ENGINEERING BY TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

RE: P21-08026F - LOT 4 RASSER PITMAN RD

Site Information:

Project Customer: Project Name:
Lot/Block: Subdivision:
Model:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.3
Wind Code: N/A Wind Speed: N/A mph Design Method: N/A
Roof Load: N/A psf Floor Load: 55.0 psf

Mean Roof Height (feet): N/A Exposure Category: N/A

No.	Seal#	Truss Name	Date
1	I48846160	F01	11/18/21
2	I48846161	F02	11/18/21
3	I48846162	F03	11/18/21
4	I48846163	F04	11/18/21
5	I48846164	F05	11/18/21
6	I48846165	F06	11/18/21
7	I48846166	F07	11/18/21
8	I48846167	F08	11/18/21
9	I48846168	F09	11/18/21
10	I48846169	F10	11/18/21
11	I48846170	F11	11/18/21
12	I48846171	F12	11/18/21
13	I48846172	F13	11/18/21
14	I48846173	F14	11/18/21
	I48846174	F15	11/18/21

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

Truss Design Engineer's Name: Sevier, Scott
My license renewal date for the state of North Carolina is December 31, 2021.

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.

November 18,2021

Sevier, Scott

Job	Truss	Truss Type	Qty	Ply	LOT 4 RASSER PITMAN RD
P21-08026F	F01	Floor Supported Gable	1	1	I48846160
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 09:42:06 2021 Page 1
ID:isAr0Dyk5w9qXf4rVgNXDAyg2bQ-42msv?8zrJeqYmzwlX7OUvUc9euM0?7NZVt8DqyIJcl

0-1-8 0-1-8

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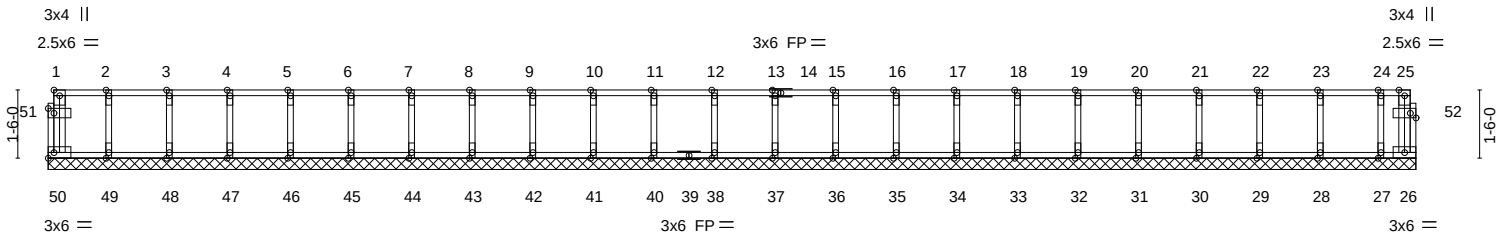

30-1-4
30-1-4

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [51:0-1-8,0-1-4], [52:0-1-8,0-1-4]

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(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	26	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 141 lb	FT = 8%F, 4%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 30-1-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 50, 26, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27

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

NOTES-
1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 0 degree rotation about its center.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 1-4-0 oc.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) 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 18,2021

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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	LOT 4 RASSER PITMAN RD
P21-08026F	F02	Floor	9	1	I48846161
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 09:42:07 2021 Page 1
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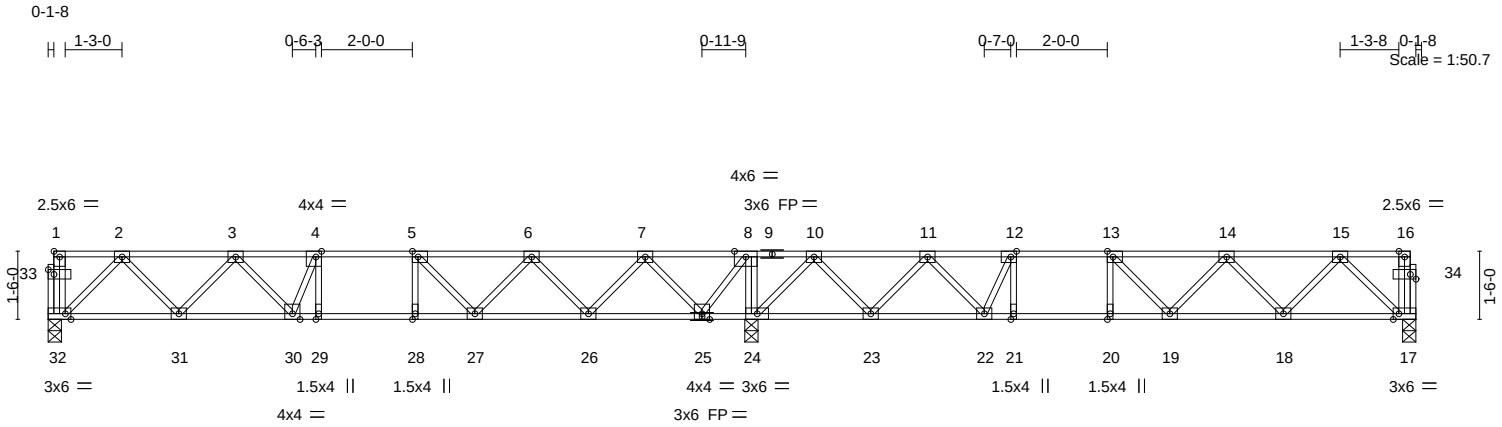

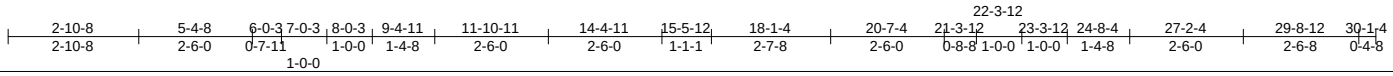

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,Edge], [32:0-1-8,Edge], [33:0-1-8,0-1-4], [34:0-1-8,0-1-4]

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	0.49	Vert(LL)	-0.10	19-20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.14	19-20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 165 lb	FT = 8%F, 4%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: 25-26,24-25,23-24,22-23.

