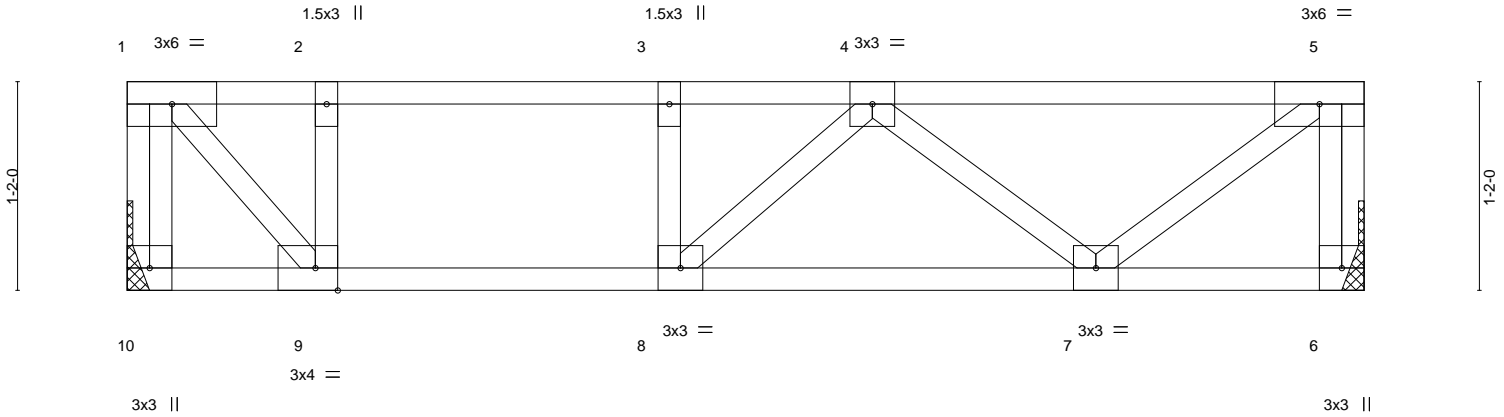


Plate Offsets (X,Y)-- [9:0-1-8,Edge]

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 0.59	Vert(LL)	-0.07	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.60	Vert(CT)	-0.09	7-8	>862		
BCLL 0.0	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.00	6	n/a		
BCDL 5.0	Code IRC2015/TP12014		Matrix-SH						
								Weight: 37 lb	FT = 20%F, 11%E

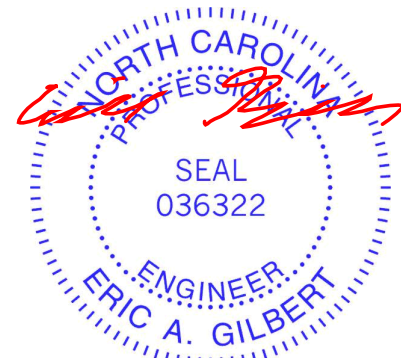
LUMBER-
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)

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. (lb/size) 10=367/Mechanical, 6=367/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-10=-433/0, 5-6=-374/0, 1-2=-465/0, 2-3=-465/0, 3-4=-465/0, 4-5=-356/0
 BOT CHORD 8-9=0/465, 7-8=0/604
 WEBS 2-9=-338/0, 1-9=0/675, 5-7=0/447, 4-7=-322/0

- 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.



November 4, 2019

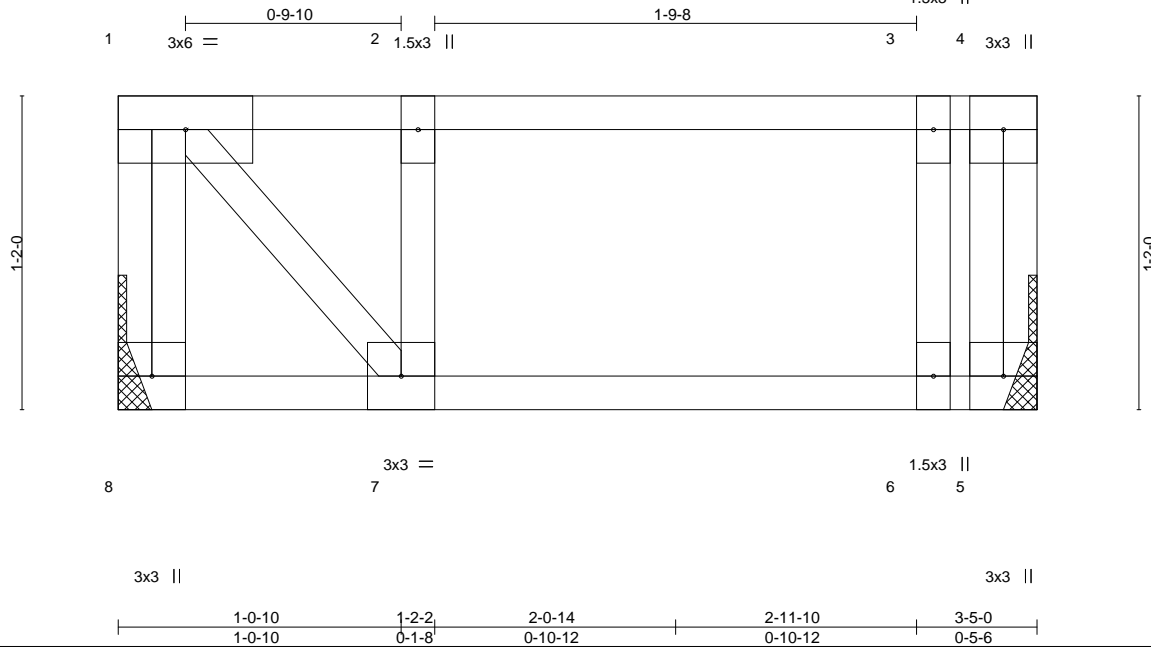
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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

