ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Kimberly_FL
Lamco Custom Homes

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: E12977799 thru E12977813

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

North Carolina COA: C-0844

April 30,2019

Gilbert, Eric

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes
Kimberly_FL	F01	Floor	1	1	E12977799
					Job Reference (optional)

Builders FirstSource, Albemarle , NC 28001 — 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 13:53:21 2019 Page 1
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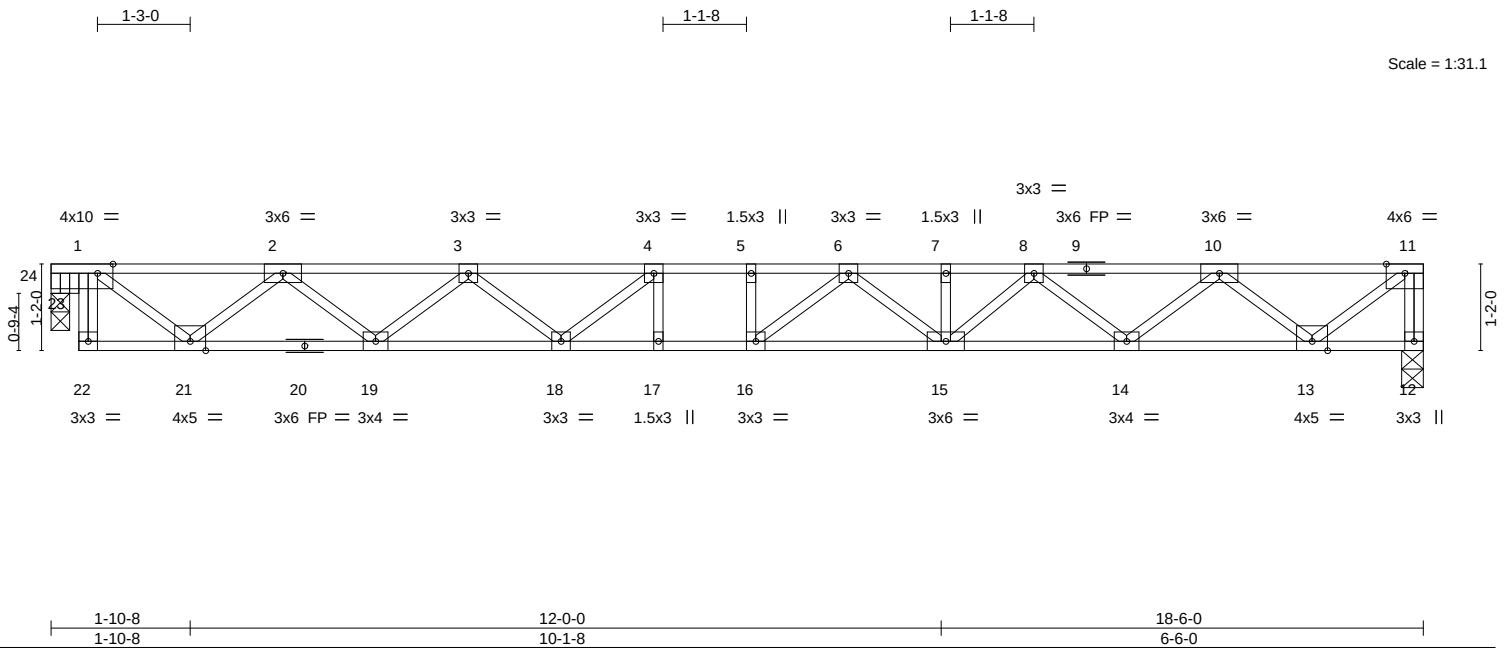

Plate Offsets (X,Y)-- [1:0-2-8,Edge], [24:0-0-12,0-1-10]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.26	16	>844	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.36	16	>611	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 95 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)
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. (lb/size) 12=799/0-3-8, 24=772/0-3-0

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 11-12=-794/0, 1-2=-1141/0, 2-3=-2446/0, 3-4=-3206/0, 4-5=-3465/0, 5-6=-3465/0, 6-7=-3157/0, 7-8=-3157/0, 8-10=-2313/0, 10-11=-937/0
BOT CHORD 21-22=0/265, 19-21=0/1920, 18-19=0/2947, 17-18=0/3465, 16-17=0/3465, 15-16=0/3392, 14-15=0/2834, 13-14=0/1768
WEBS 11-13=0/1175, 1-21=0/1100, 10-13=-1083/0, 2-21=-1013/0, 10-14=0/708, 2-19=0/685, 8-14=-679/0, 3-19=-652/0, 8-15=0/430, 3-18=0/413, 6-15=-323/0, 4-18=-485/0, 6-16=-181/369, 1-24=-1150/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Bearing at joint(s) 24 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
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 30,2019

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Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes
Kimberly_FL	F01E	Floor Supported Gable	1	1	E12977800 Job Reference (optional)

Builders FirstSource, Albemarle , NC 28001 — 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 13:53:22 2019 Page 1
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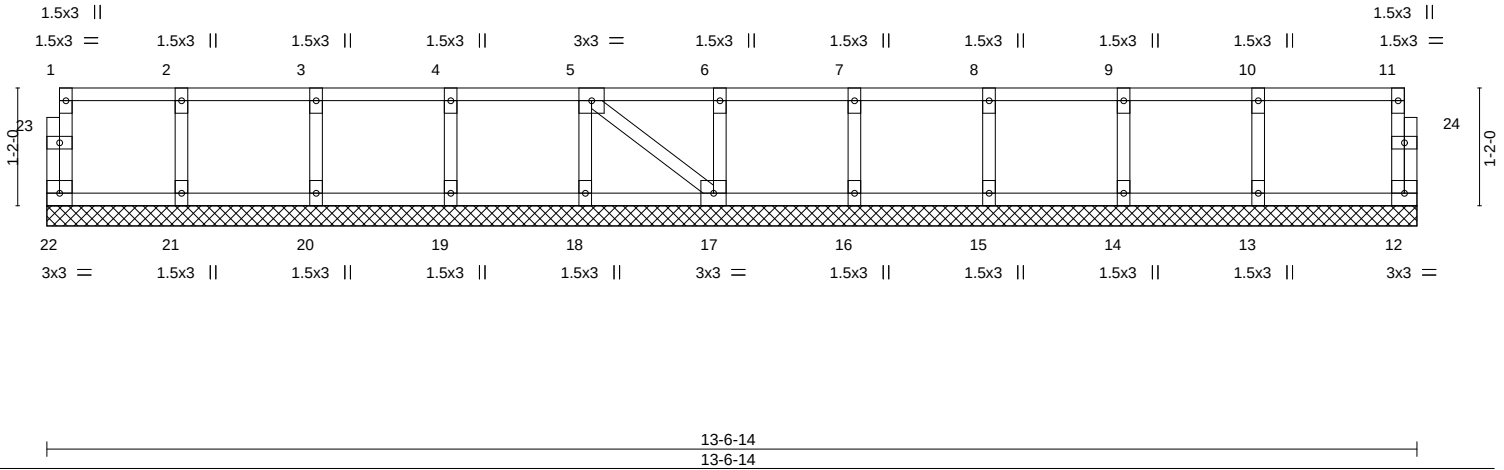

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 59 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)
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 13-6-14.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 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) 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.

