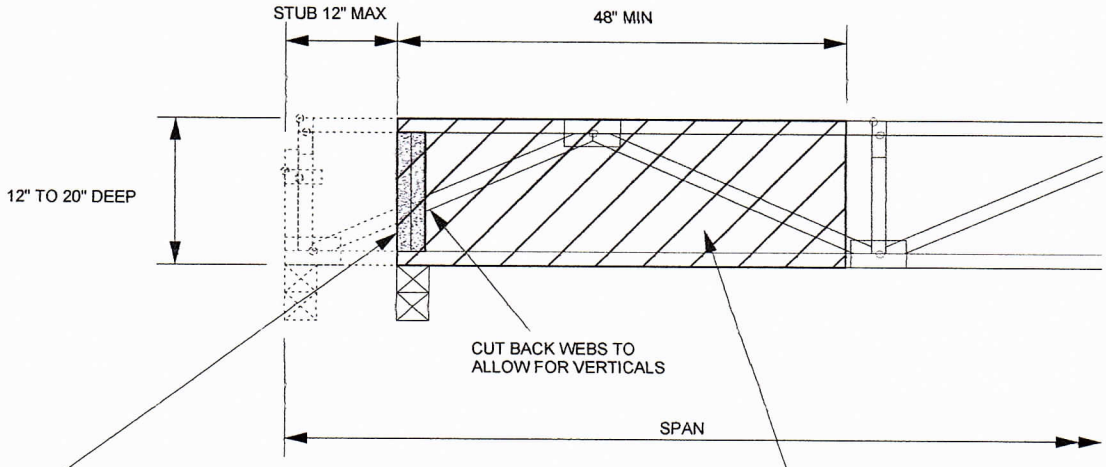
AUGUST 1, 2016	STANDARD REPAIR DETAIL FOR STUBBING A FLOOR TRUSS	MII-REP07

MiTek USA, Inc.
ENGINEERED BY TRENCO
A MiTek Affiliate

1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED.
2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.
3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.
5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X_ ORIENTATION ONLY.
6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.

DUCT OPENINGS MUST BE LOCATED WITHIN 12" OF THE CENTER OF THE ORIGINAL SPAN

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES



ADD DOUBLE 4X2 SPF STUD OR BETTER BLOCKING CUT TO FIT TIGHT BETWEEN CHORDS

ATTACH 3/4" PLYWOOD OR OSB GUSSET (23/32" APA RATED SHEATHING 48/24 EXP 1) TO EACH SIDE OF TRUSS WITH CONSTRUCTION QUALITY ADHESIVE AND ONE ROW OF 10d (0.148" X 3") NAILS SPACED 4" O.C.. ✳

✳WHEN USING NAILS OF SMALLER DIAMETER (0.131" X 3") REDUCE SPACING TO 3" O.C.

MAX. SPAN

DEPTH	24" O.C.	19.2" O.C.	16" O.C.
12"	16'-6"	20'-0"	20'-0"
14"	19'-3"	23'-4"	23'-4"
16"	22'-0"	26'-8"	26'-8"
18"	24'-10"	30'-0"	30'-0"
20"	27'-7"	30'-4"	30'-4"

