ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: P18-09006
2018-039 JOB#

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Longleaf Truss Company.

Pages or sheets covered by this seal: E12199997 thru E12200008

My license renewal date for the state of North Carolina is December 31, 2018.

North Carolina COA: C-0844

September 13,2018

Strzyzewski, Marvin

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	2018-039 JOB#
P18-09006	F01	Floor Supported Gable	1	1	E12199997
					Job Reference (optional)

Longleaf Truss Company, West End, N.C. 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Sep 13 11:12:55 2018 Page 1
ID:?G7aRwQBvAQgMa_vfckgcbye4Ex-JE5HzJBDaK1Ca8VCLLTQaBQzdu0poES8tr8Rvwye3Ls

0-1-8 0-1-8

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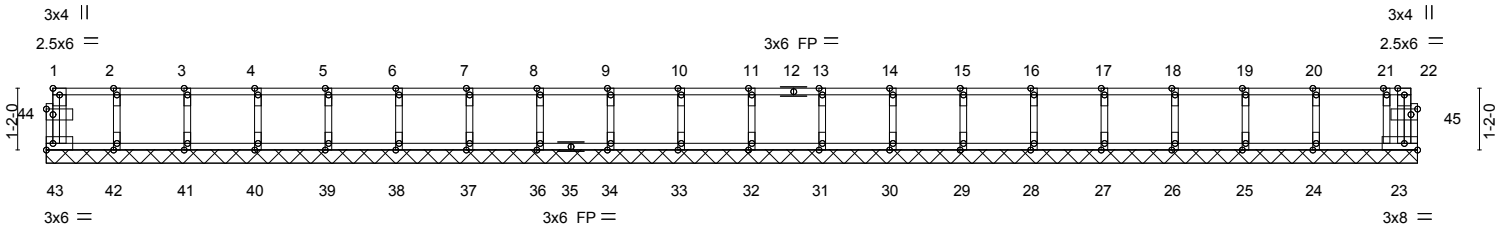


25-11-0
25-11-0

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [44:0-1-8,0-1-4], [45:0-1-8,0-1-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.00	23	n/a	n/a		
BCDL	5.0	Code	IRC2009/TPI2007	Matrix-R							Weight: 110 lb	FT = 20%F, 11%E

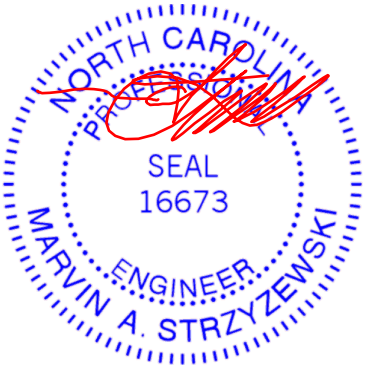
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 25-11-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 43, 23, 42, 41, 40, 39, 38, 37, 36, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24

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

NOTES-
1) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
2) All plates are 1.5x4 MT20 unless otherwise indicated.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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Job	Truss	Truss Type	Qty	Ply	2018-039 JOB#
P18-09006	F02	Floor Supported Gable	1	1	E12199998
					Job Reference (optional)

Longleaf Truss Company, West End, N.C. 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Sep 13 11:12:56 2018 Page 1
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0-1-8 0-1-8

Scale: 1/2"=1'

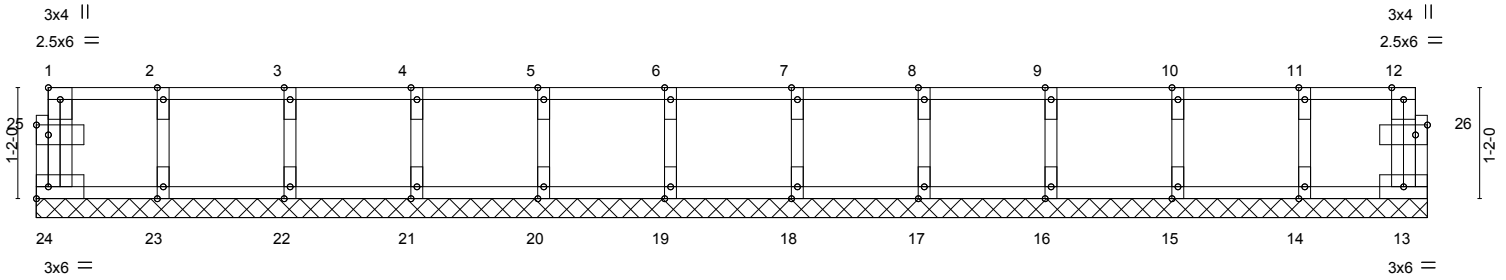


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [25:0-1-8,0-1-4], [26:0-1-8,0-1-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IRC2009/TPI2007	Matrix-R							Weight: 64 lb	FT = 20%F, 11%E

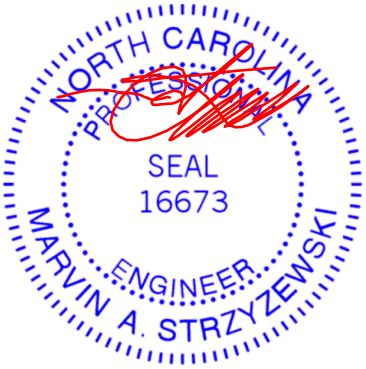
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 14-7-8.
(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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
2) All plates are 1.5x4 MT20 unless otherwise indicated.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	2018-039 JOB#
P18-09006	F03	Floor	1	1	E12199999
					Job Reference (optional)