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Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes
Kimberly_FL	F01G	Floor Girder	1	1	E12977801
					Job Reference (optional)

Builders FirstSource, Albemarle , NC 28001 — 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 13:53:24 2019 Page 1
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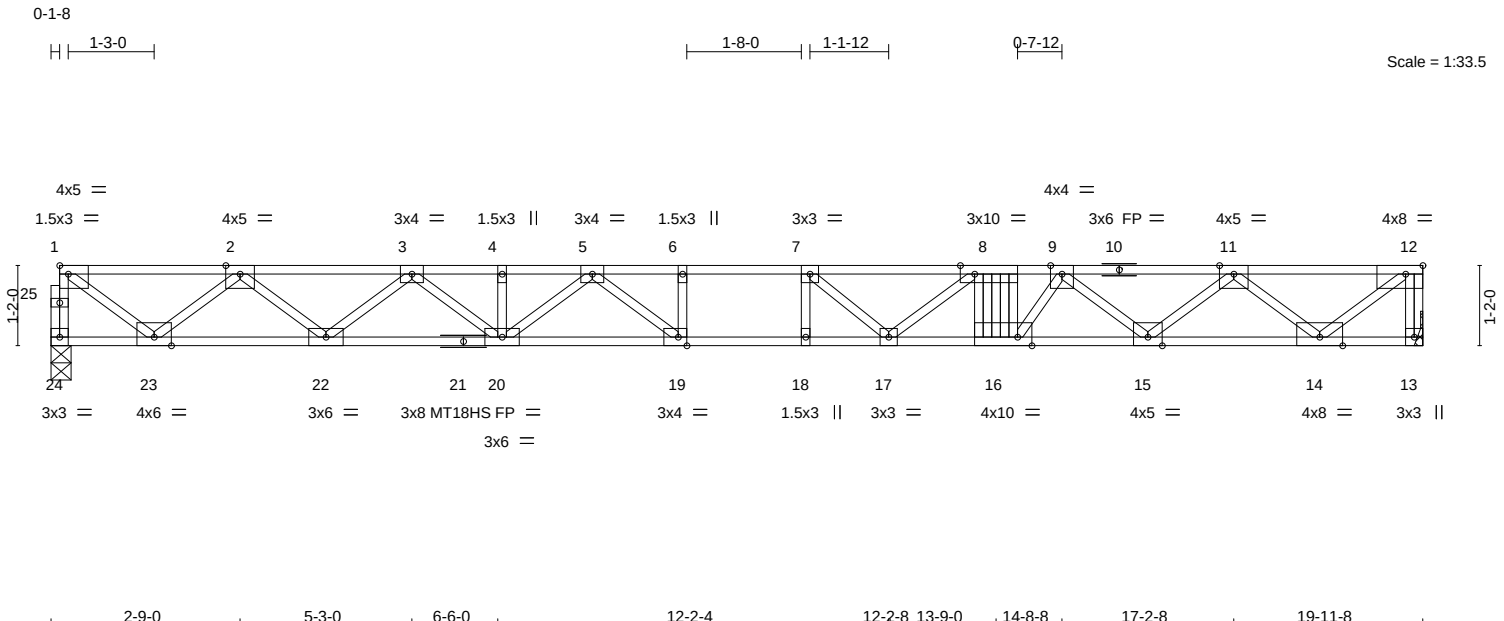

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-2-8,Edge], [12:0-3-0,Edge], [16:0-2-8,Edge], [19:0-1-8,Edge]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.41	18	>573	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.57	18	>417	240	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.08	13	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 107 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
13-21: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 24=955/0-3-8, 13=1073/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-24=-950/0, 12-13=-1066/0, 1-2=-1148/0, 2-3=-2910/0, 3-4=-4163/0, 4-5=-4163/0, 5-6=-4958/0, 6-7=-4958/0, 7-8=-4917/0, 8-9=-4702/0, 9-11=-3324/0, 11-12=-1296/0
BOT CHORD 22-23=0/2170, 20-22=0/3616, 19-20=0/4601, 18-19=0/4958, 17-18=0/4958, 16-17=0/4755, 15-16=0/4165, 14-15=0/2456
WEBS 12-14=0/1626, 1-23=0/1392, 11-14=-1511/0, 2-23=-1331/0, 11-15=0/1129, 2-22=0/963, 9-15=-1095/0, 3-22=-919/0, 9-16=0/811, 3-20=0/699, 8-17=-53/418, 5-20=-581/0, 7-17=-466/303, 5-19=-59/750, 6-19=-267/0, 8-16=-608/0, 7-18=-256/138

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-24=-8, 1-12=-80
Concentrated Loads (lb)
Vert: 8=-300

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Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes
Kimberly_FL	F02	Floor	5	1	E12977802
					Job Reference (optional)

Builders FirstSource, Albemarle , NC 28001 — 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 13:53:25 2019 Page 1
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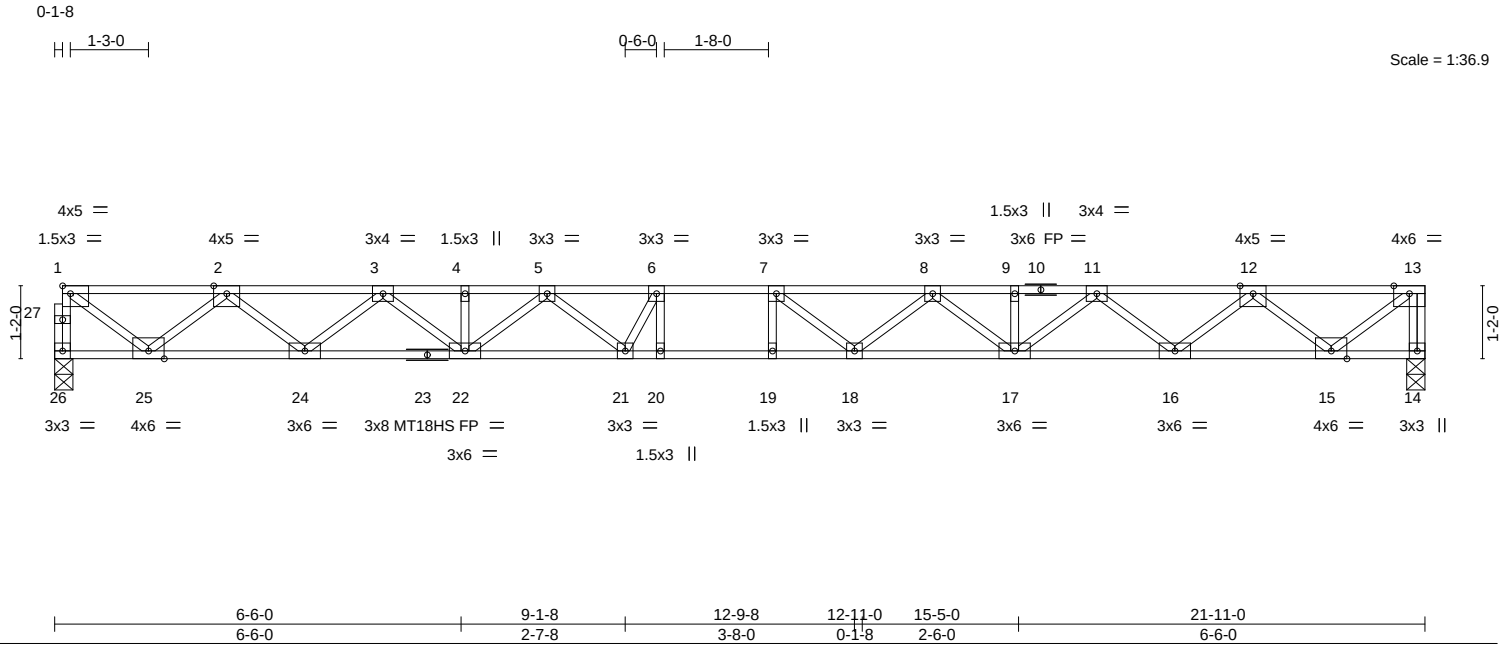