LOADING
TCLL = 40 PSF
TCDL = 10 PSF
BCLL = 0 PSF
BCDL = 5 PSF

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 25192 FRANK R. LASSITER

NORTH CAROLINA PROFESSIONAL SEAL 030652 ENGINEER FRANK R. LASSITER

COMMONWEALTH OF VIRGINIA FRANK R. LASSITER Lic. No. 034728 PROFESSIONAL ENGINEER

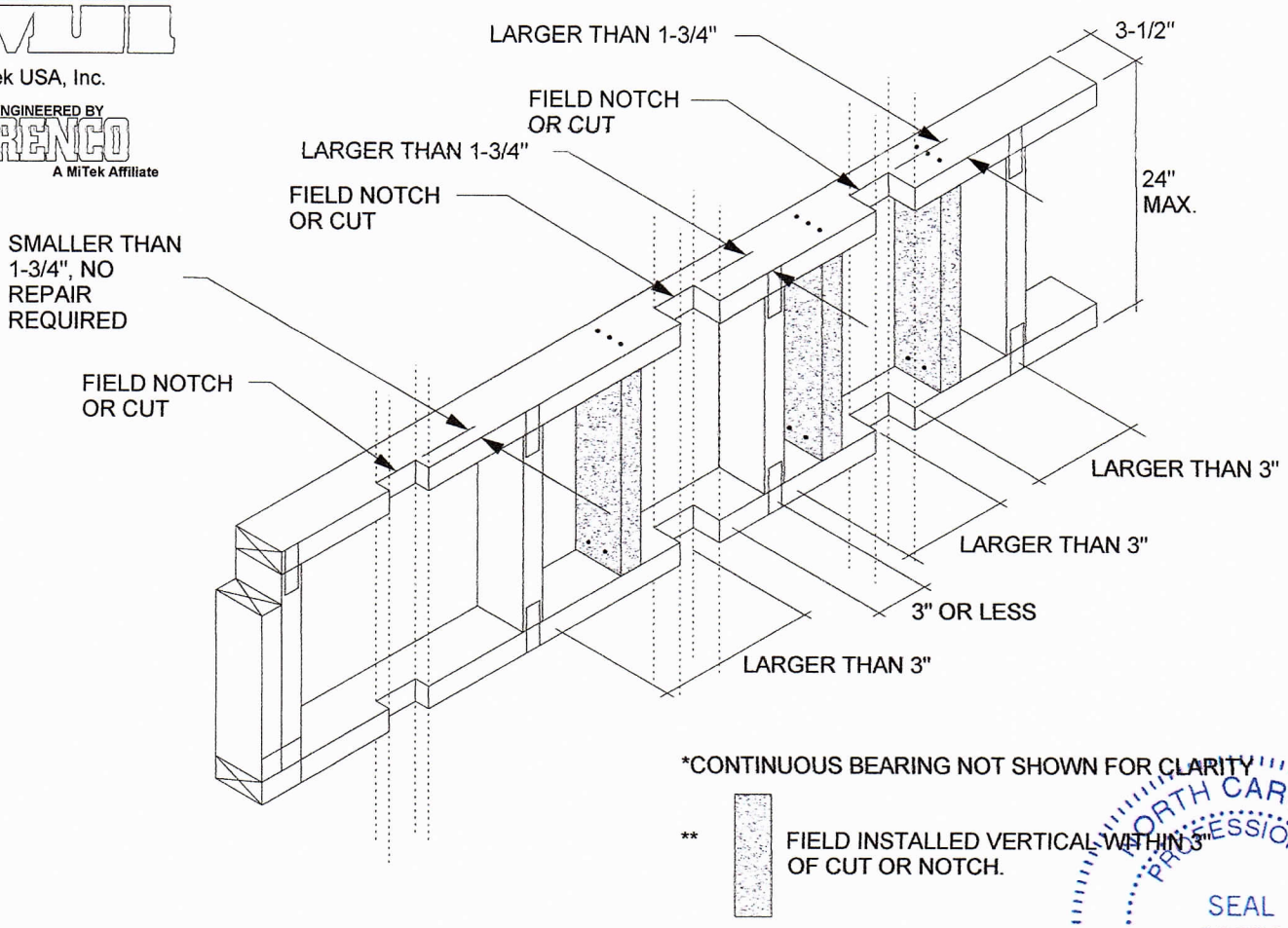
April 20,2020

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

JANUARY 12, 2018	FLOOR GABLE REPAIR DETAIL	FLR-GBL

MiTek USA, Inc.