REACTIONS. (size) 32=0-3-8, 17=0-3-8, 24=0-3-8
Max Grav 32=592(LC 10), 17=572(LC 4), 24=1518(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-917/0, 3-4=-1388/0, 4-5=-1458/0, 5-6=-1269/0, 6-7=-690/96, 7-8=0/657, 8-10=0/1195, 10-11=-477/425, 11-12=-1145/115, 12-13=-1331/0, 13-14=-1300/0, 14-15=-893/0
BOT CHORD 31-32=0/579, 30-31=0/1234, 29-30=0/1458, 28-29=0/1458, 27-28=0/1458, 26-27=0/1073, 25-26=-243/287, 24-25=-1195/0, 23-24=-604/54, 22-23=-266/880, 21-22=0/1331, 20-21=0/1331, 19-20=0/1331, 18-19=0/1204, 17-18=0/566
WEBS 12-21=0/358, 8-24=-821/0, 2-32=-799/0, 2-31=0/503, 3-31=-471/0, 5-27=-420/0, 6-27=0/347, 6-26=-612/0, 7-26=0/645, 7-25=-915/0, 8-25=0/869, 10-24=-966/0, 10-23=0/700, 11-23=-667/0, 11-22=0/494, 12-22=-649/0, 14-18=-462/0, 15-18=0/486, 15-17=-770/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

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Job	Truss	Truss Type	Qty	Ply	LOT 4 RASSER PITMAN RD
P21-08026F	F03	Floor	4	1	I48846162
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 09:42:08 2021 Page 1
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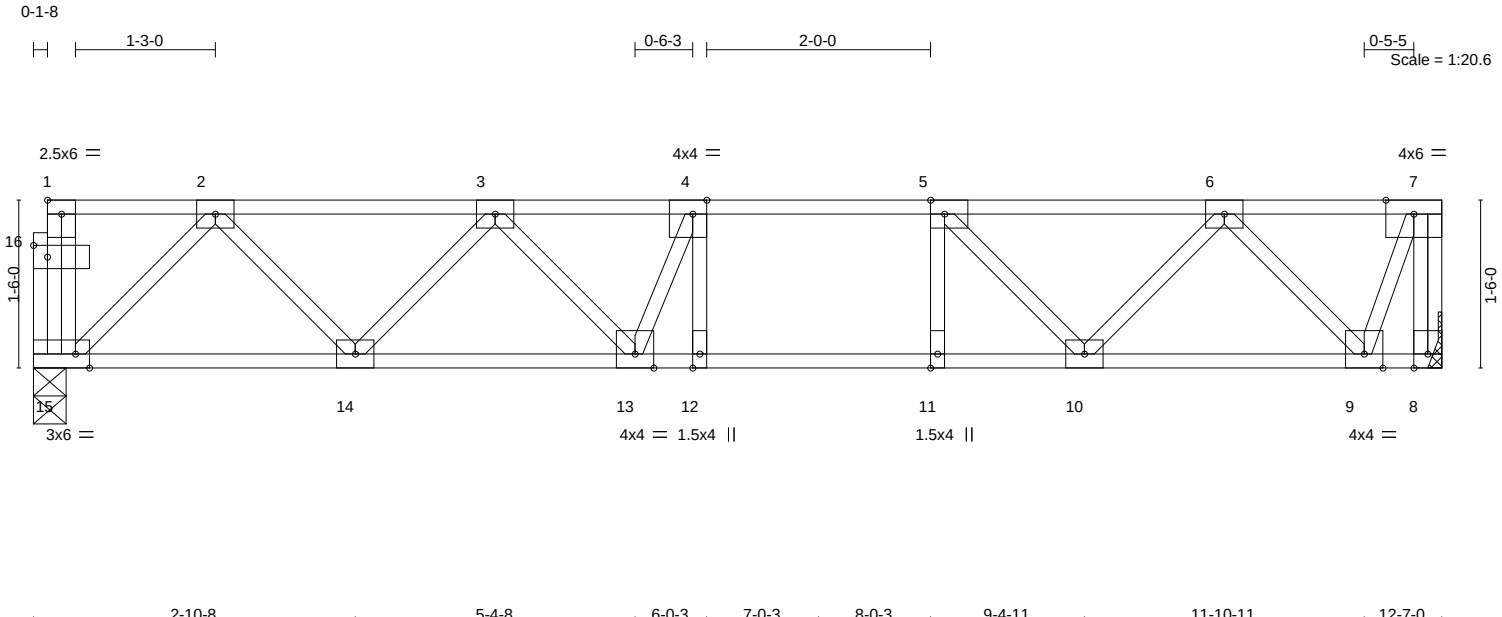

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge], [15:0-1-8,0-1-4]

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	0.32	Vert(LL)	-0.07	12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.09	12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 72 lb	FT = 8%F, 4%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. (size) 15=0-3-8, 8=Mechanical
Max Grav 15=535(LC 1), 8=540(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-544/0, 2-3=-806/0, 3-4=-1162/0, 4-5=-1170/0, 5-6=-885/0
BOT CHORD 14-15=0/517, 13-14=0/1075, 12-13=0/1170, 11-12=0/1170, 10-11=0/1170, 9-10=0/627
WEBS 2-15=-714/0, 2-14=0/429, 3-14=-400/0, 5-10=-440/0, 6-10=0/384, 6-9=-631/0, 7-9=0/530

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

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Job	Truss	Truss Type	Qty	Ply	LOT 4 RASSER PITMAN RD
P21-08026F	F04	Floor	1	1	I48846163
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 09:42:09 2021 Page 1
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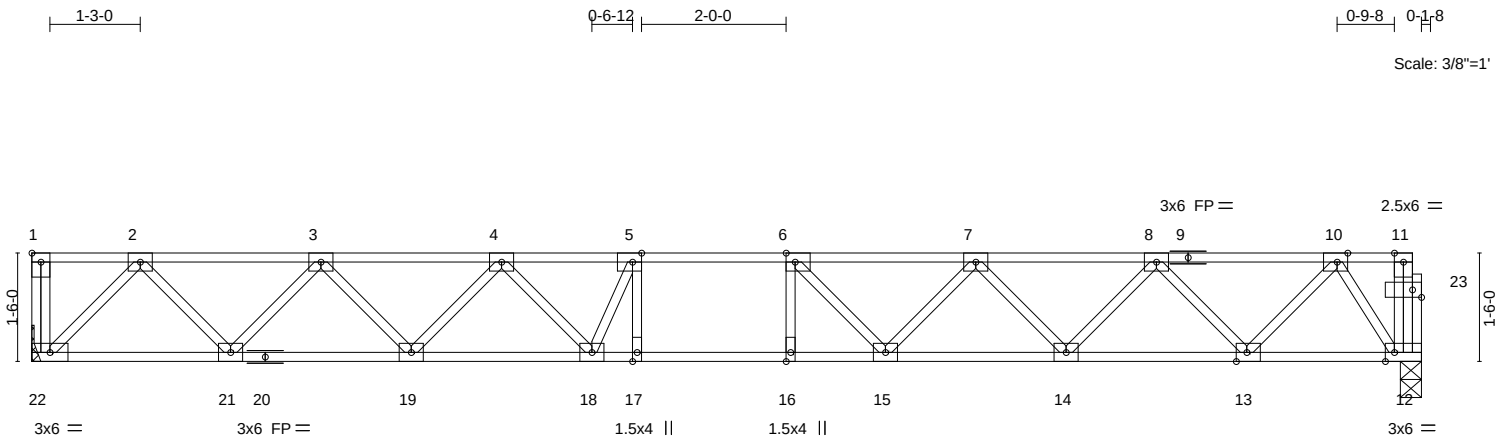

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge], [10:0-1-12,Edge], [12:0-1-8,Edge], [13:0-1-12,Edge], [23:0-1-8,0-1-4]