Longleaf Truss Company, West End, N.C. 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Sep 13 11:12:59 2018 Page 1
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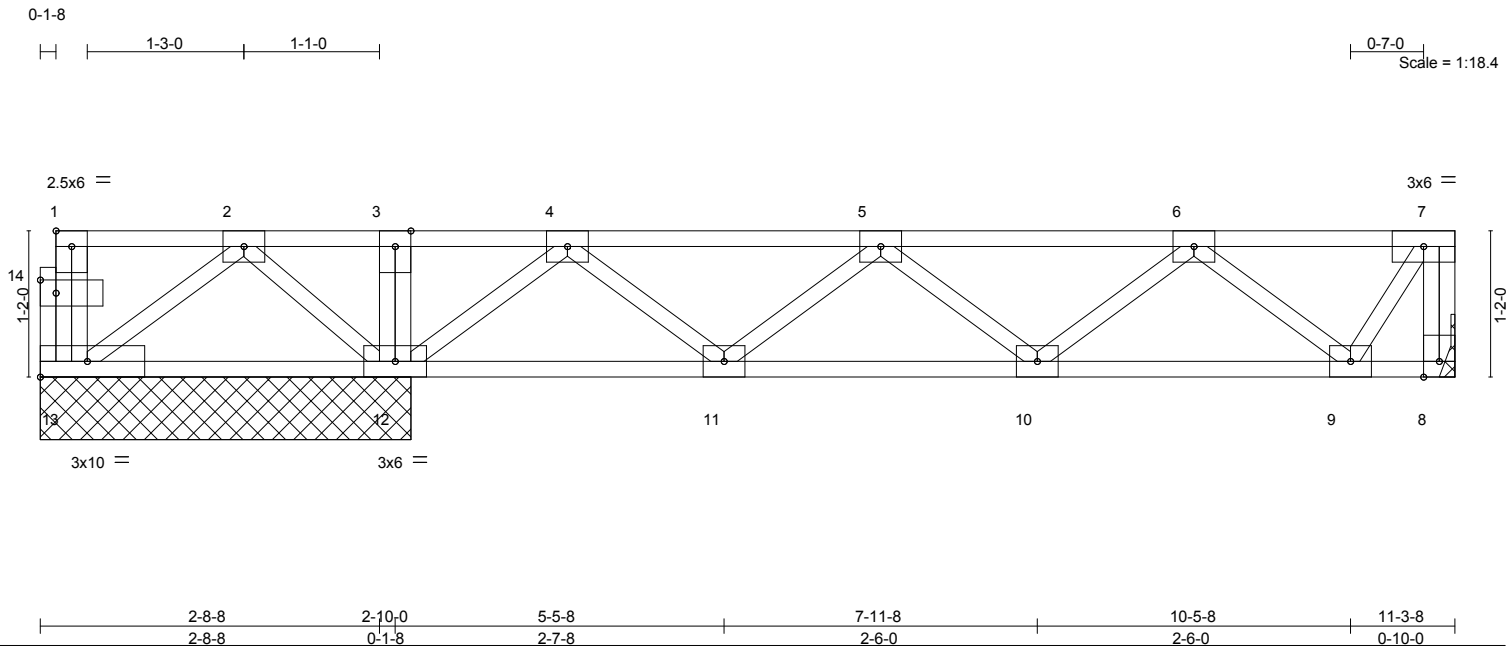

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [14:0-1-8,0-1-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	-0.01	10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.14	Vert(TL)	-0.02	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2009/TPI2007	Matrix-S							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 Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 12-13.

REACTIONS. (lb/size) 8=391/Mechanical, 12=884/2-11-8, 13=-73/2-11-8
Max Uplift 13=-168(LC 4)
Max Grav 8=392(LC 4), 12=884(LC 1), 13=75(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-393/0, 2-3=0/517, 3-4=0/517, 4-5=-401/0, 5-6=-642/0
BOT CHORD 12-13=-259/17, 10-11=0/677, 9-10=0/576
WEBS 2-13=-17/321, 2-12=-435/0, 4-12=-760/0, 4-11=0/396, 5-11=-362/0, 6-9=-467/0, 7-9=0/386

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 13.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

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Job	Truss	Truss Type	Qty	Ply	2018-039 JOB#
P18-09006	F04	Floor	6	1	E12200000
					Job Reference (optional)

Longleaf Truss Company, West End, N.C. 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Sep 13 11:13:02 2018 Page 1
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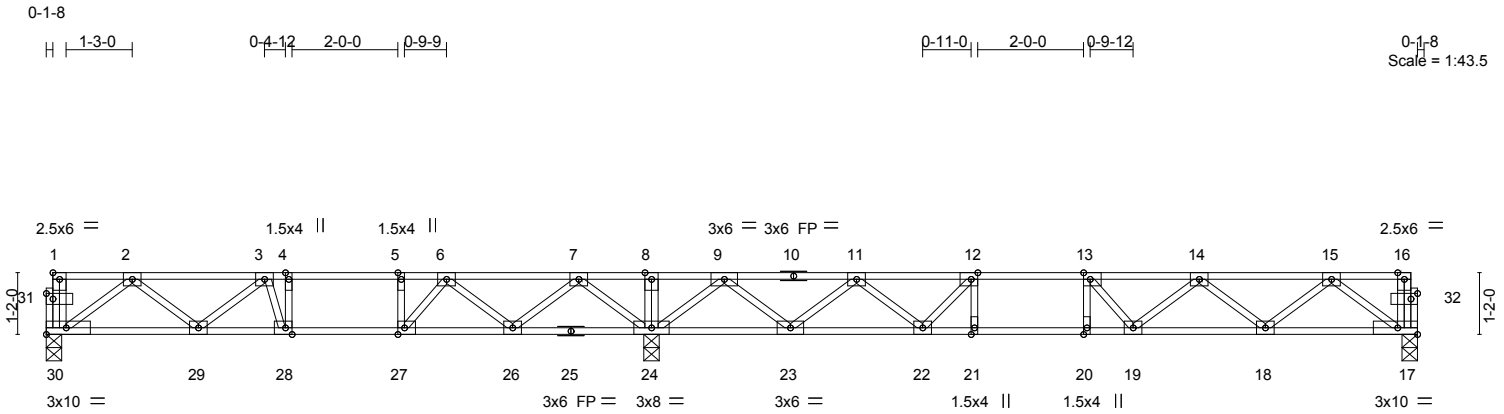


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [12:0-1-8,Edge], [13:0-1-8,Edge], [27:0-1-8,Edge], [28:0-1-8,Edge], [31:0-1-8,0-1-4], [32:0-1-8,0-1-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.12	19-20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(TL)	-0.19	19-20	>895	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(TL)	0.04	17	n/a	n/a		
BCDL	5.0	Code	IRC2009/TPI2007	Matrix-S							Weight: 132 lb	FT = 20%F, 11%E

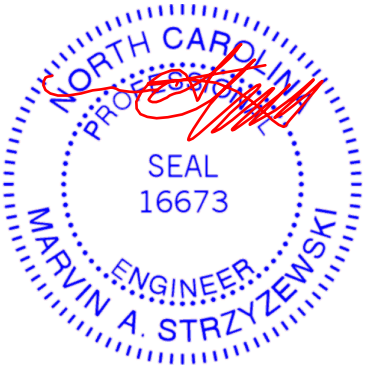
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 17=673/0-3-8, 24=1647/0-3-8, 30=477/0-3-8
Max Grav 17=699(LC 4), 24=1647(LC 1), 30=542(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1005/0, 3-4=-1262/76, 4-5=-1261/89, 5-6=-1261/89, 6-7=-568/530, 7-8=0/1484, 8-9=0/1484, 9-11=-686/185, 11-12=-1759/0, 12-13=-2112/0, 13-14=-2063/0, 14-15=-1408/0
BOT CHORD 29-30=0/681, 28-29=0/1279, 27-28=-89/1261, 26-27=-292/1046, 24-26=-762/84, 23-24=-461/0, 22-23=0/1356, 21-22=0/2112, 20-21=0/2112, 19-20=0/2112, 18-19=0/1893, 17-18=0/892
WEBS 4-28=-46/286, 5-27=-385/0, 12-21=0/252, 2-30=-838/0, 2-29=0/421, 3-29=-355/80, 3-28=-407/25, 7-24=-1135/0, 7-26=0/721, 6-26=-741/0, 6-27=0/657, 9-24=-1376/0, 9-23=0/958, 11-23=-916/0, 11-22=0/580, 12-22=-674/0, 15-17=-1099/0, 15-18=0/671, 14-18=-631/0, 14-19=0/259

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.