ENGINEERED BY TRENCO
A MiTek Affiliate



*CONTINUOUS BEARING NOT SHOWN FOR CLARITY

** FIELD INSTALLED VERTICAL WITHIN 3" OF CUT OR NOTCH.

FLOOR GABLES(S) (LADDER TRUSSES) ARE CONVENTIONAL WALLS WITH CONNECTOR PLATES PER ANSI/TPI1 SECTION 6.6 AND USED IN CONVENTIONAL WALL FRAMING MEETING IRC SECTION R602. REFER TO MITEK/TRENCO DESIGN DRAWING FOR MATERIAL SPECIFICATIONS.

1. THIS DETAIL VALID ONLY FOR VERTICAL DOWNWARD ACTING LOADS. DRAG, SHEAR, OR LATERAL LOADS HAVE NOT BEEN CONSIDERED.
2. FLOOR GABLES MAY BE STUBBED DUE TO CHANGE IN FIELD CONDITIONS; ADD FIELD INSTALLED MEMBER(S) AT STUBBED END.
3. NOTCHING/CUTTING OF CHORDS SHALL BE PERMITTED AS SHOWN. FIELD INSTALLED VERTICALS SHALL BE ADDED WHEN THE NOTCH/CUT IS LARGER THAN 1-3/4" AND NOTCH/CUT END IS GREATER THAN 3" FROM ANOTHER VERTICAL MEMBER.
4. FIELD INSTALLED MEMBERS SHALL BE 2x4 No. 3 OR BETTER, CUT TO FIT TIGHT, AND ATTACHED WITH (3) 3" x 0.131" END NAILS OR (4) 3"x 0.131" TOE NAILS AT EACH END.
5. NOTCHING/CUTTING OF VERTICALS STUDS PERMITTED PER THE LOCAL, STATE OR NATIONAL BUILDING CODE.
6. SEE IRC SECTION R602 WOOD WALL FRAMING FOR ADDITIONAL REQUIREMENTS NOT LISTED HERE.
7. CONCENTRATED LOADS FROM ABOVE (POSTS OR MULTIPLE STUDS BELOW HEADERS) MUST HAVE AN EQUAL NUMBER OF STUDS IN THE LADDER FRAME DIRECTLY BELOW.
8. FOR UNIFORMLY LOADED LADDER FRAMES WITH A WALL ABOVE, THE STUDS IN THE WALL NEED NOT ALIGN WITH THE STUDS OF THE LADDER ASSUMING THE WALL ABOVE HAS A 1 1/2" SOLE PLATE OF EQUAL WIDTH TO THE LADDER FRAME BELOW.

NORTH CAROLINA PROFESSIONAL SEAL 16673 ENGINEER MARVIN A. STRZYZEWSKI

COMMONWEALTH OF VIRGINIA MARVIN A STRZYZEWSKI LIC. NO. 021091 PROFESSIONAL ENGINEER

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL No. 13627 MARVIN A. STRZYZEWSKI

September 6,2019

ENGINEERING BY TRENCO
818 Soundside Road
Edenton, NC 27932

#26360265

Job	Truss	Truss Type	Qty	Ply	Lamco Custom - Jackson	
~~2489096~~	F1	Floor	3	1	LOT 185 BM. Job Reference (optional)	E15627830