Plate Offsets (X,Y)-- [1:Edge,0-1-8]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.47	19	>554	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.64	19	>403	240	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.08	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 112 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
14-23: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 26=948/0-3-8, 14=953/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-26=-943/0, 13-14=-946/0, 1-2=-1139/0, 2-3=-2881/0, 3-4=-4126/0, 4-5=-4126/0, 5-6=-4788/0, 6-7=-4920/0, 7-8=-4763/0, 8-9=-4119/0, 9-11=-4119/0, 11-12=-2882/0, 12-13=-1137/0
BOT CHORD 24-25=0/2151, 22-24=0/3585, 21-22=0/4543, 20-21=0/4920, 19-20=0/4920, 18-19=0/4920, 17-18=0/4568, 16-17=0/3586, 15-16=0/2152
WEBS 13-15=0/1426, 1-25=0/1382, 12-15=-1322/0, 2-25=-1317/0, 12-16=0/950, 2-24=0/950, 11-16=-916/0, 3-24=-917/0, 11-17=0/681, 3-22=0/691, 8-17=-574/0, 5-22=-531/0, 8-18=0/404, 5-21=0/492, 7-18=-500/157, 6-21=-603/179, 6-20=-235/353

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

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Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes
Kimberly_FL	F02E	Floor Supported Gable	1	1	E12977803
					Job Reference (optional)

Builders FirstSource, Albemarle , NC 28001 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 13:53:26 2019 Page 1
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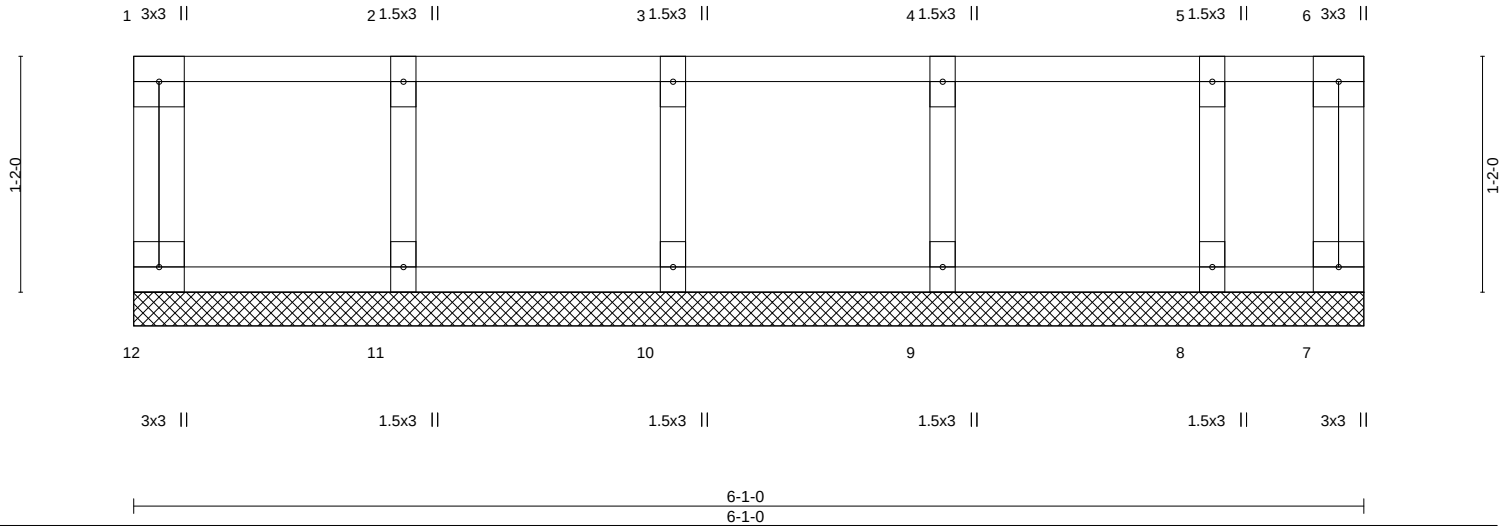

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 29 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)
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 6-1-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

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

NOTES-
1) 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.

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Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes
Kimberly_FL	F02G	FLOOR GIRDER	1	1	E12977804
					Job Reference (optional)

Builders FirstSource, Albemarle , NC 28001 — 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 13:53:27 2019 Page 1
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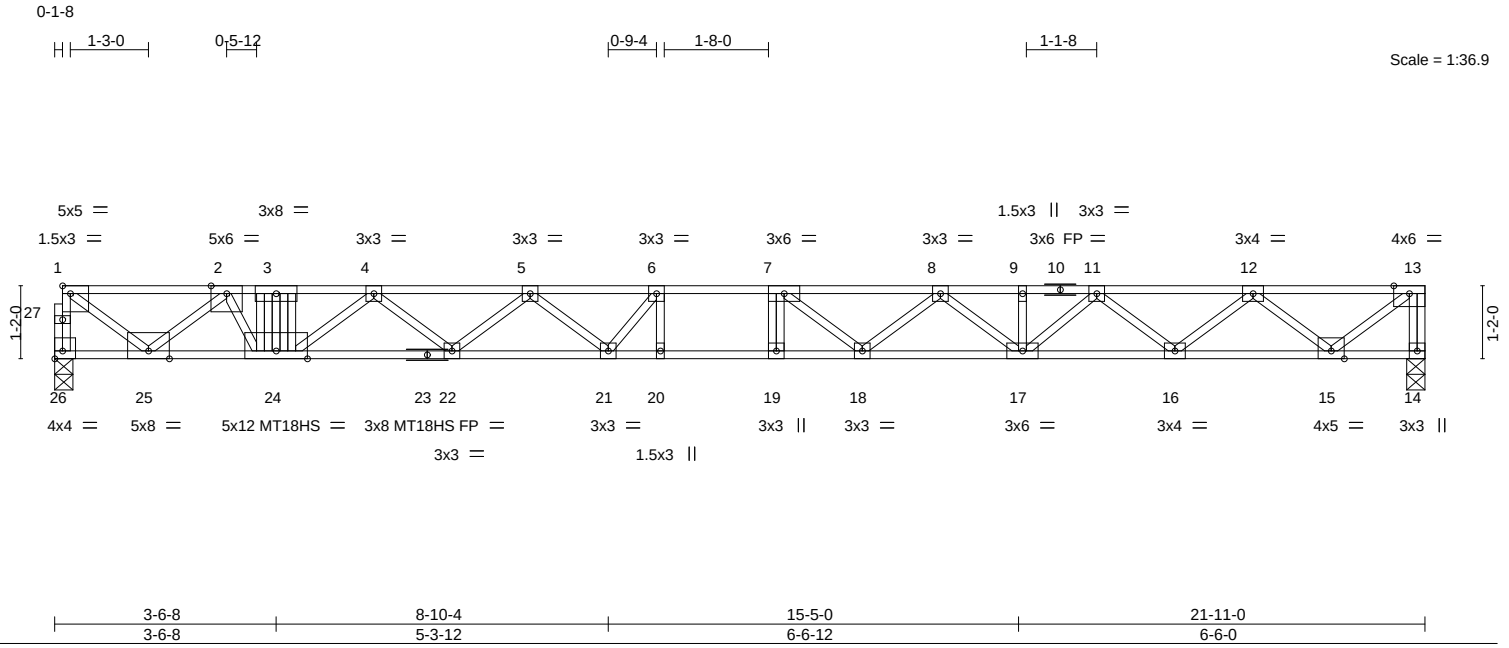