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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	2018-039 JOB#
P18-09006	F05	Floor	4	1	E12200001
					Job Reference (optional)

Longleaf Truss Company, West End, N.C. 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Sep 13 11:13:03 2018 Page 1
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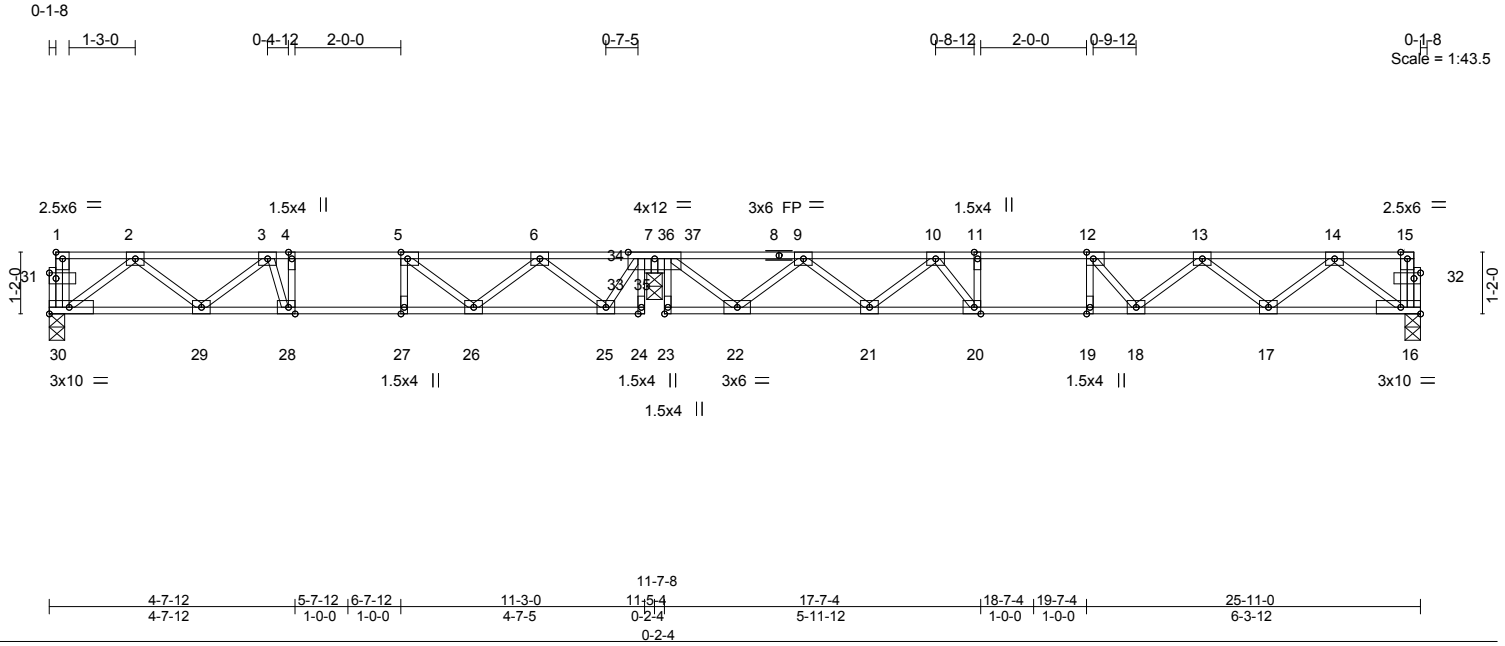


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [12:0-1-8,Edge], [20:0-1-8,Edge], [23:Edge,0-0-12], [28:0-1-8,Edge], [31:0-1-8,0-1-4], [32:0-1-8,0-1-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.13	19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(TL)	-0.19	19-20	>881	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(TL)	0.01	16	n/a	n/a		
BCDL	5.0	Code IRC2009/TPI2007		Matrix-S							Weight: 132 lb	FT = 20%F, 11%E

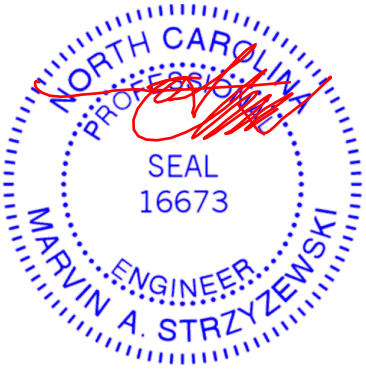
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except*
7-24: 2x4 SP No.1(flat)

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 24-25,22-23.

REACTIONS. (lb/size) 16=756/0-3-8, 33=1455/0-3-8, 30=582/0-3-8
Max Grav 16=762(LC 4), 33=1455(LC 1), 30=596(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1138/0, 3-4=-1548/0, 4-5=-1554/0, 5-6=-1255/0, 6-36=-330/61, 7-36=0/958, 7-37=0/958, 9-37=-806/0, 9-10=-1980/0, 10-11=-2534/0, 11-12=-2534/0, 12-13=-2379/0, 13-14=-1567/0
BOT CHORD 29-30=0/753, 28-29=0/1503, 27-28=0/1554, 26-27=0/1554, 25-26=0/936, 21-22=0/1552, 20-21=0/2389, 19-20=0/2534, 18-19=0/2534, 17-18=0/2120, 16-17=0/980
WEBS 4-28=-280/89, 11-20=-298/0, 2-30=-928/0, 2-29=0/500, 3-29=-474/0, 3-28=-152/378, 5-26=-491/0, 6-26=0/446, 6-25=-790/0, 25-36=0/626, 22-37=0/1038, 9-22=-972/0, 9-21=0/570, 10-21=-549/0, 10-20=-29/520, 14-16=-1208/0, 14-17=0/764, 13-17=-719/0, 13-18=0/418, 12-18=-416/29, 7-33=0/261

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Bearing at joint(s) 33 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.



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Job	Truss	Truss Type	Qty	Ply	2018-039 JOB#
P18-09006	F06	Floor	6	1	E12200002
					Job Reference (optional)

Longleaf Truss Company, West End, N.C. 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Sep 13 11:13:06 2018 Page 1
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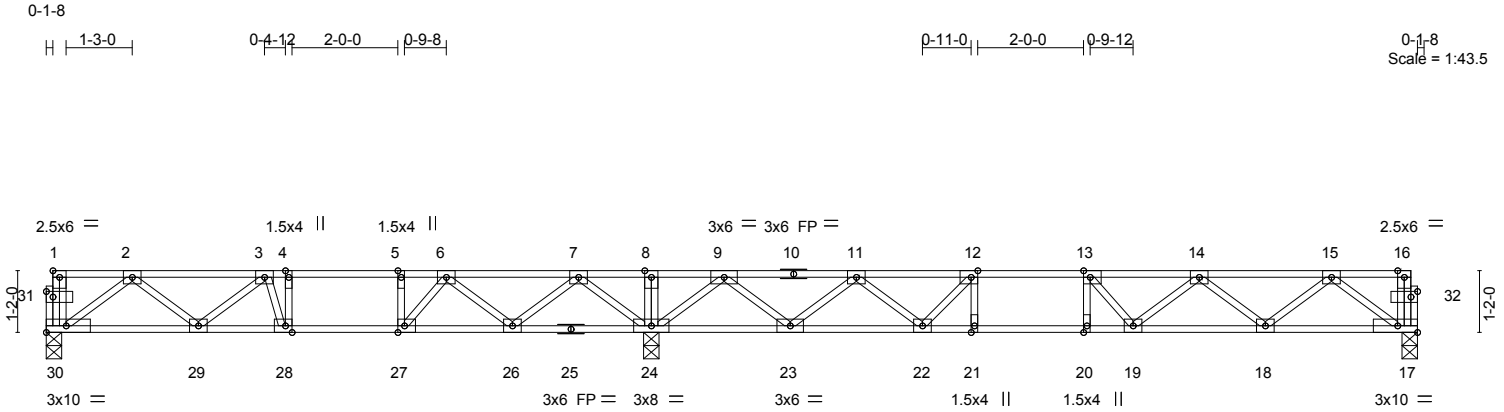