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	0.39	Vert(LL)	-0.18	16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.25	16	>915	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	12	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 106 lb	FT = 8%F, 4%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. (size) 22=Mechanical, 12=0-3-8
Max Grav 22=832(LC 1), 12=827(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1350/0, 3-4=-2239/0, 4-5=-2747/0, 5-6=-2841/0, 6-7=-2678/0, 7-8=-2129/0, 8-10=-1171/0
BOT CHORD 21-22=0/789, 19-21=0/1891, 18-19=0/2569, 17-18=0/2841, 16-17=0/2841, 15-16=0/2841, 14-15=0/2498, 13-14=0/1742, 12-13=0/581
WEBS 5-17=-196/259, 2-22=-1116/0, 2-21=0/835, 3-21=-804/0, 3-19=0/518, 4-19=-490/0, 4-18=0/395, 5-18=-493/124, 6-15=-438/43, 7-15=0/359, 7-14=-549/0, 8-14=0/575, 8-13=-849/0, 10-13=0/877, 10-12=-1001/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

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Job	Truss	Truss Type	Qty	Ply	LOT 4 RASSER PITMAN RD
P21-08026F	F05	Floor	1	1	I48846164
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 09:42:09 2021 Page 1
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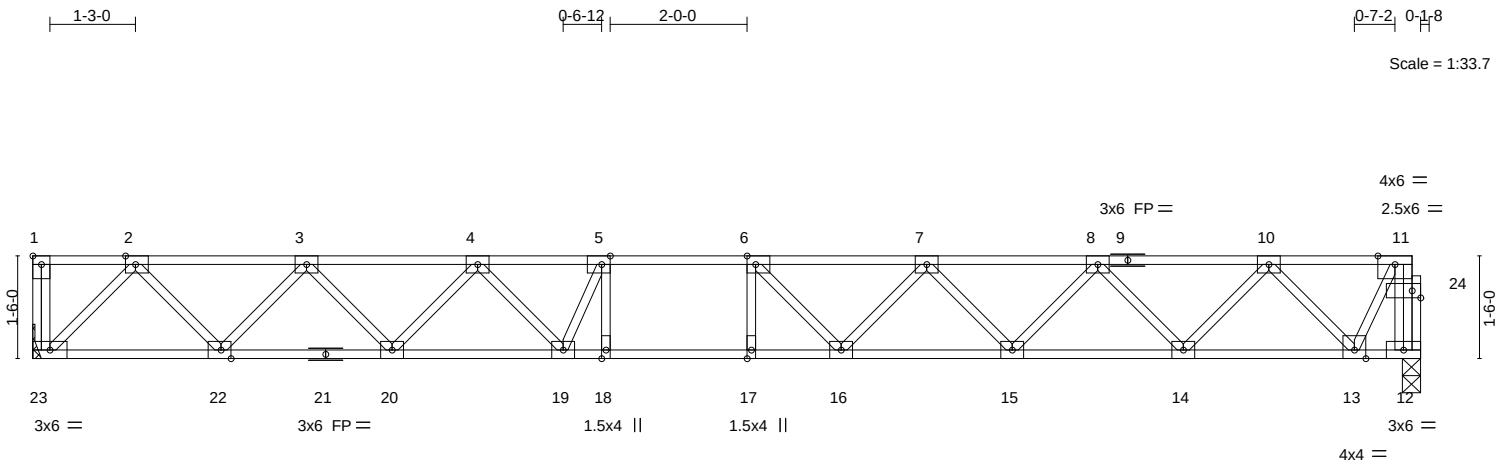

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-12,Edge], [5:0-1-8,Edge], [6:0-1-8,Edge], [22:0-1-12,Edge], [24:0-1-8,0-1-4]

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	0.48	Vert(LL)	-0.24	16-17	>998	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.33	16-17	>727	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.06	12	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 111 lb	FT = 8%F, 4%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:
2-2-0 oc bracing: 17-18.

REACTIONS. (size) 23=Mechanical, 12=0-3-3
Max Grav 23=878(LC 1), 12=873(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 11-12=-871/0, 2-3=-1438/0, 3-4=-2410/0, 4-5=-3009/0, 5-6=-3155/0, 6-7=-3069/0, 7-8=-2604/0, 8-10=-1732/0, 10-11=-464/0
BOT CHORD 22-23=0/834, 20-22=0/2022, 19-20=0/2779, 18-19=0/3155, 17-18=0/3155, 16-17=0/3155, 15-16=0/2937, 14-15=0/2256, 13-14=0/1189
WEBS 5-18=-156/331, 2-23=-1180/0, 2-22=0/898, 3-22=-868/0, 3-20=0/577, 4-20=-547/0, 4-19=0/463, 5-19=-603/64, 6-16=-385/139, 7-16=0/325, 7-15=-495/0, 8-15=0/516, 8-14=-779/0, 10-14=0/808, 10-13=-1078/0, 11-13=0/916

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	LOT 4 RASSER PITMAN RD
P21-08026F	F06	Floor	3	1	I48846165
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 09:42:10 2021 Page 1
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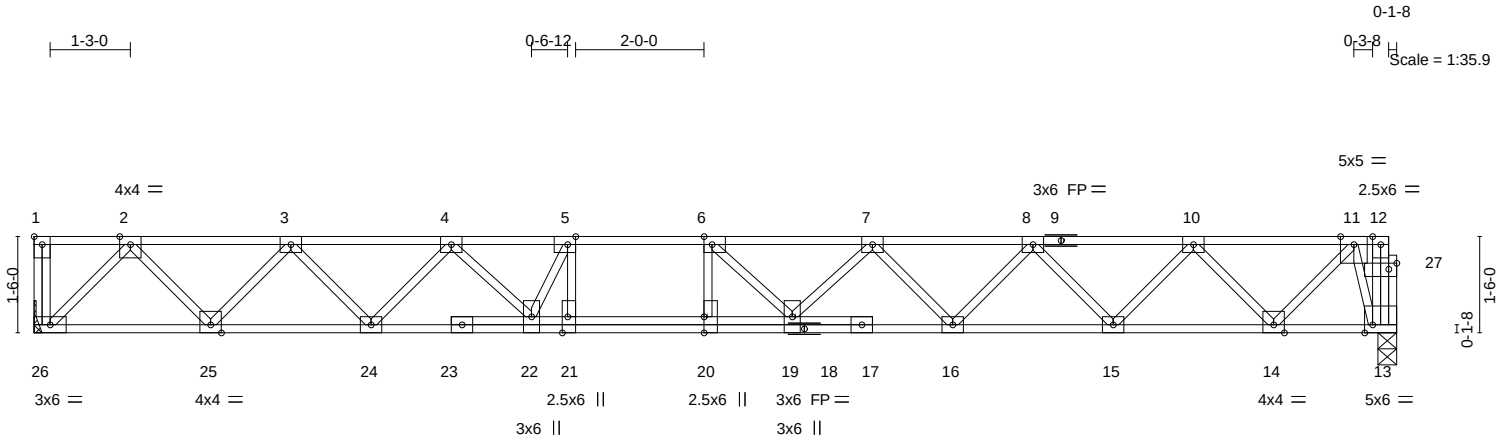