Builders FirstSource (Albemarle), Albemarle, NC - 28001, 8.430 s Mar 22 2021 MiTek Industries, Inc. Sun Apr 18 09:06:31 2021 Page 1
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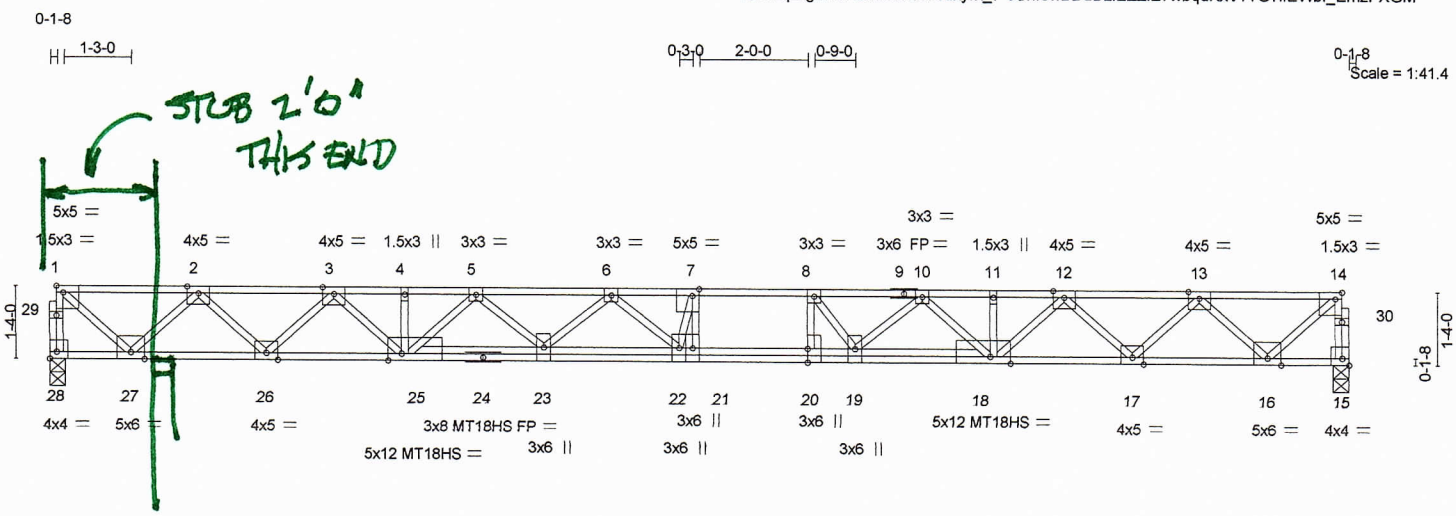


	12-0-0	13-0-0	14-0-0	24-0-0
	12-0-0	1-0-0	1-0-0	10-0-0

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [14:0-1-8,Edge], [15:Edge,0-1-8], [18:0-4-8,Edge], [20:0-3-0,0-0-0], [25:0-3-0,Edge], [28:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.55	22	>514	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.76	22	>373	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.11	15	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 141 lb	FT = 20%F, 11%E

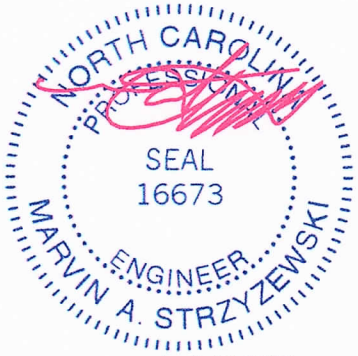
LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 1-9: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 28=0-3-8, 15=0-3-8
Max Grav 28=1300(LC 1), 15=1300(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-28=-1294/0, 14-15=-1294/0, 1-2=-1359/0, 2-3=-3479/0, 3-4=-5452/0, 4-5=-5439/0, 5-6=-6293/0, 6-7=-6694/0, 7-8=-6643/0, 8-10=-6298/0, 10-11=-5439/0, 11-12=-5456/0, 12-13=-3479/0, 13-14=-1359/0
BOT CHORD 26-27=0/2571, 25-26=0/4458, 23-25=0/5952, 22-23=0/6618, 21-22=0/6643, 20-21=0/6643, 19-20=0/6643, 18-19=0/5926, 17-18=0/4458, 16-17=0/2571
WEBS 7-21=-869/427, 8-20=-242/574, 1-27=0/1756, 2-27=-1686/0, 2-26=0/1263, 3-26=-1360/0, 3-25=0/1239, 5-25=-747/0, 5-23=0/474, 6-23=-470/0, 6-22=-182/460, 7-22=-612/800, 14-16=0/1756, 13-16=-1686/0, 13-17=0/1263, 12-17=-1361/0, 12-18=0/1244, 10-18=-709/0, 10-19=0/657, 8-19=-958/65