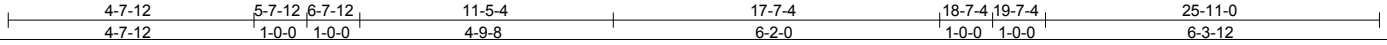


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [12:0-1-8,Edge], [13:0-1-8,Edge], [27:0-1-8,Edge], [28:0-1-8,Edge], [31:0-1-8,0-1-4], [32:0-1-8,0-1-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.12	19-20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(TL)	-0.19	19-20	>895	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(TL)	0.04	17	n/a	n/a		
BCDL	5.0	Code	IRC2009/TPI2007	Matrix-S							Weight: 132 lb	FT = 20%F, 11%E

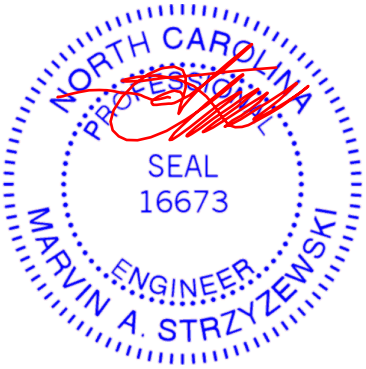
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (lb/size) 17=673/0-3-8, 24=1647/0-3-8, 30=477/0-3-8
Max Grav 17=700(LC 4), 24=1647(LC 1), 30=542(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1004/0, 3-4=-1262/77, 4-5=-1260/90, 5-6=-1260/90, 6-7=-568/531, 7-8=0/1484, 8-9=0/1484, 9-11=-685/185, 11-12=-1759/0, 12-13=-2114/0, 13-14=-2064/0, 14-15=-1408/0
BOT CHORD 29-30=0/681, 28-29=0/1278, 27-28=-90/1260, 26-27=-292/1045, 24-26=-763/85, 23-24=-461/0, 22-23=0/1356, 21-22=0/2114, 20-21=0/2114, 19-20=0/2114, 18-19=0/1894, 17-18=0/892
WEBS 4-28=-45/287, 5-27=-386/0, 12-21=0/251, 2-30=-838/0, 2-29=0/421, 3-29=-355/80, 3-28=-408/24, 7-24=-1135/0, 7-26=0/721, 6-26=-742/0, 6-27=0/657, 9-24=-1376/0, 9-23=0/959, 11-23=-916/0, 11-22=0/579, 12-22=-674/0, 15-17=-1099/0, 15-18=0/672, 14-18=-632/0, 14-19=0/259

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	2018-039 JOB#
P18-09006	F07	Floor	2	1	E12200003

Job Reference (optional)

Longleaf Truss Company, West End, N.C. Run: 8.110 s Feb 9 2017 Print: 8.130 s Oct 7 2017 MiTek Industries, Inc. Thu Sep 13 13:26:38 2018 Page 1

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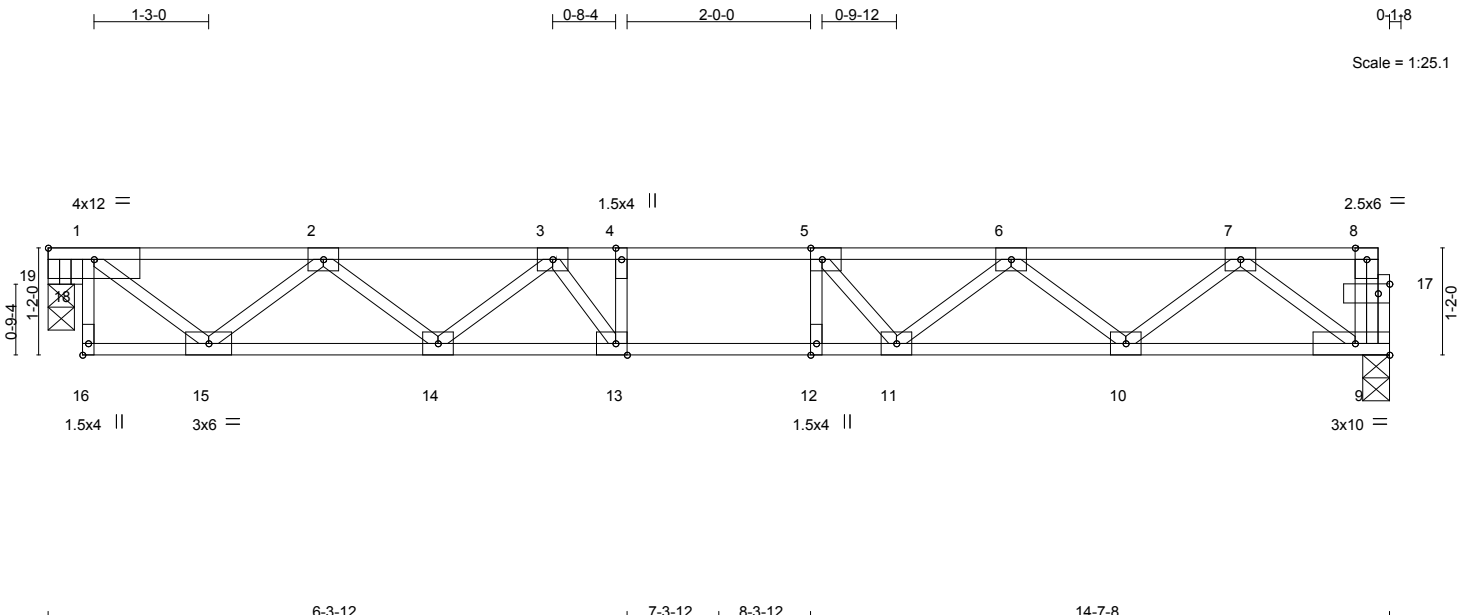


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [13:0-1-8,Edge], [16:Edge,0-0-12], [17:0-1-8,0-1-4], [19:0-0-12,0-1-10]

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	0.53	Vert(LL)	-0.13	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(TL)	-0.20	12-13	>853	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(TL)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2009/TPI2007	Matrix-S							Weight: 74 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* 1-16: 2x4 SP No.1(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Sheathed 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=775/0-3-8, 19=758/0-3-7