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge], [13:0-1-8,Edge], [20:0-3-0,0-0-0], [21:0-3-0,Edge], [27:0-1-8,0-1-2]

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	0.41	Vert(LL)	-0.25	19-20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.34	19-20	>728	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 125 lb	FT = 8%F, 4%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. (size) 26=Mechanical, 13=0-3-8
Max Grav 26=920(LC 1), 13=915(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1520/0, 3-4=-2556/0, 4-5=-3317/0, 5-6=-3593/0, 6-7=-3525/0, 7-8=-3019/0, 8-10=-2242/0, 10-11=-1042/0
BOT CHORD 25-26=0/878, 24-25=0/2135, 22-24=0/3003, 21-22=0/3593, 20-21=0/3593, 19-20=0/3593, 16-19=0/3366, 15-16=0/2719, 14-15=0/1736, 13-14=0/335
WEBS 5-21=-73/625, 6-20=-288/161, 2-26=-1241/0, 2-25=0/955, 3-25=-914/0, 3-24=0/627, 4-24=-665/0, 4-22=0/524, 5-22=-851/0, 6-19=-398/188, 7-19=0/331, 7-16=-516/0, 8-16=0/447, 8-15=-709/0, 10-15=0/753, 10-14=-1032/0, 11-14=0/1051, 11-13=-1024/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

November 18,2021

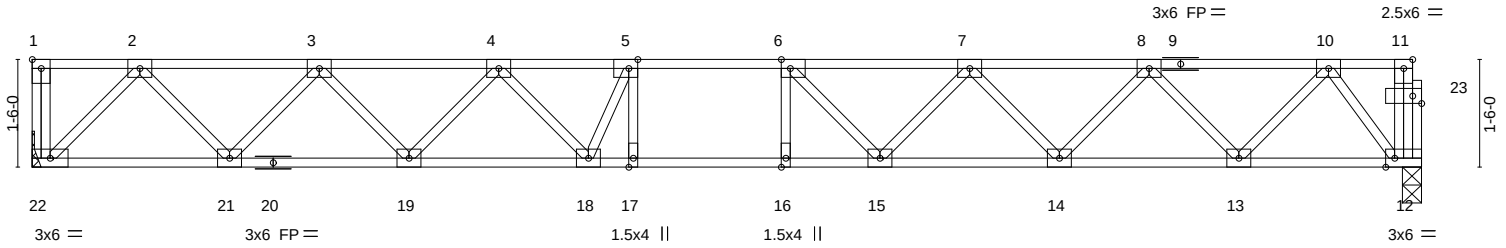
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	LOT 4 RASSER PITMAN RD
P21-08026F	F07	Floor	1	1	I48846166
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 09:42:11 2021 Page 1
ID:isAr0Dyk5w9qXf4rVgNXDAyg2bQ-Q?alyjC5frG7fXrtY4jZBzBNefPnhAP6jnavu2ylJcg

1-3-0 0-6-12 2-0-0 0-11-1 0-1-8

Scale: 3/8"=1'



2-9-0	5-3-0	7-9-0	8-5-4	9-5-4	10-5-4	11-9-12	14-3-12	16-9-12	18-11-13	19-4-5
2-9-0	2-6-0	2-6-0	0-8-4	1-0-0	1-0-0	1-4-8	2-6-0	2-6-0	2-2-1	0-4-8

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge], [12:0-1-8,Edge], [23:0-1-8,0-1-4]

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	0.40	Vert(LL)	-0.19	16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.26	16	>888	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.05	12	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 106 lb	FT = 8%F, 4%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. (size) 22=Mechanical, 12=0-3-3
Max Grav 22=837(LC 1), 12=832(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1361/0, 3-4=-2260/0, 4-5=-2779/0, 5-6=-2879/0, 6-7=-2726/0, 7-8=-2187/0, 8-10=-1240/0
BOT CHORD 21-22=0/794, 19-21=0/1907, 18-19=0/2595, 17-18=0/2879, 16-17=0/2879, 15-16=0/2879, 14-15=0/2552, 13-14=0/1805, 12-13=0/654
WEBS 5-17=-191/268, 2-22=-1123/0, 2-21=0/842, 3-21=-812/0, 3-19=0/525, 4-19=-497/0, 4-18=0/404, 5-18=-507/117, 6-15=-432/54, 7-15=0/355, 7-14=-543/0, 8-14=0/567, 8-13=-841/0, 10-13=0/870, 10-12=-1042/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

November 18,2021

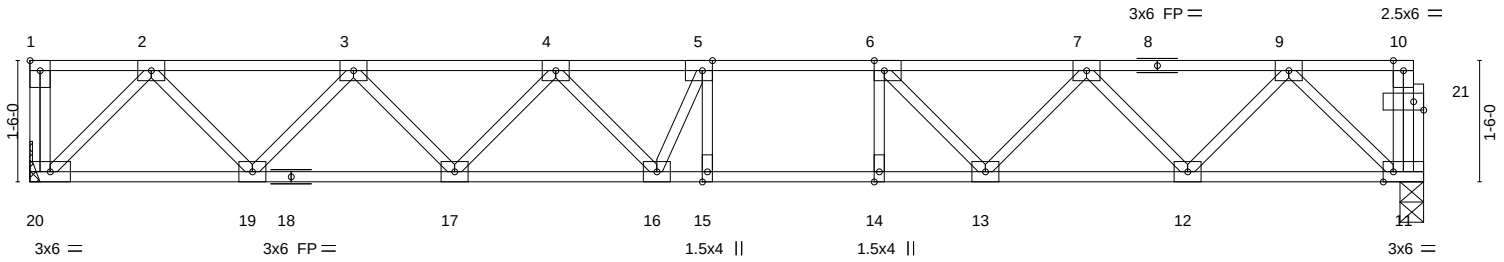
ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	LOT 4 RASSER PITMAN RD
P21-08026F	F08	Floor	6	1	I48846167
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 09:42:12 2021 Page 1
ID:isAr0Dyk5w9qXf4rVgNXDAyg2bQ-vB87A3CkQ9O_GhQ36nEokAkY22l1QepFxRKSQUyIJcf

1-3-0 | 0-6-12 | 2-0-0 | 1-3-8 | 0-1-8

Scale = 1:28.5



2-9-0	5-3-0	7-9-0	8-5-4	9-5-4	10-5-4	11-9-12	14-3-12	16-10-4	17-2-12
2-9-0	2-6-0	2-6-0	0-8-4	1-0-0	1-0-0	1-4-8	2-6-0	2-6-8	0-4-8

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge], [11:0-1-8,Edge], [21:0-1-8,0-1-4]