Job 2126463	Truss F12	Truss Type Floor	Qty 1	Ply 1	STOUT / LOT A	E13720458
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Builders FirstSource (Albermarle), Albermarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:26 2019 Page 1
ID:JMbXoMzM6k0A6?OcqdK?XByOXGf-IJszLi7Smjuu4YZfa1k_SFcNEhdIrk8pixReXXNyMZzN



Scale = 1:8.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.47	Vert(LL) -0.06	6-7	>597	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.49	Vert(CT) -0.09	6-7	>432	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.02	Horz(CT) -0.00	5	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH					Weight: 20 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)

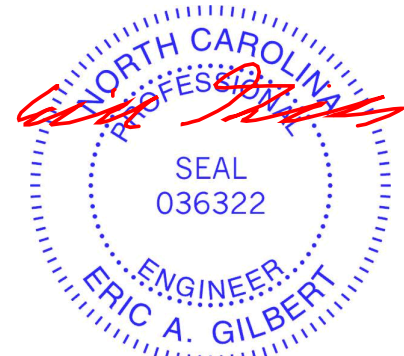
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=174/Mechanical, 5=174/Mechanical

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

NOTES-

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



November 4, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

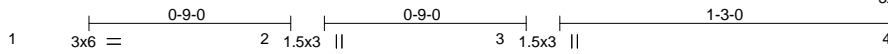


818 Soundside Road
Edenton, NC 27932

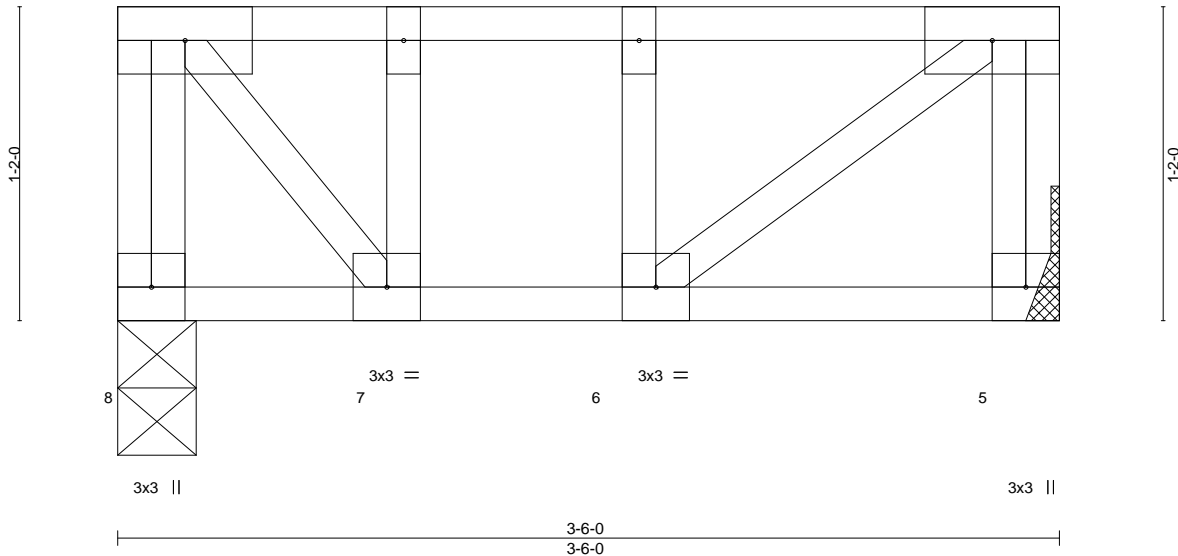
Job 2126463	Truss F31	Truss Type Floor	Qty 1	Ply 1	STOUT / LOT A	E13720459
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Builders FirstSource (Albermarle), Albemarle, NC - 28001,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 4 11:49:31 2019 Page 1
 ID:JMbXoMZM6k0A6?Ocqdk?XByOXGf-6HgsOQBaaRXNekXYqIZdyf4AgeZw5NsR5jMICbyMZl
 3x6 =



Scale = 1:8.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.14	Vert(LL)	-0.00	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.11	Vert(CT)	-0.01	6	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	5	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-SH					Weight: 23 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 3-6-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=179/0-3-8, 5=179/Mechanical

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

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



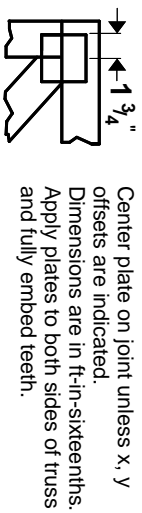
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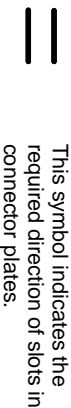
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



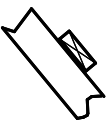
* Plate location details available in **MITrak 20/20 software or upon request.**

PLATE SIZE

4 X 4

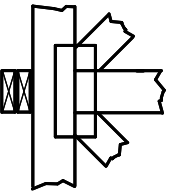
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

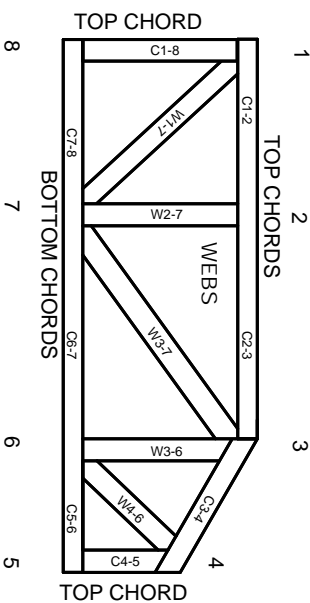


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: MI1-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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