FORCES. (lb) - Maximum Compression/Maximum Tension

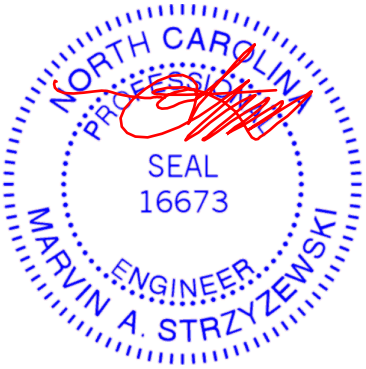
TOP CHORD	16-18=0/8, 1-18=0/8, 9-17=-43/0, 8-17=-42/0, 1-2=-982/0, 2-3=-2128/0, 3-4=-2624/0, 4-5=-2624/0, 5-6=-2447/0, 6-7=-1601/0, 7-8=-3/0
BOT CHORD	15-16=0/174, 14-15=0/1726, 13-14=0/2507, 12-13=0/2624, 11-12=0/2624, 10-11=0/2168, 9-10=0/999
WEBS	1-15=0/1032, 4-13=-291/4, 5-12=-122/143, 2-15=-968/0, 2-14=0/524, 3-14=-493/0, 3-13=-81/489, 7-9=-1231/0, 7-10=0/783, 6-10=-738/0, 6-11=0/454, 5-11=-466/0, 1-19=-1006/0

NOTES-

1) Unbalanced floor live loads have been considered for this design.
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S)

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 9-16=-10, 1-8=-100
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 9-16=-10, 1-8=-100
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 9-16=-10, 1-5=-100, 5-8=-20
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 9-16=-10, 1-4=-20, 4-8=-100



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Continued on page 2

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LOAD CASE(S)

5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 9-16=-10, 1-5=-100, 5-8=-20

6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 9-16=-10, 1-4=-20, 4-8=-100

Job	Truss	Truss Type	Qty	Ply	2018-039 JOB#
P18-09006	F08	Floor	2	1	E12200004
					Job Reference (optional)

Longleaf Truss Company, West End, N.C. 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Sep 13 11:13:09 2018 Page 1
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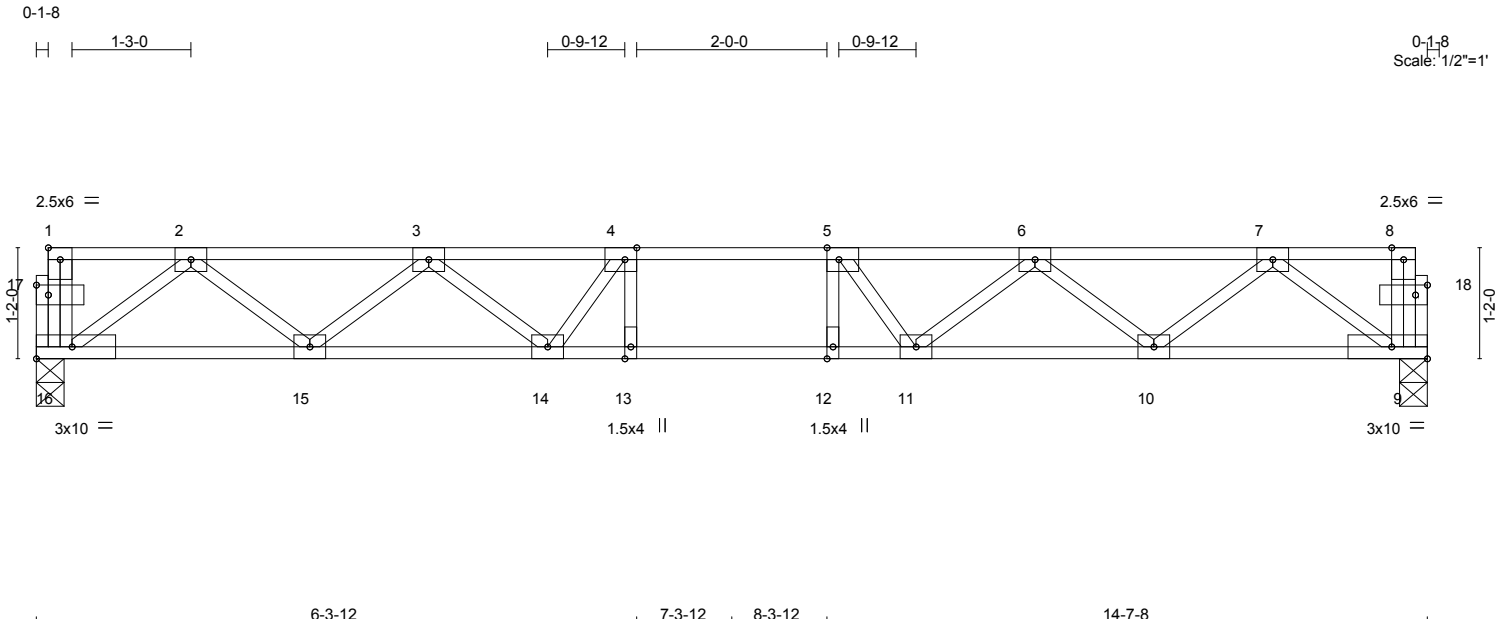


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge], [17:0-1-8,0-1-4], [18:0-1-8,0-1-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.13	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(TL)	-0.20	12-13	>862	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(TL)	0.04	9	n/a	n/a		
BCDL	5.0	Code IRC2009/TPI2007		Matrix-S							Weight: 76 lb	FT = 20%F, 11%E

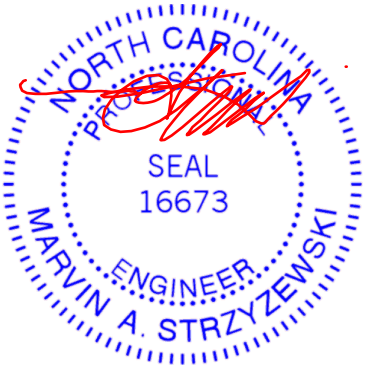
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Sheathed 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=777/0-3-8, 9=777/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1606/0, 3-4=-2468/0, 4-5=-2637/0, 5-6=-2468/0, 6-7=-1606/0
BOT CHORD 15-16=0/1003, 14-15=0/2173, 13-14=0/2636, 12-13=0/2637, 11-12=0/2636, 10-11=0/2173, 9-10=0/1003
WEBS 2-16=-1236/0, 2-15=0/785, 3-15=-739/0, 3-14=0/468, 4-14=-475/0, 7-9=-1236/0, 7-10=0/785, 6-10=-739/0, 6-11=0/468, 5-11=-475/0