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	0.42	Vert(LL)	-0.15	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.20	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.04	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 95 lb	FT = 8%F, 4%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. (size) 20=Mechanical, 11=0-3-8
Max Grav 20=744(LC 1), 11=739(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1182/0, 3-4=-1914/0, 4-5=-2248/0, 5-6=-2242/0, 6-7=-1935/0, 7-9=-1221/0
BOT CHORD 19-20=0/702, 17-19=0/1642, 16-17=0/2171, 15-16=0/2242, 14-15=0/2242, 13-14=0/2242, 12-13=0/1666, 11-12=0/750
WEBS 5-15=-277/125, 2-20=-993/0, 2-19=0/715, 3-19=-683/0, 3-17=0/404, 4-17=-382/0, 4-16=-22/269, 5-16=-290/248, 6-13=-548/0, 7-13=0/428, 7-12=-662/0, 9-12=0/700, 9-11=-1022/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

November 18,2021

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

Job	Truss	Truss Type	Qty	Ply	LOT 4 RASSER PITMAN RD
P21-08026F	F09	Floor	3	1	I48846168
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 09:42:13 2021 Page 1
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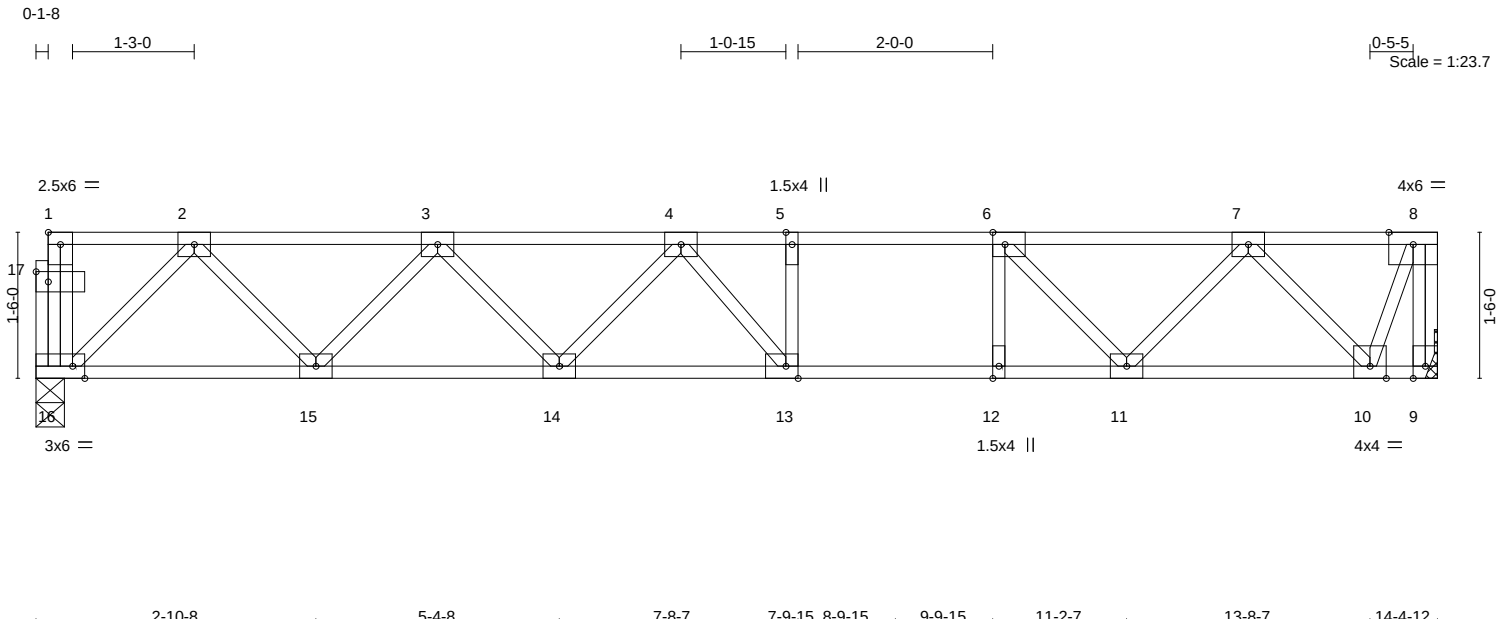

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [13:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,0-1-4]

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	0.54	Vert(LL)	-0.15	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.19	13-14	>872	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 81 lb	FT = 8%F, 4%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. (size) 16=0-3-8, 9=Mechanical
Max Grav 16=614(LC 1), 9=619(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-629/0, 2-3=-960/0, 3-4=-1471/0, 4-5=-1484/0, 5-6=-1484/0, 6-7=-1067/0
BOT CHORD 15-16=0/598, 14-15=0/1309, 13-14=0/1580, 12-13=0/1484, 11-12=0/1484, 10-11=0/721
WEBS 2-16=-826/0, 2-15=0/537, 3-15=-519/0, 4-13=-259/146, 6-11=-619/0, 7-11=0/514, 7-10=-723/0, 8-10=0/614

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

November 18,2021

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

Job	Truss	Truss Type	Qty	Ply	LOT 4 RASSER PITMAN RD
P21-08026F	F10	Floor Supported Gable	2	1	I48846169
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 09:42:13 2021 Page 1
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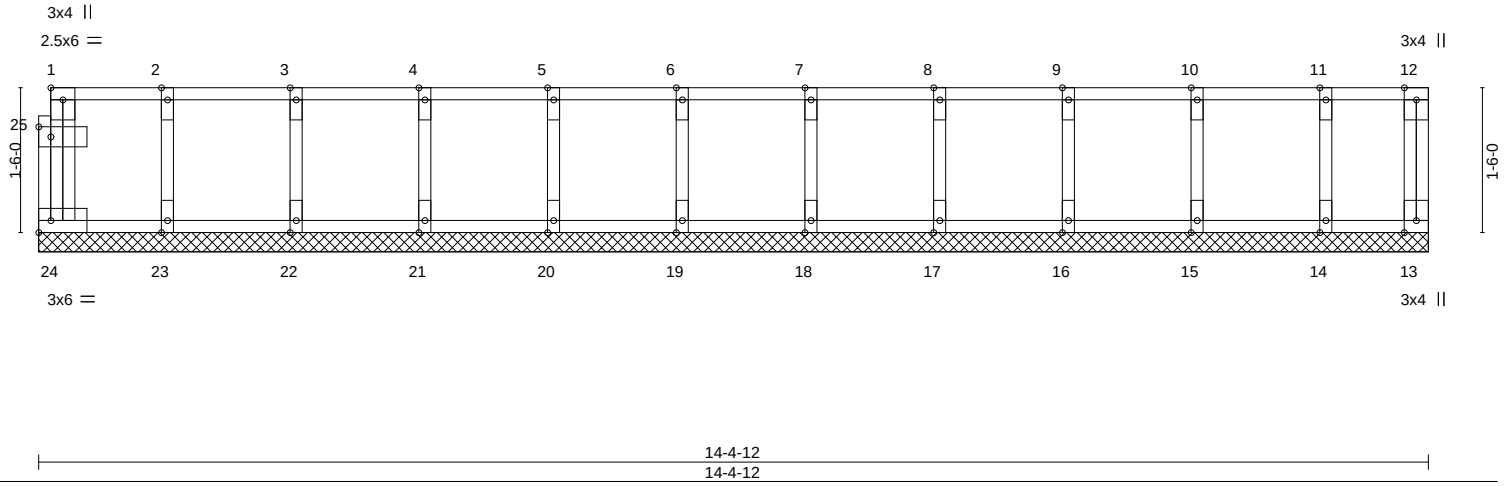
0-1-8

Scale: 1/2"=1'



14-4-12
14-4-12

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

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(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 70 lb	FT = 8%F, 4%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 14-4-12.
(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) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 0 degree rotation about its center.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 1-4-0 oc.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) 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.
9) CAUTION, Do not erect truss backwards.