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



April 19,2021

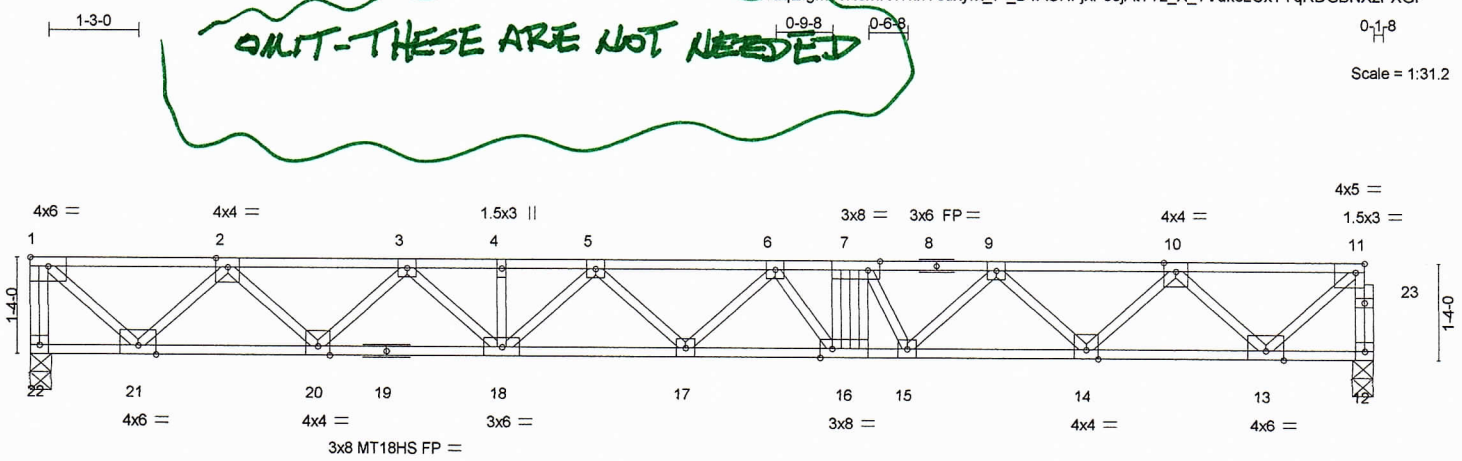
ENGINEERING BY TRENCO
818 Soundside Road
Edenton, NC 27932

#26360265

Job	Truss	Truss Type	Qty	Ply	Lamco Custom - Jackson	E15627832
2489096	F1G	Floor Girder	2	1	LOT 185 BM Job Reference (optional)	

Builders FirstSource (Albemarle), Albemarle, NC - 28001, 8.430 s Mar 22 2021 MiTek Industries, Inc. Sun Apr 18 09:06:35 2021 Page 1
ID:TzqElgM?vNsmlViTkhYcdxyrx_7-_D1AUHFjxPs8jAtTTz_X_TVdkcLCxYYqRDGBNXzPXGI

OMIT - THESE ARE NOT NEEDED



11-5-0 | 12-2-8 | 18-8-8
11-5-0 | 0-9-8 | 6-6-0

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-2-0,Edge], [11:0-1-8,Edge], [16:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.29	17	>761	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.40	16-17	>553	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.08	12	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 105 lb	FT = 20%F, 11%E