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [26:Edge,0-1-8]

LOADING (psf)		SPACING-	0-11-6	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.43	20	>603	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.59	20	>438	240	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.08	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 118 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
14-23: 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 26=1215/0-3-8, 14=687/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-26=-1211/0, 13-14=-683/0, 1-2=-1530/0, 2-3=-3697/0, 3-4=-3684/0, 4-5=-4187/0, 5-6=-4307/0, 6-7=-4216/0, 7-8=-3846/0, 8-9=-3156/0, 9-11=-3156/0, 11-12=-2159/0, 12-13=-835/0
BOT CHORD 24-25=0/2908, 22-24=0/4032, 21-22=0/4331, 20-21=0/4216, 19-20=0/4216, 18-19=0/4216, 17-18=0/3563, 16-17=0/2725, 15-16=0/1582
WEBS 13-15=0/1047, 1-25=0/1861, 12-15=-973/0, 2-25=-1794/0, 12-16=0/751, 2-24=0/1285, 11-16=-736/0, 4-24=-420/0, 11-17=0/574, 4-22=0/256, 8-17=-520/0, 8-18=0/455, 7-18=-644/0, 6-20=-293/119, 6-21=-261/397, 3-24=-773/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 775 lb down at 3-6-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
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: 14-26=-5, 1-13=-47
Concentrated Loads (lb)
Vert: 3=-775(F)

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes
Kimberly_FL	F03	Floor	1	1	E12977805
					Job Reference (optional)

Builders FirstSource, Albemarle , NC 28001 — 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 13:53:28 2019 Page 1
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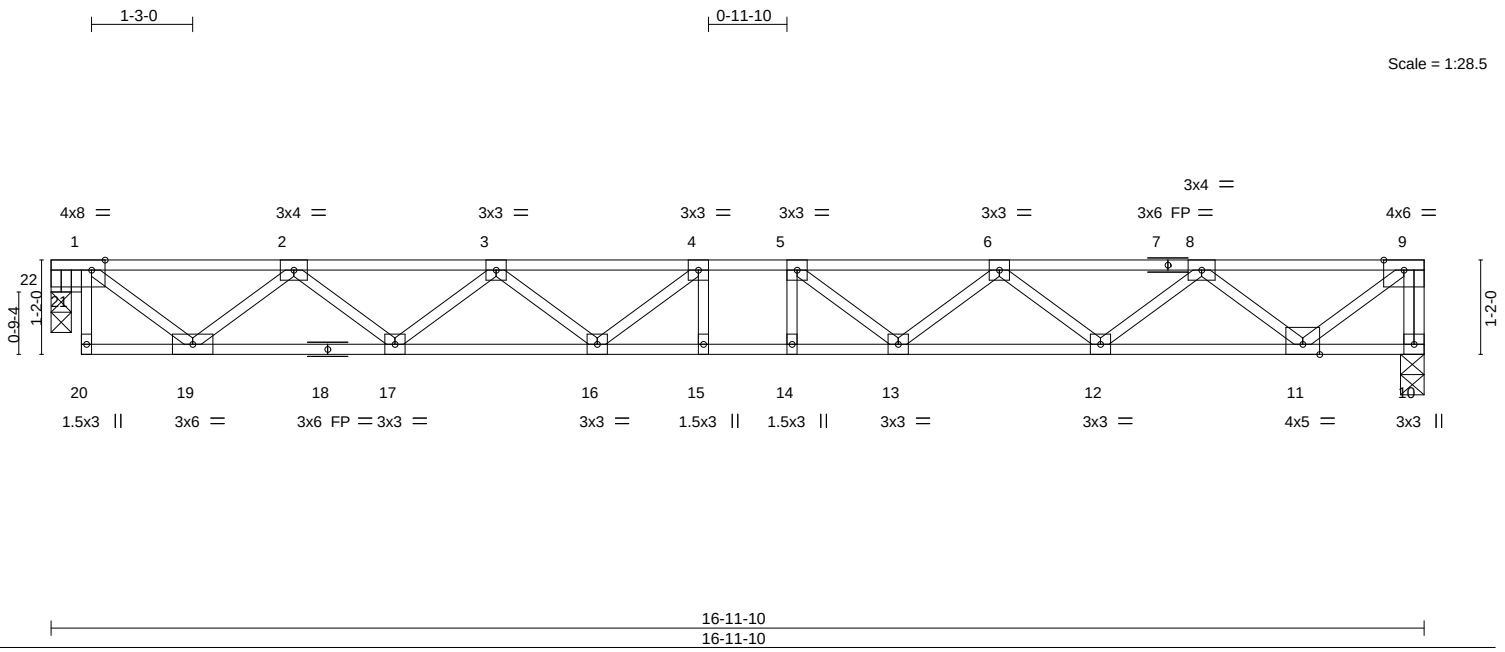

Plate Offsets (X,Y)-- [1:0-2-0,Edge], [22:0-0-12,0-1-10]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.19	15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.26	15	>783	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 86 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) *Except*
1-20: 2x4 SP No.2(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. (lb/size) 10=732/0-3-8, 22=711/0-3-0

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 9-10=-727/0, 1-2=-956/0, 2-3=-2137/0, 3-4=-2756/0, 4-5=-2928/0, 5-6=-2727/0, 6-8=-2071/0, 8-9=-846/0
BOT CHORD 17-19=0/1680, 16-17=0/2570, 15-16=0/2928, 14-15=0/2928, 13-14=0/2928, 12-13=0/2520, 11-12=0/1596
WEBS 9-11=0/1062, 1-19=0/996, 8-11=-977/0, 2-19=-942/0, 8-12=0/617, 2-17=0/595, 6-12=-584/0, 3-17=-563/0, 6-13=0/341, 3-16=0/324, 5-13=-402/26, 4-16=-379/51, 1-22=-984/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) The Fabrication Tolerance at joint 1 = 3%, joint 1 = 3%
3) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
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.

April 30,2019

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

Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes
Kimberly_FL	F03E	Floor Supported Gable	1	1	E12977806
					Job Reference (optional)

Builders FirstSource, Albemarle , NC 28001 — 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 13:53:30 2019 Page 1
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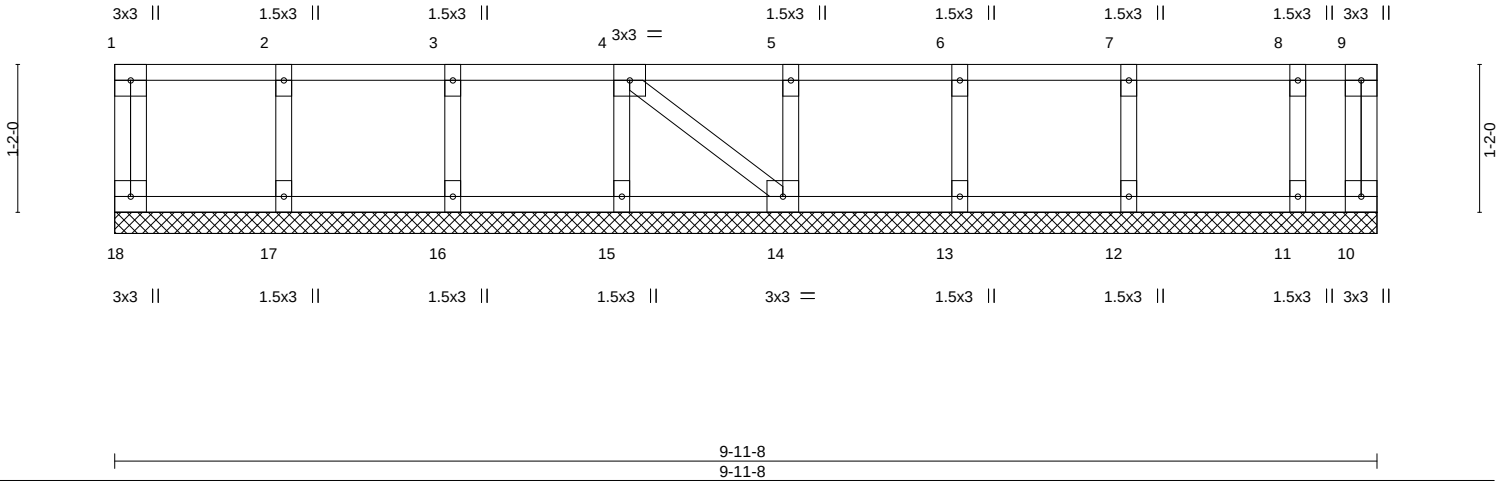