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



September 13,2018

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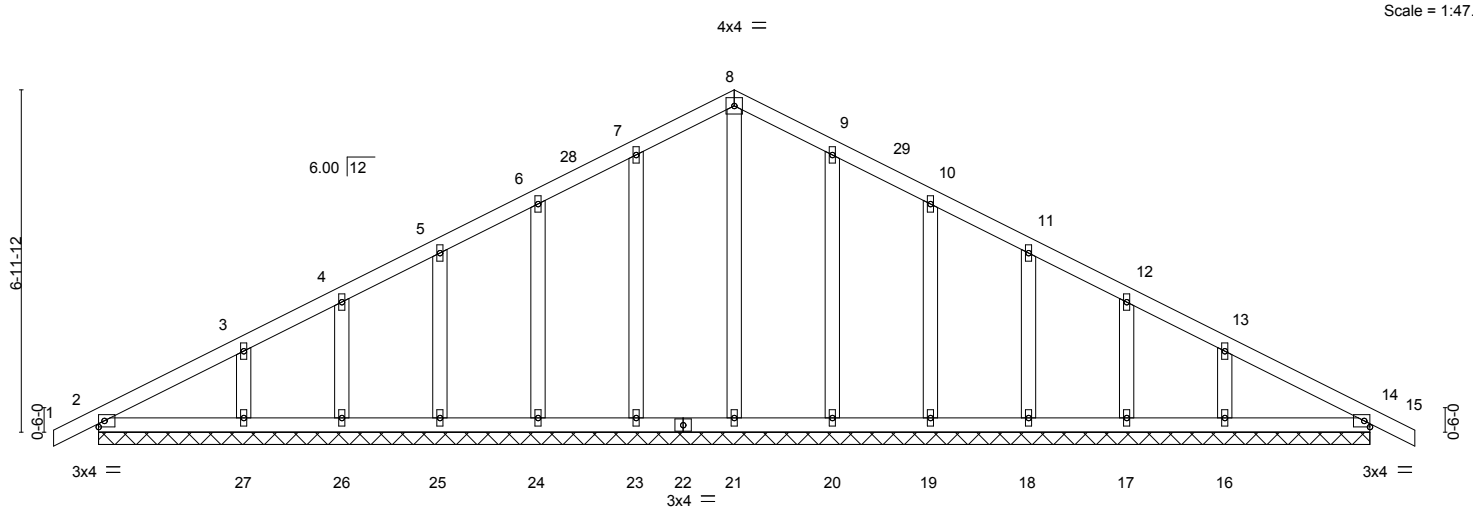
Job	Truss	Truss Type	Qty	Ply	2018-039 JOB#
P18-09006	T01GE	Common Supported Gable	1	1	E12200005
					Job Reference (optional)

Longleaf Truss Company, West End, N.C. 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Sep 13 11:13:11 2018 Page 1
ID:?G7aRwQBvAQgMa_vfckgcbye4Ex-rJ2KKnNFoF2xVbkHHjlAEZ4jiLTEYSUVZL0HT_ye3Lc

-0-11-0 12-11-8 25-11-0 26-10-0
0-11-0 12-11-8 12-11-8 0-11-0

Scale = 1:47.0



25-11-0
25-11-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	14	n/r	120	MT20	244/190
Snow (Pf/Pg)	12.7/15.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	0.00	15	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.00	14	n/a	n/a		
BCLL	0.0 *	Code	IRC2009/TPI2007	Matrix-S							Weight: 146 lb	FT = 20%
BCDL	10.0											

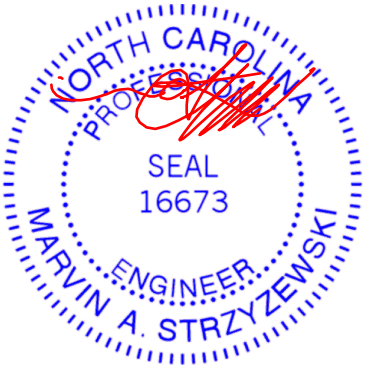
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 25-11-0.
(lb) - Max Horz 2=174(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14
Max Grav All reactions 250 lb or less at joint(s) 2, 21, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 115mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=26ft; eave=2ft; Cat. III; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=12.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category III; Exp B; Partially Exp.; Ct=1.1
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 12.7 psf on overhangs non-concurrent with other live loads.
7) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
8) All plates are 1.5x4 MT20 unless otherwise indicated.
9) Gable requires continuous bottom chord bearing.
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 23, 24, 25, 26, 27, 20, 19, 18, 17, 16, 14.
14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 14.



September 13,2018

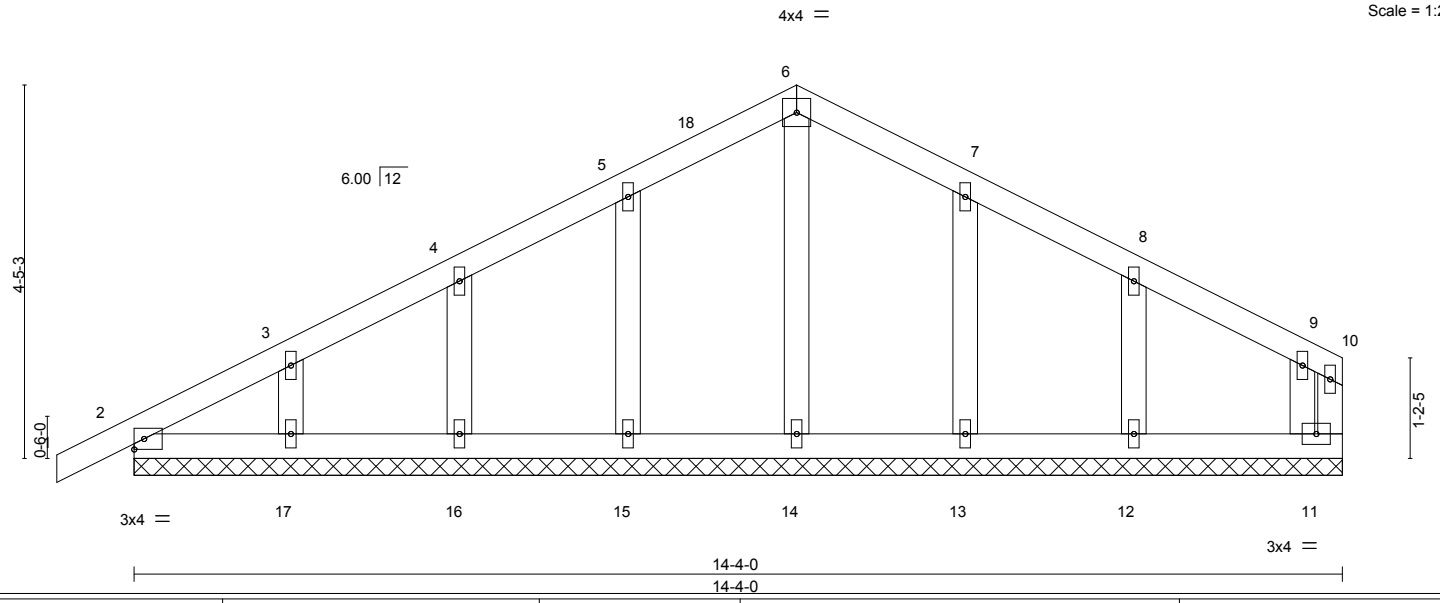
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	2018-039 JOB#
P18-09006	T02GE	Common Supported Gable	1	1	E12200006
					Job Reference (optional)