November 18,2021

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

Job	Truss	Truss Type	Qty	Ply	LOT 4 RASSER PITMAN RD
P21-08026F	F11	Floor	3	1	I48846170
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 09:42:15 2021 Page 1
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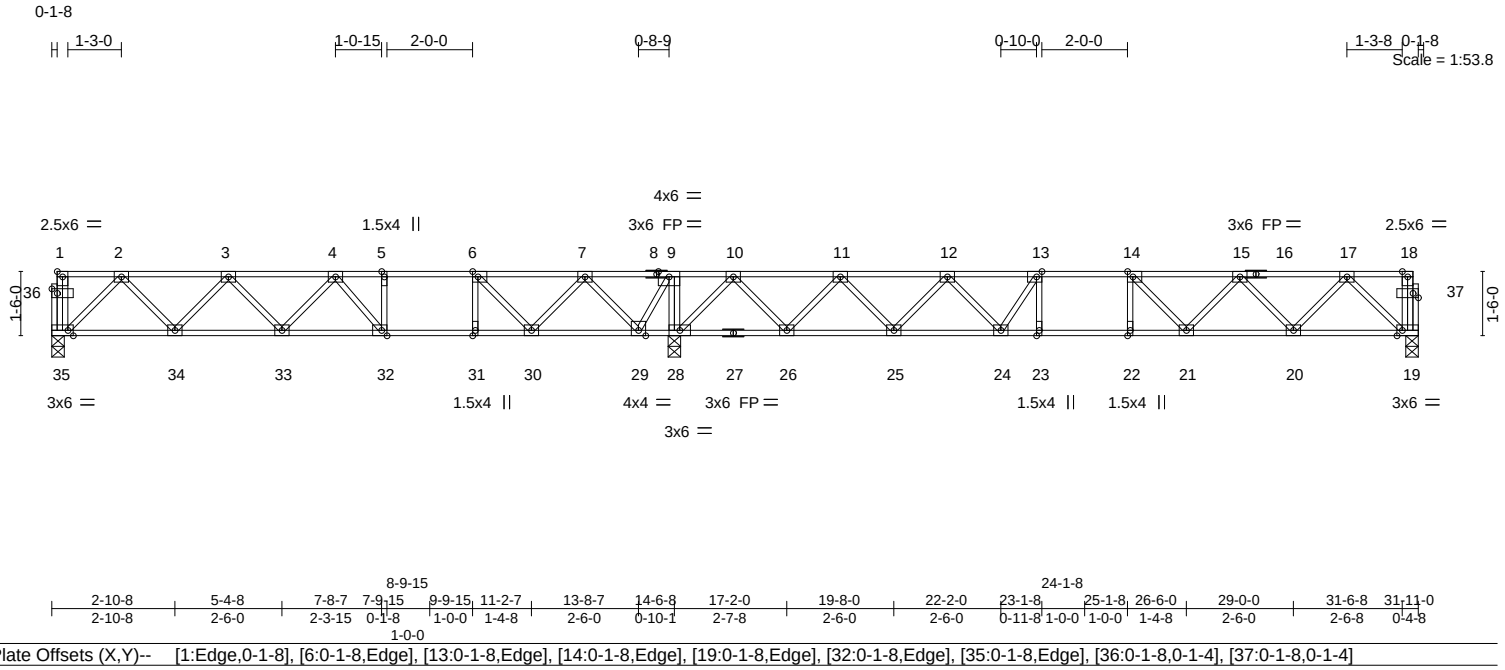

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [19:0-1-8,Edge], [32:0-1-8,Edge], [35:0-1-8,Edge], [36:0-1-8,0-1-4], [37:0-1-8,0-1-4]

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	0.73	Vert(LL)	-0.17	32-33	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.23	32-33	>764	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04	19	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 173 lb	FT = 8%F, 4%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. (size) 35=0-3-8, 19=0-3-8, 28=0-3-8
Max Grav 35=581(LC 3), 19=677(LC 7), 28=1590(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-895/0, 3-4=-1351/0, 4-5=-1279/176, 5-6=-1279/176, 6-7=-806/441, 7-9=0/919, 9-10=0/1242, 10-11=-424/64, 11-12=-1314/0, 12-13=-1805/0, 13-14=-1906/0, 14-15=-1699/0, 15-17=-1099/0
BOT CHORD 34-35=0/564, 33-34=0/1215, 32-33=-10/1424, 31-32=-176/1279, 30-31=-176/1279, 29-30=-642/426, 28-29=-1242/0, 26-28=-455/0, 25-26=0/965, 24-25=0/1645, 23-24=0/1906, 22-23=0/1906, 21-22=0/1906, 20-21=0/1495, 19-20=0/682
WEBS 6-31=0/280, 9-28=-798/0, 2-35=-778/0, 2-34=0/492, 3-34=-476/0, 4-32=-455/0, 6-30=-844/0, 7-30=0/672, 7-29=-833/0, 9-29=0/754, 10-28=-1114/0, 10-26=0/865, 11-26=-843/0, 11-25=0/556, 12-25=-526/0, 12-24=0/336, 13-24=-392/0, 14-21=-356/0, 15-21=0/304, 15-20=-587/0, 17-20=0/621, 17-19=-929/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

November 18,2021

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

Job	Truss	Truss Type	Qty	Ply	LOT 4 RASSER PITMAN RD
P21-08026F	F12	Floor Supported Gable	1	1	I48846171
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 09:42:16 2021 Page 1
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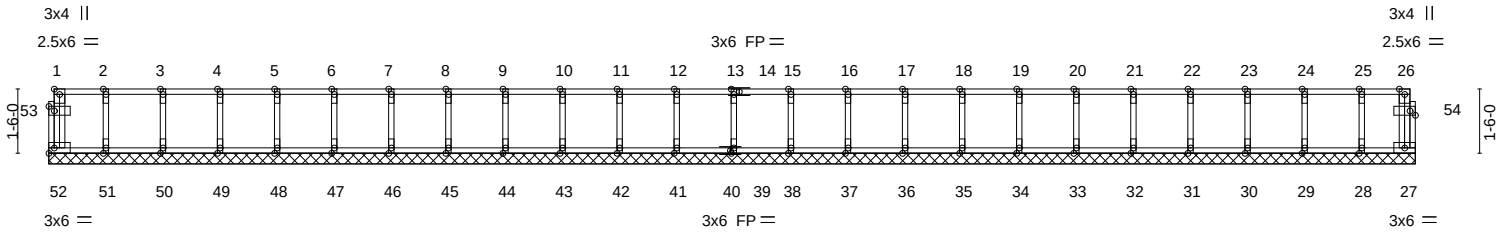
0-1-8 0-1-8