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 47 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)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 9-11-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 9-11-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

NOTES-
1) 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 30,2019

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes
Kimberly_FL	F04	Floor	5	1	E12977807
					Job Reference (optional)

Builders FirstSource, Albemarle , NC 28001 — 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 13:53:31 2019 Page 1
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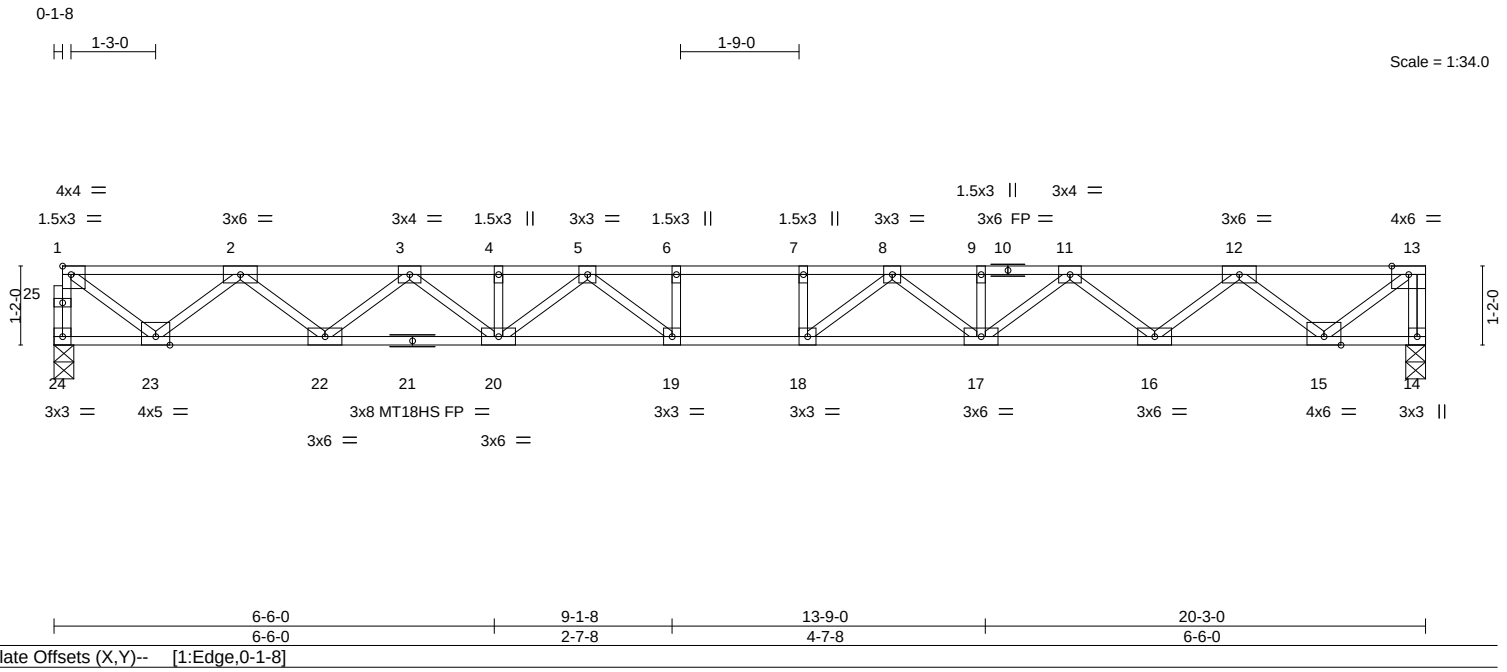

Plate Offsets (X,Y)-- [1:Edge,0-1-8]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.37	18-19	>648	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.51	18-19	>472	240	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.08	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 103 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) 24=874/0-3-8, 14=879/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-24=-870/0, 13-14=-873/0, 1-2=-1043/0, 2-3=-2609/0, 3-4=-3678/0, 4-5=-3678/0, 5-6=-4185/0, 6-7=-4185/0, 7-8=-4185/0, 8-9=-3679/0, 9-11=-3679/0, 11-12=-2609/0, 12-13=-1041/0
BOT CHORD 22-23=0/1967, 20-22=0/3226, 19-20=0/3995, 18-19=0/4185, 17-18=0/3995, 16-17=0/3225, 15-16=0/1969
WEBS 1-23=0/1265, 2-23=-1203/0, 2-22=0/835, 3-22=-803/0, 3-20=0/578, 5-20=-414/0, 5-19=-120/549, 13-15=0/1306, 12-15=-1208/0, 12-16=0/834, 11-16=-802/0, 11-17=0/579, 8-17=-414/0, 8-18=-120/549

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

April 30,2019

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes
Kimberly_FL	F05B	Floor	1	1	E12977808
					Job Reference (optional)

Builders FirstSource, Albemarle , NC 28001 — 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 13:53:32 2019 Page 1
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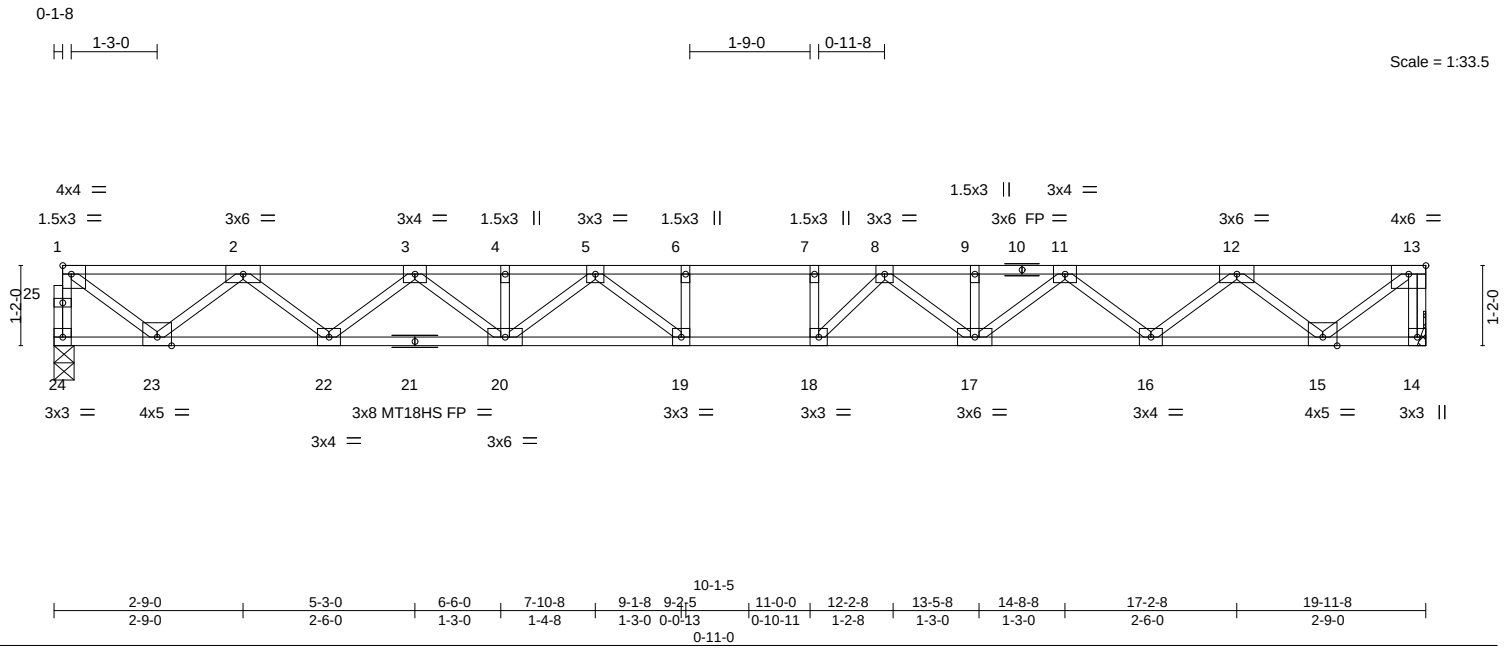