Longleaf Truss Company, West End, N.C. 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Sep 13 11:13:12 2018 Page 1
ID:?G7aRwQBvAQgMa_vfckgcbye4Ex-JWciX7OtZZAo6lJUrQGPnndumlpkHwfen?lr?Rye3Lb

-0-11-0 7-10-5 14-4-0
0-11-0 7-10-5 6-5-11

Scale = 1:27.3



14-4-0
14-4-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
Snow (Pf/Pg)	12.7/15.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	-0.00	1	n/r	120		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	-0.00	11	n/a	n/a		
BCLL	0.0 *	Code	IRC2009/TPI2007	Matrix-S							Weight: 71 lb	FT = 20%
BCDL	10.0											

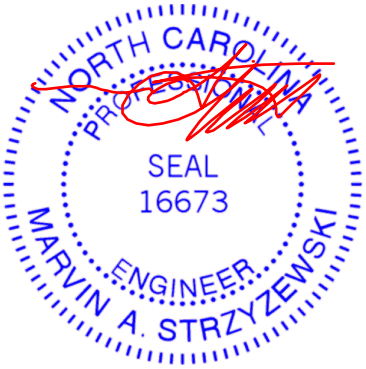
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 14-4-0.
(lb) - Max Horz 2=135(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 11, 2, 14, 15, 16, 17, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 11, 2, 14, 15, 16, 17, 13, 12

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 115mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. III; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=12.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category III; Exp B; Partially Exp.; Ct=1.1
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 12.7 psf on overhangs non-concurrent with other live loads.
7) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
8) All plates are 1.5x4 MT20 unless otherwise indicated.
9) Gable requires continuous bottom chord bearing.
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 2, 14, 15, 16, 17, 13, 12.
14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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

Job	Truss	Truss Type	Qty	Ply	2018-039 JOB#
P18-09006	T03	Roof Special Structural Gable	1	1	E12200007
					Job Reference (optional)

Longleaf Truss Company, West End, N.C. 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Sep 13 11:13:14 2018 Page 1
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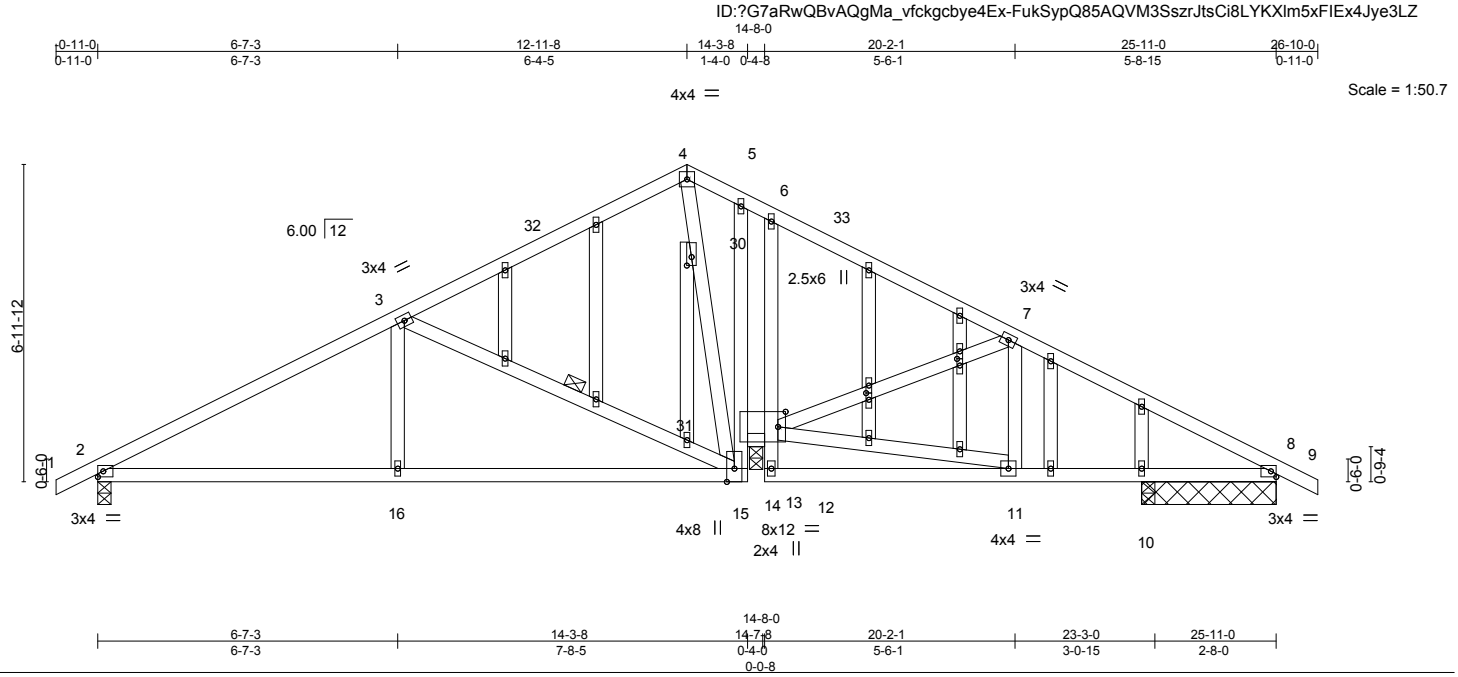


Plate Offsets (X,Y)-- [14:0-0-0,0-1-12], [14:0-2-0,0-4-0], [23:0-1-12,0-0-12], [26:0-1-12,0-0-12], [30:0-2-4,0-1-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.07	15-16	>999	240	MT20	244/190
Snow (Pf/Pg)	12.7/15.0	Lumber DOL	1.15	BC	0.71	Vert(TL)	-0.18	15-16	>915	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.29	Horz(TL)	-0.01	13	n/a	n/a		
BCLL	0.0 *	Code	IRC2009/TPI2007	Matrix-S								
BCDL	10.0										Weight: 179 lb	FT = 20%

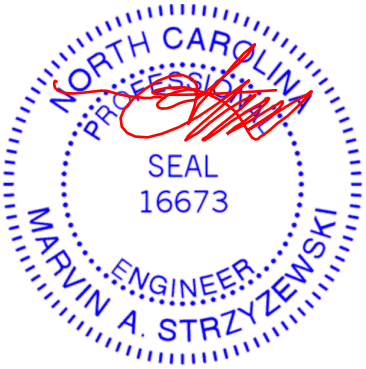
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1 *Except*
5-15,6-12: 2x4 SP No.3
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 13-14.
WEBS 1 Row at midpt 3-15

REACTIONS. All bearings 0-3-8 except (jt=length) 8=2-11-8.
(lb) - Max Horz 2=174(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 10 except 2=-196(LC 12), 14=-139(LC 12), 8=-156(LC 12), 13=-103(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 10, 10 except 2=579(LC 20), 14=846(LC 2), 8=376(LC 21), 13=379(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-731/206, 7-8=-449/155
BOT CHORD 2-16=-78/574, 15-16=-78/574, 14-15=-78/675, 6-13=-269/193, 10-11=-42/330, 8-10=-42/330
WEBS 3-16=0/331, 3-31=-688/246, 15-31=-704/251, 4-30=-332/41, 15-30=-291/43, 11-13=-53/281, 7-13=-455/203

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 115mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. III; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=12.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category III; Exp B; Partially Exp.; Ct=1.1
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 12.7 psf on overhangs non-concurrent with other live loads.
7) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
8) All plates are 1.5x4 MT20 unless otherwise indicated.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=196, 14=139, 8=156, 13=103.