Scale = 1:53.8



31-11-0
31-11-0

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [53:0-1-8,0-1-4], [54:0-1-8,0-1-4]

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(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	27	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 148 lb	FT = 8%F, 4%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 31-11-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 52, 27, 51, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28

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

NOTES-
1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x4 MT20 unless otherwise indicated.
3) Plates checked for a plus or minus 0 degree rotation about its center.
4) Gable requires continuous bottom chord bearing.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 1-4-0 oc.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) 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 18,2021

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

Job	Truss	Truss Type	Qty	Ply	LOT 4 RASSER PITMAN RD
P21-08026F	F13	Floor	1	1	I48846172
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 09:42:17 2021 Page 1
ID:isAr0Dyk5w9qXf4rVgNXDAyg2bQ-F9x0DmGsFh1HNSI1uKqzRERQL3TY5sm?5i1D6hylJca

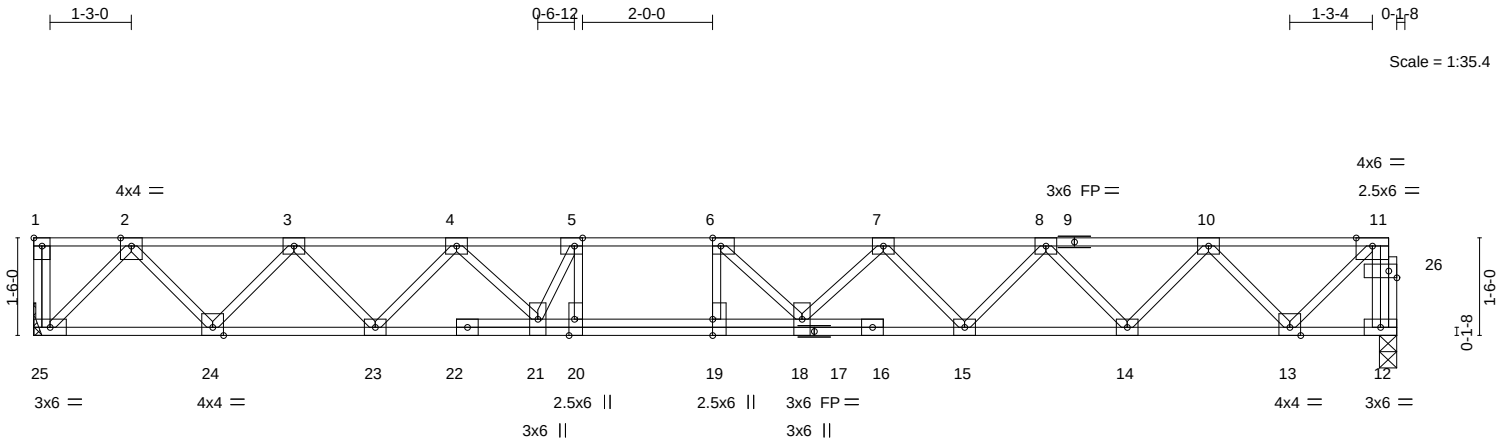


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge], [19:0-3-0,0-0-0], [20:0-3-0,Edge], [26:0-1-8,0-1-4]

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	0.38	Vert(LL)	-0.24	18-19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.33	18-19	>761	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.06	12	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-S							Weight: 123 lb	FT = 8%F, 4%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. (size) 25=Mechanical, 12=0-3-3
Max Grav 25=908(LC 1), 12=903(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 11-12=-896/0, 2-3=-1497/0, 3-4=-2512/0, 4-5=-3248/0, 5-6=-3508/0, 6-7=-3421/0, 7-8=-2896/0, 8-10=-2101/0, 10-11=-863/0
BOT CHORD 24-25=0/866, 23-24=0/2101, 21-23=0/2948, 20-21=0/3508, 19-20=0/3508, 18-19=0/3508, 15-18=0/3253, 14-15=0/2583, 13-14=0/1589
WEBS 5-20=-88/596, 6-19=-273/169, 2-25=-1224/0, 2-24=0/939, 3-24=-898/0, 3-23=0/611, 4-23=-648/0, 4-21=0/507, 5-21=-817/0, 6-18=-411/164, 7-18=0/338, 7-15=-531/0, 8-15=0/465, 8-14=-717/0, 10-14=0/761, 10-13=-1079/0, 11-13=0/1155

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 0 degree rotation about its center.
5) Refer to girder(s) for truss to truss connections.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.

November 18,2021

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

Job	Truss	Truss Type	Qty	Ply	LOT 4 RASSER PITMAN RD
P21-08026F	F14	Floor Supported Gable	2	1	I48846173
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 09:42:18 2021 Page 1
ID:isAr0Dyk5w9qXf4rVgNXDAyg2bQ-jLVPQ6HU0?97_ctDS2LC_R_gaT_3qRK8KMnme8ylJcZ

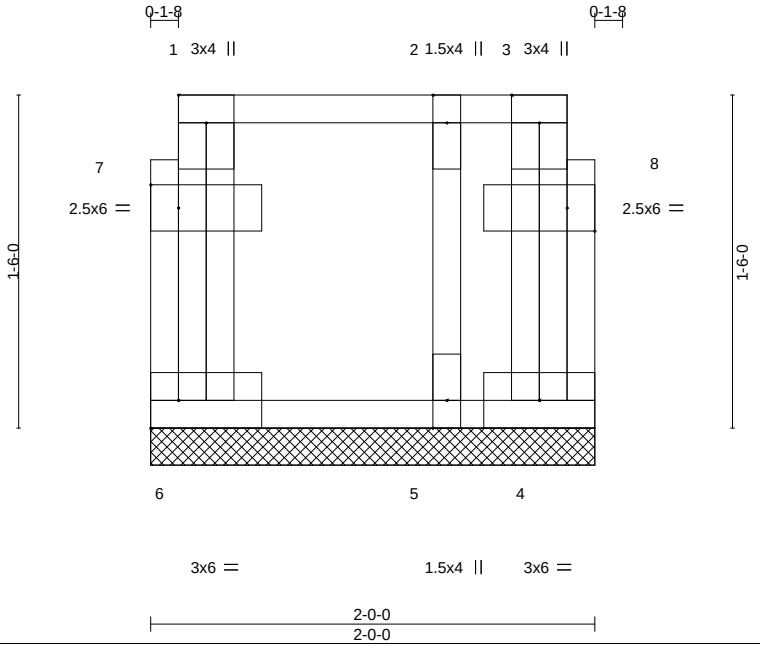


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,0-1-4], [8:0-1-8,0-1-4]