Plate Offsets (X,Y)-- [1:Edge,0-1-8]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.35	19	>673	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.48	19	>490	240	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.08	14	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 102 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) 24=862/0-3-8, 14=867/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-24=-857/0, 13-14=-861/0, 1-2=-1026/0, 2-3=-2561/0, 3-4=-3600/0, 4-5=-3600/0, 5-6=-4062/0, 6-7=-4062/0, 7-8=-4062/0, 8-9=-3599/0, 9-11=-3599/0, 11-12=-2562/0, 12-13=-1024/0
BOT CHORD 22-23=0/1935, 20-22=0/3163, 19-20=0/3900, 18-19=0/4062, 17-18=0/3899, 16-17=0/3162, 15-16=0/1937
WEBS 7-18=-281/31, 1-23=0/1244, 2-23=-1183/0, 2-22=0/815, 3-22=-784/0, 3-20=0/558, 5-20=-395/0, 5-19=-134/515, 13-15=0/1285, 12-15=-1188/0, 12-16=0/814, 11-16=-780/0, 11-17=0/558, 8-17=-421/0, 8-18=-122/531

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

April 30,2019

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Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes
Kimberly_FL	F07	Floor	3	1	E12977809
					Job Reference (optional)

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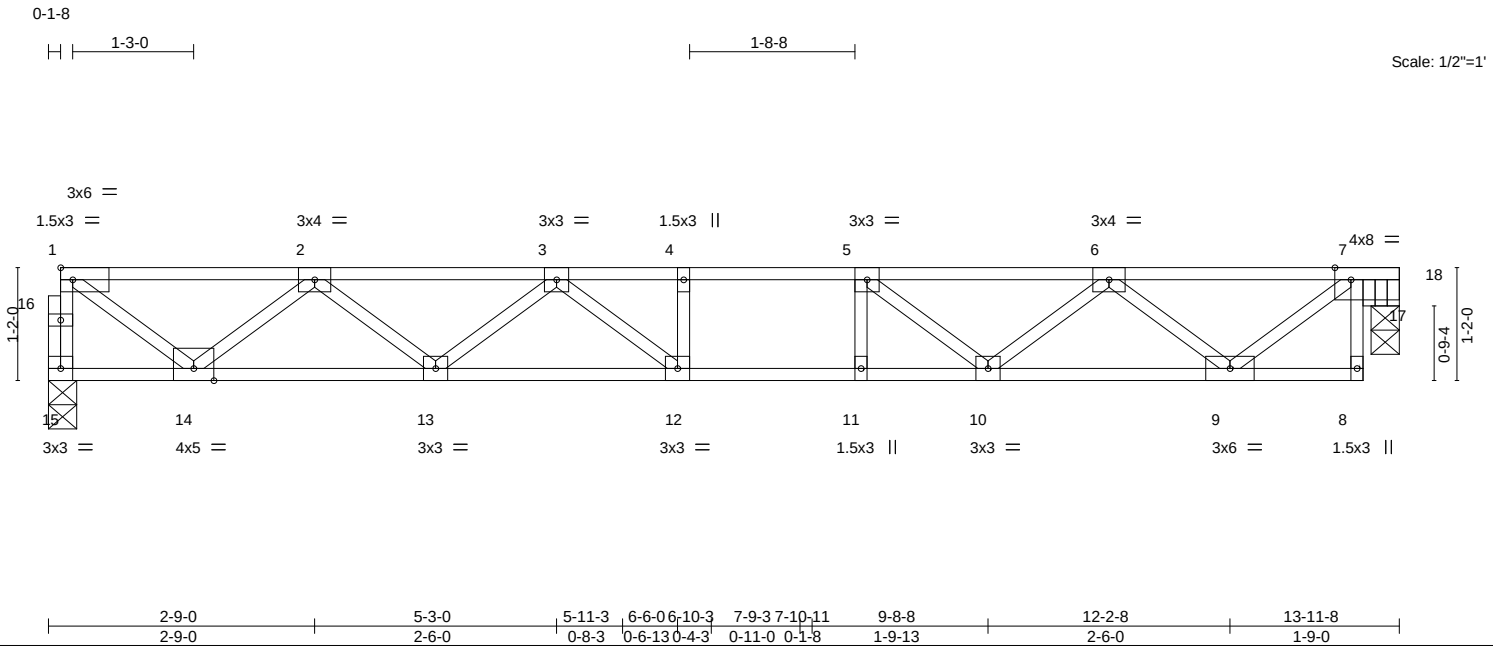

Plate Offsets (X,Y)-- [7:0-2-0,Edge], [18:0-0-12,0-1-10]

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	0.67	Vert(LL)	-0.13	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.18	12-13	>907	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.02	18	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.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except* 7-8: 2x4 SP No.2(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. (lb/size) 15=742/0-3-8, 18=725/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-735/0, 1-2=-840/0, 2-3=-1966/0, 3-4=-2398/0, 4-5=-2398/0, 5-6=-2003/0, 6-7=-929/0
BOT CHORD 13-14=0/1579, 12-13=0/2308, 11-12=0/2398, 10-11=0/2398, 9-10=0/1629
WEBS 1-14=0/1016, 2-14=-962/0, 2-13=0/504, 3-13=-445/0, 3-12=-114/388, 7-9=0/977, 6-9=-911/0, 6-10=0/499, 5-10=-600/0, 7-18=-958/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) The Fabrication Tolerance at joint 7 = 7%, joint 7 = 7%
3) Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
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.