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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	2018-039 JOB#
P18-09006	T04	Common	4	1	E12200008
					Job Reference (optional)

Longleaf Truss Company, West End, N.C. 8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Sep 13 11:13:15 2018 Page 1
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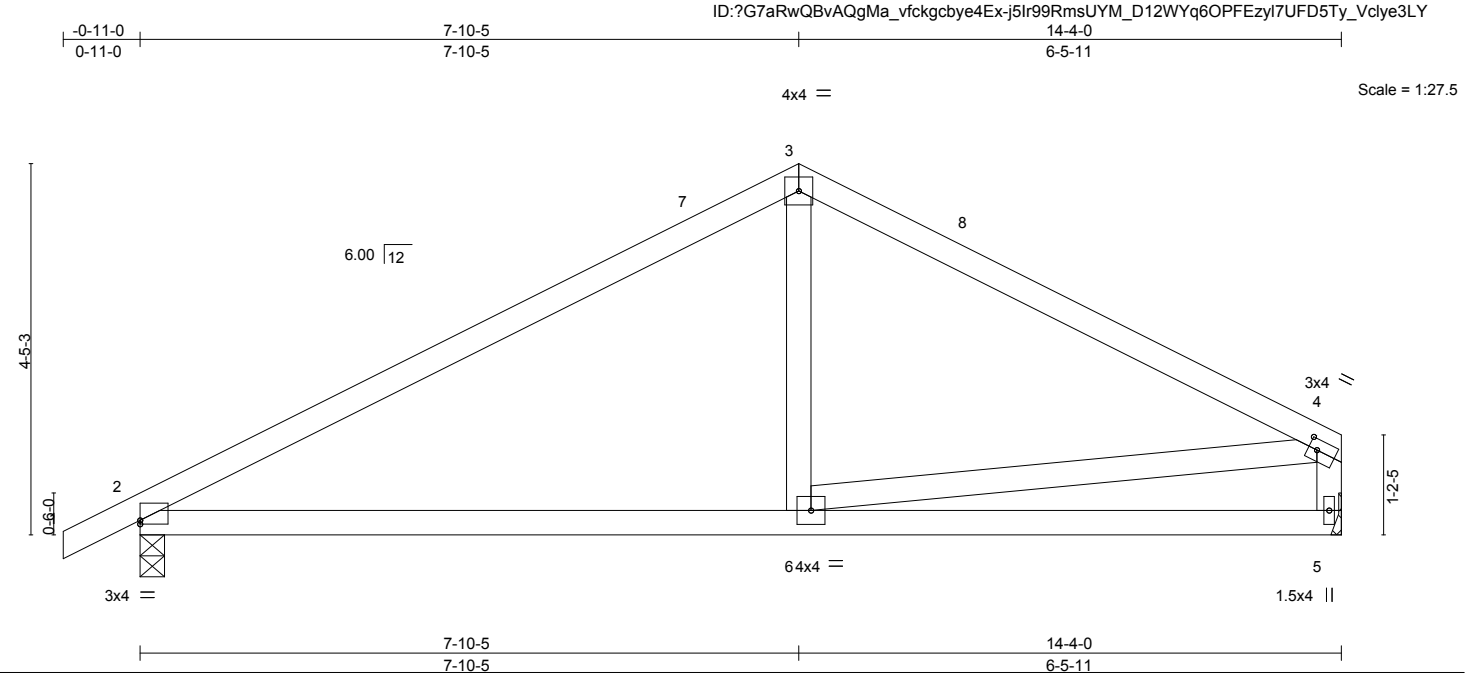


Plate Offsets (X,Y)-- [2:0-0-0,0-0-9], [4:0-1-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.08	2-6	>999	240	MT20	244/190
Snow (Pf/Pg)	12.7/15.0	Lumber DOL	1.15	BC	0.43	Vert(TL)	-0.25	2-6	>678	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(TL)	0.01	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2009/TPI2007	Matrix-S								
BCDL	10.0										Weight: 63 lb	FT = 20%

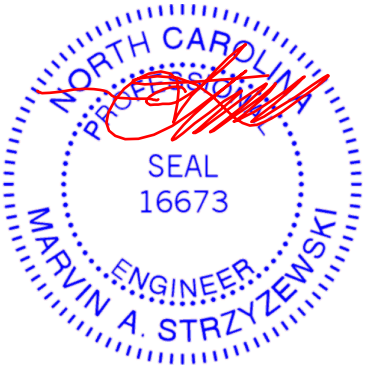
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 4-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=509/0-3-8, 5=457/Mechanical
Max Horz 2=135(LC 11)
Max Uplift 2=-194(LC 12), 5=-133(LC 12)
Max Grav 2=628(LC 2), 5=559(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-728/170, 3-4=-693/181, 4-5=-515/167
BOT CHORD 2-6=-49/548
WEBS 3-6=0/286, 4-6=-7/417

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 115mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. III; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-05; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Pf=12.7 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category III; Exp B; Partially Exp.; Ct=1.1
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 12.7 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=194, 5=133.

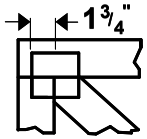


September 13,2018

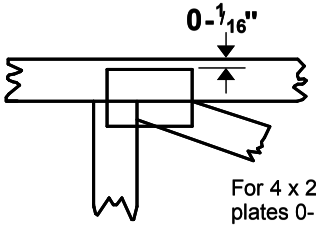
ENGINEERING BY TRENCO A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

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.

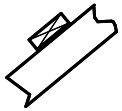
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

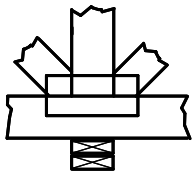
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

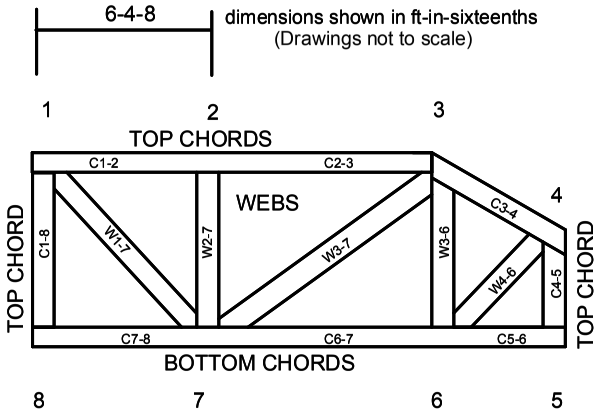


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.

MiTek

ENGINEERING BY TRENCO
A MiTek Affiliate

MiTek Engineering Reference Sheet: MII-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.