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	0.03	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	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 18 lb	FT = 8%F, 4%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 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=2-0-0, 4=2-0-0, 5=2-0-0
Max Grav 6=60(LC 1), 4=27(LC 1), 5=79(LC 1)

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

NOTES-
1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) Plates checked for a plus or minus 0 degree rotation about its center.
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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

November 18,2021

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TRENCO
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	LOT 4 RASSER PITMAN RD
P21-08026F	F15	FLOOR	1	2	I48846174
					Job Reference (optional)

Longleaf Truss Company, West End, NC - 27376, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Nov 17 09:42:18 2021 Page 1
ID:isAr0Dyk5w9qXf4rVgNXDAyg2bQ-jLVPQ6HU0?97_ctDS2LC_R_Z3TrFqL98KMnme8yIJcZ

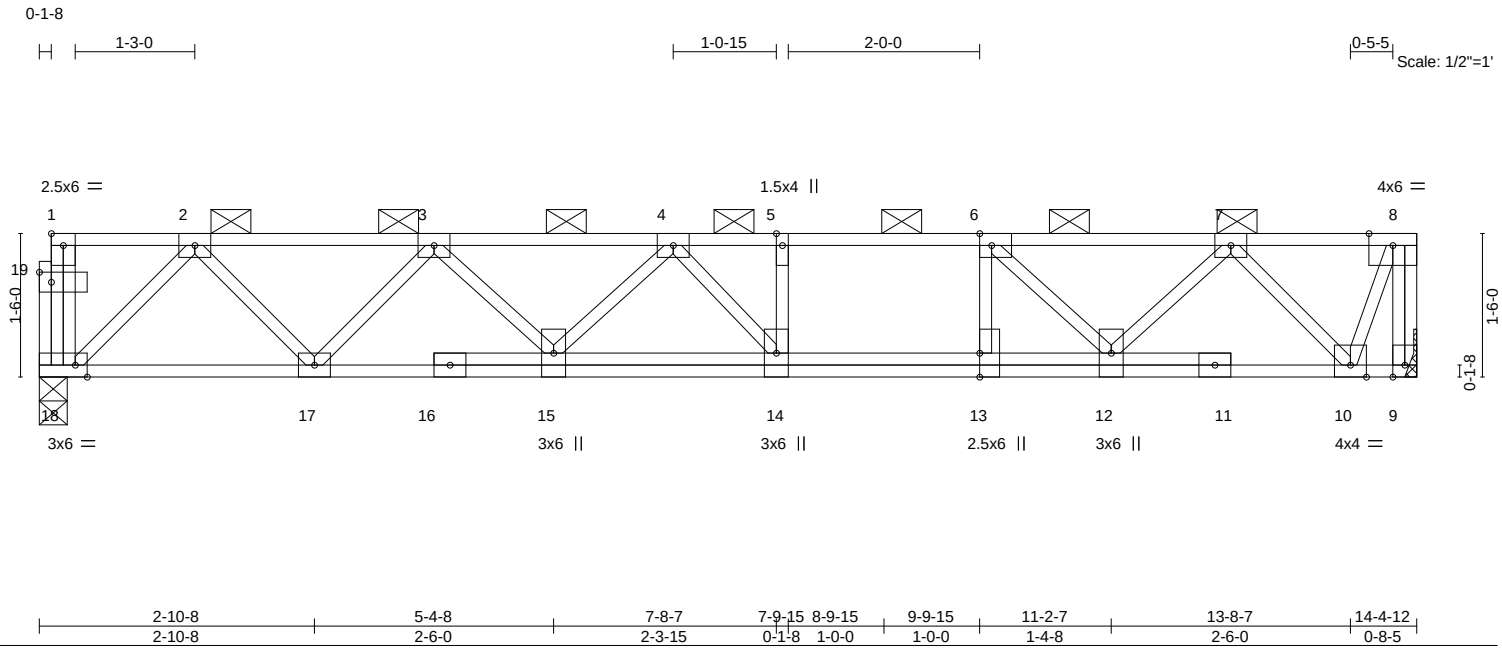

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [13:0-3-0,0-0-0], [18:0-1-8,Edge], [19:0-1-8,0-1-4]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.11	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.15	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 184 lb	FT = 8%F, 4%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 2-0-0 oc purlins (6-0-0 max.): 1-8
(Switched from sheeted: Spacing > 2-10-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=0-3-8, 9=Mechanical
Max Grav 18=1761(LC 1), 9=1775(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-1765/0, 2-3=-2740/0, 3-4=-4346/0, 4-5=-4464/0, 5-6=-4464/0, 6-7=-3126/0, 7-8=-664/0
BOT CHORD 17-18=0/1707, 15-17=0/3805, 14-15=0/4645, 13-14=0/4464, 12-13=0/4464, 10-12=0/2107
WEBS 5-14=-261/0, 6-13=0/912, 2-18=-2356/0, 2-17=0/1536, 3-17=-1582/0, 3-15=0/786, 4-15=-530/0, 4-14=-549/443, 6-12=-1945/0, 7-12=0/1478, 7-10=-2146/0, 8-10=0/1738

NOTES-
1) Fasten trusses together to act as a single unit as per standard industry detail, or loads are to be evenly applied to all plies.
2) Unbalanced floor live loads have been considered for this design.
3) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
4) All plates are 3x4 MT20 unless otherwise indicated.
5) Plates checked for a plus or minus 0 degree rotation about its center.
6) Refer to girder(s) for truss to truss connections.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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.
10) CAUTION, Do not erect truss backwards.

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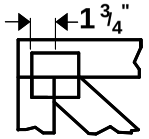
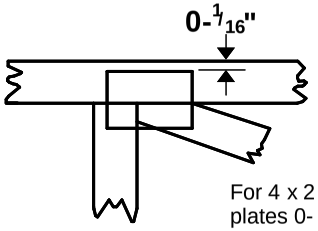
Symbols

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.

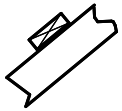
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

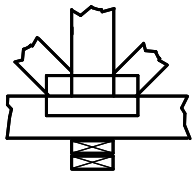
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

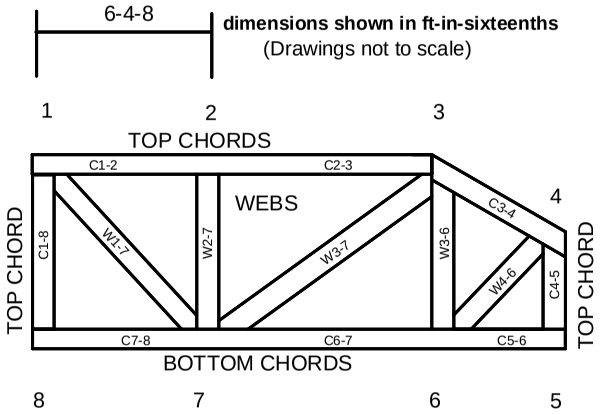


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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
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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/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.
21. The design does not take into account any dynamic or other loads other than those expressly stated.