April 30,2019

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes
Kimberly_FL	F08	Floor	4	1	E12977810
					Job Reference (optional)

Builders FirstSource, Albemarle , NC 28001 — 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 13:53:33 2019 Page 1
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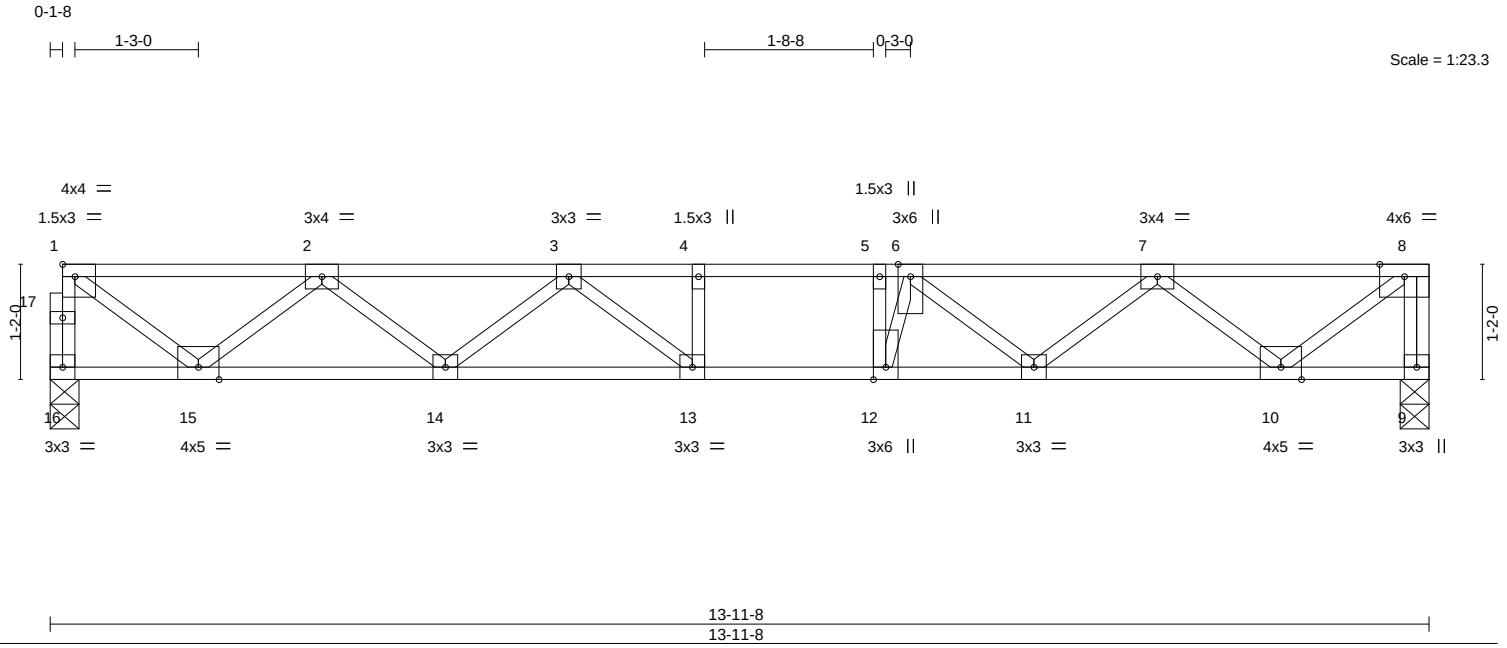

Plate Offsets (X,Y)-- [1:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.12	13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.17	13-14	>984	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 71 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) 16=748/0-3-8, 9=754/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-741/0, 8-9=-749/0, 1-2=-848/0, 2-3=-1988/0, 3-4=-2439/0, 4-5=-2439/0, 5-6=-2439/0, 6-7=-1979/0, 7-8=-850/0
BOT CHORD 14-15=0/1594, 13-14=0/2337, 12-13=0/2439, 11-12=0/2360, 10-11=0/1593
WEBS 1-15=0/1026, 2-15=-971/0, 2-14=0/513, 3-14=-455/0, 3-13=-92/390, 8-10=0/1066, 7-10=-968/0, 7-11=0/502, 6-11=-496/0, 5-12=-518/100, 6-12=-140/653

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.

April 30,2019

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

Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes
Kimberly_FL	F09E	GABLE	1	1	E12977811
					Job Reference (optional)

Builders FirstSource, Albemarle , NC 28001 — 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 13:53:34 2019 Page 1
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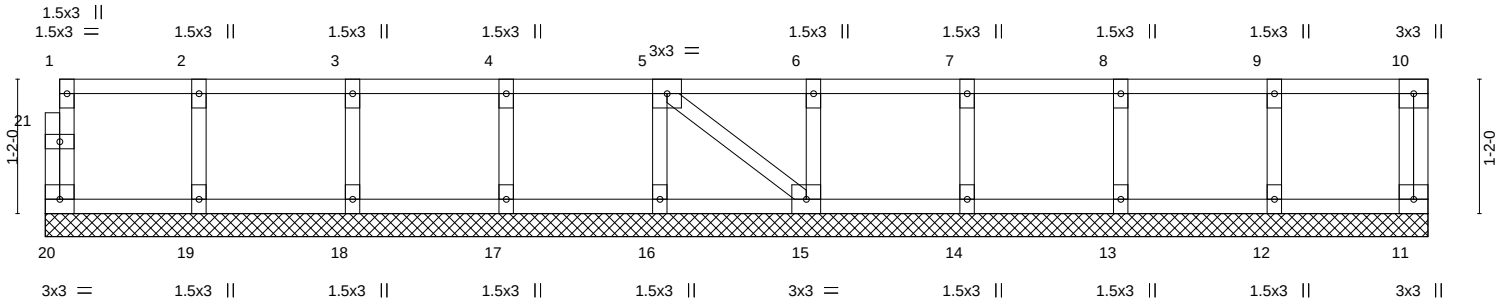

1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 54 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)
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 12-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

NOTES-

1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

April 30,2019

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes
Kimberly_FL	F10	Floor	5	1	E12977812
					Job Reference (optional)

Builders FirstSource, Albemarle , NC 28001 — 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 13:53:35 2019 Page 1
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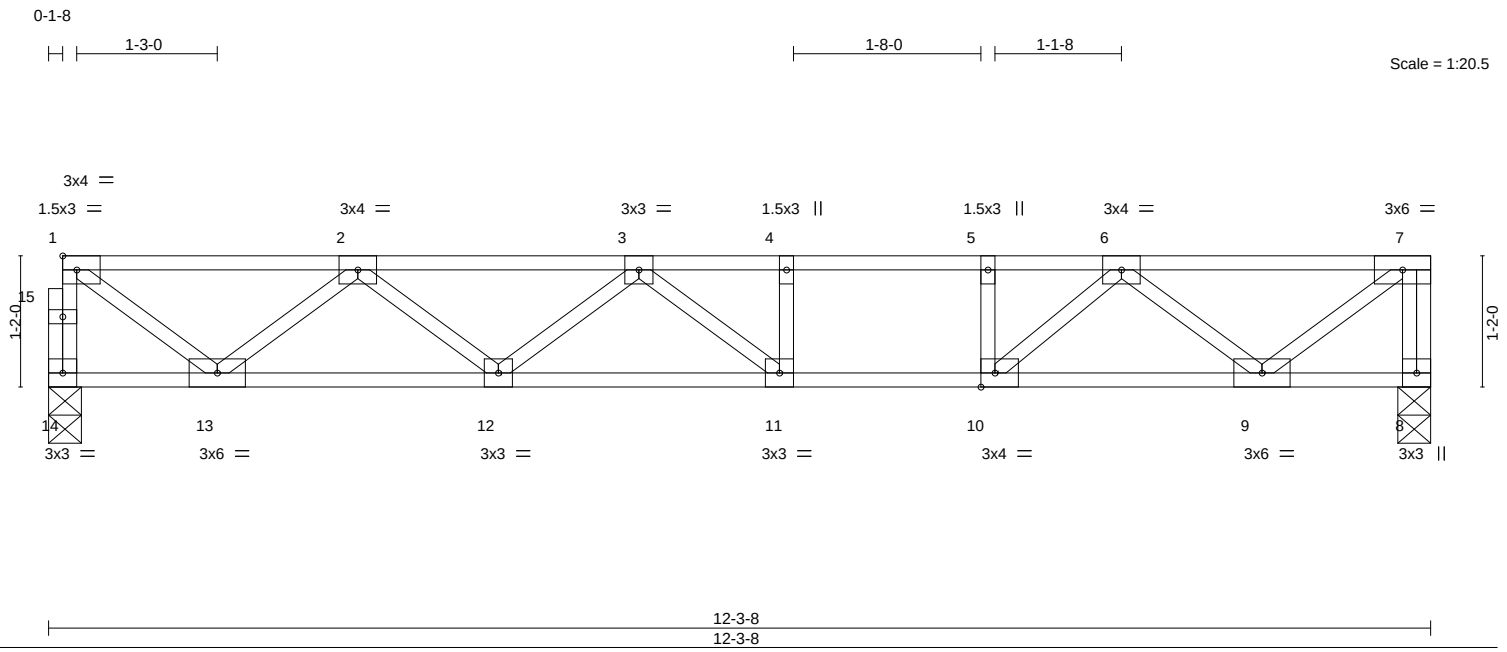

Plate Offsets (X,Y)-- [10:0-1-8,Edge]

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	0.55	Vert(LL)	-0.12	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.17	11-12	>858	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 63 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) 14=656/0-3-8, 8=662/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-648/0, 7-8=-644/0, 1-2=-724/0, 2-3=-1661/0, 3-4=-1793/0, 4-5=-1793/0, 5-6=-1793/0, 6-7=-700/0
BOT CHORD 12-13=0/1365, 11-12=0/1884, 10-11=0/1793, 9-10=0/1362
WEBS 1-13=0/874, 2-13=-835/0, 2-12=0/385, 3-12=-291/0, 7-9=0/878, 6-9=-861/0, 6-10=0/695, 5-10=-320/0

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.
3) CAUTION, Do not erect truss backwards.

April 30,2019

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lamco Custom Homes
Kimberly_FL	F11	Floor	2	1	E12977813
					Job Reference (optional)

Builders FirstSource, Albemarle , NC 28001 — 8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Apr 29 13:53:35 2019 Page 1
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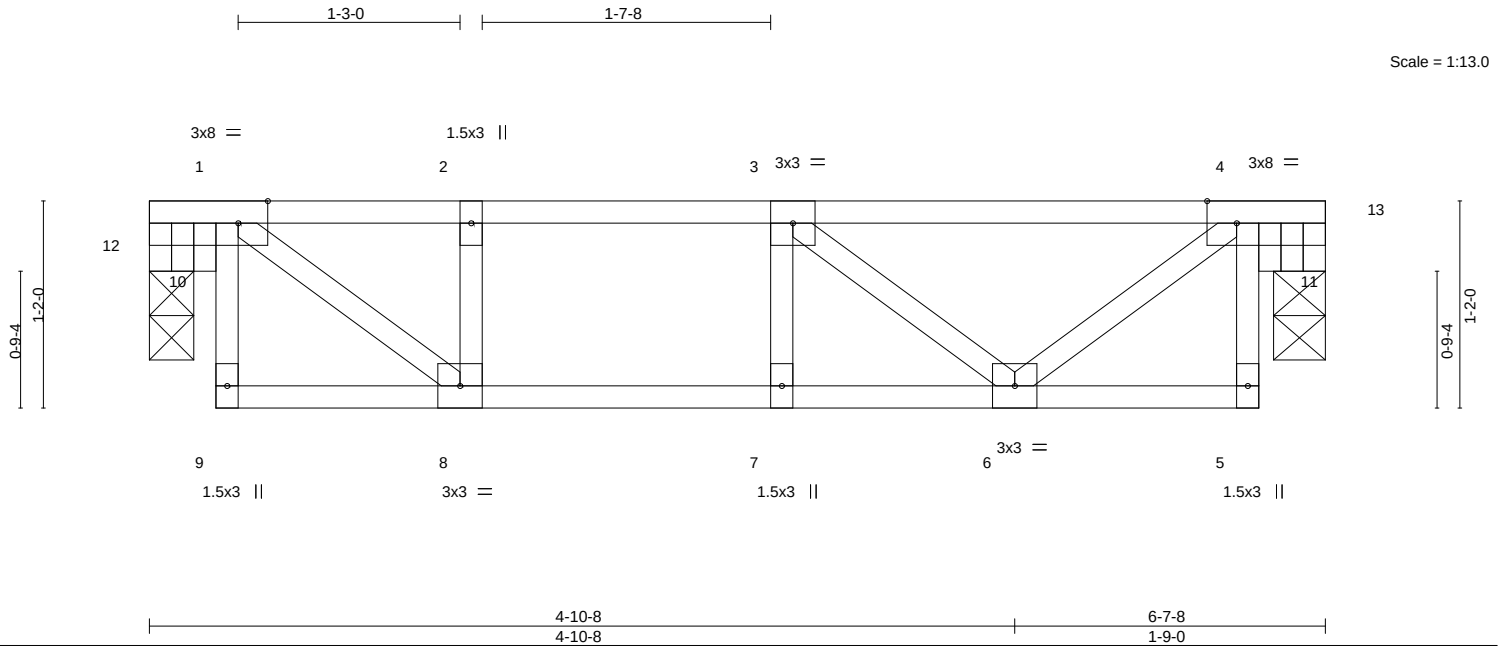


Plate Offsets (X,Y)-- [1:0-2-0,Edge], [4:0-2-0,Edge], [12:0-0-12,0-1-10], [13:0-0-12,0-1-10]

LOADING (psf)		SPACING-	1-7-3	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	7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.25	Vert(CT)	-0.03	7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-P							Weight: 33 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)
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. (lb/size) 12=251/0-3-0, 13=255/0-3-8

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

TOP CHORD	1-2=-384/0, 2-3=-384/0, 3-4=-268/0
BOT CHORD	7-8=0/384, 6-7=0/384
WEBS	1-8=0/429, 1-12=-305/0, 4-13=-402/0

NOTES-

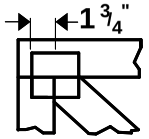
1) Unbalanced floor live loads have been considered for this design.
2) Bearing at joint(s) 12, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened 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.

April 30,2019

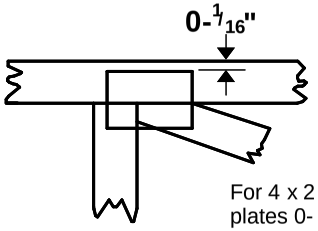
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

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.

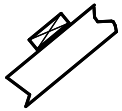
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

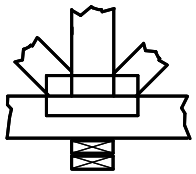
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

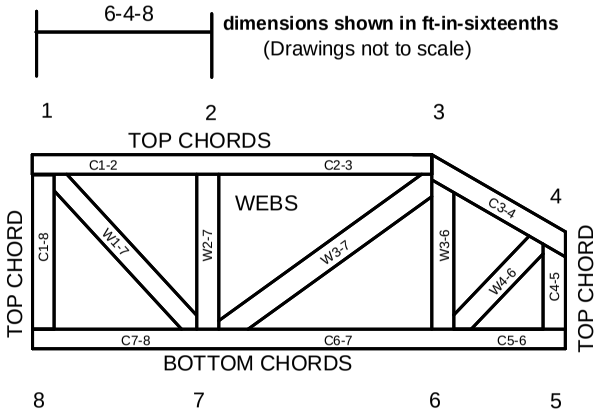


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: 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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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.