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

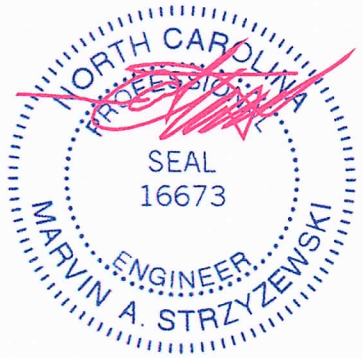
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 22=0-3-8, 12=0-3-8
Max Grav 22=1089(LC 1), 12=1126(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-22=-1082/0, 11-12=-1120/0, 1-2=-1111/0, 2-3=-2782/0, 3-4=-3904/0, 4-5=-3904/0, 5-6=-4380/0, 6-7=-4370/0, 7-9=-4091/0, 9-10=-2921/0, 10-11=-1161/0
BOT CHORD 20-21=0/2101, 18-20=0/3435, 17-18=0/4267, 16-17=0/4467, 15-16=0/4363, 14-15=0/3624, 13-14=0/2191
WEBS 1-21=0/1479, 2-21=-1377/0, 2-20=0/946, 3-20=-909/0, 3-18=0/638, 5-18=-493/0, 11-13=0/1499, 10-13=-1433/0, 10-14=0/1016, 9-14=-977/0, 9-15=0/650, 7-15=-512/0

NOTES-
1) All plates are MT20 plates unless otherwise indicated.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 190 lb down at 11-5-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-22=-10, 1-11=-100
Concentrated Loads (lb)
Vert: 7=-190(F)



April 19,2021

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

#26362G5

Job	Truss	Truss Type	Qty	Ply	Lamco Custom - Jackson	
2489096	F1E	GABLE	1	1	LOT 185 BM Job Reference (optional)	E15627831

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.430 s Mar 22 2021 MiTek Industries, Inc. Sun Apr 18 09:06:34 2021 Page 1
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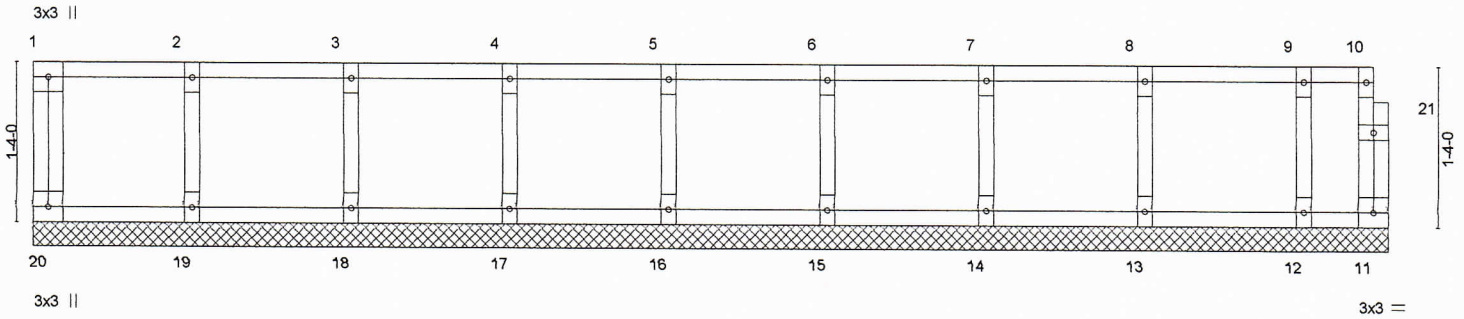
NO CHANGE NEEDED

0-1-8

Scale = 1:18.8



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-4-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-8-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R							Weight: 53 lb	FT = 20%F, 11%E

LUMBER-

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

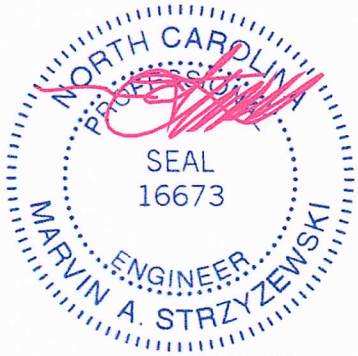
BRACING-

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

REACTIONS. All bearings 11-4-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.



April 19,2021

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

#26360265

Job	Truss	Truss Type	Qty	Ply	Lamco Custom - Jackson	
2489096	F2E	GABLE	1	1	LOT 185 BM Job Reference (optional)	E15627833

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.430 s Mar 22 2021 MiTek Industries, Inc. Sun Apr 18 09:06:35 2021 Page 1
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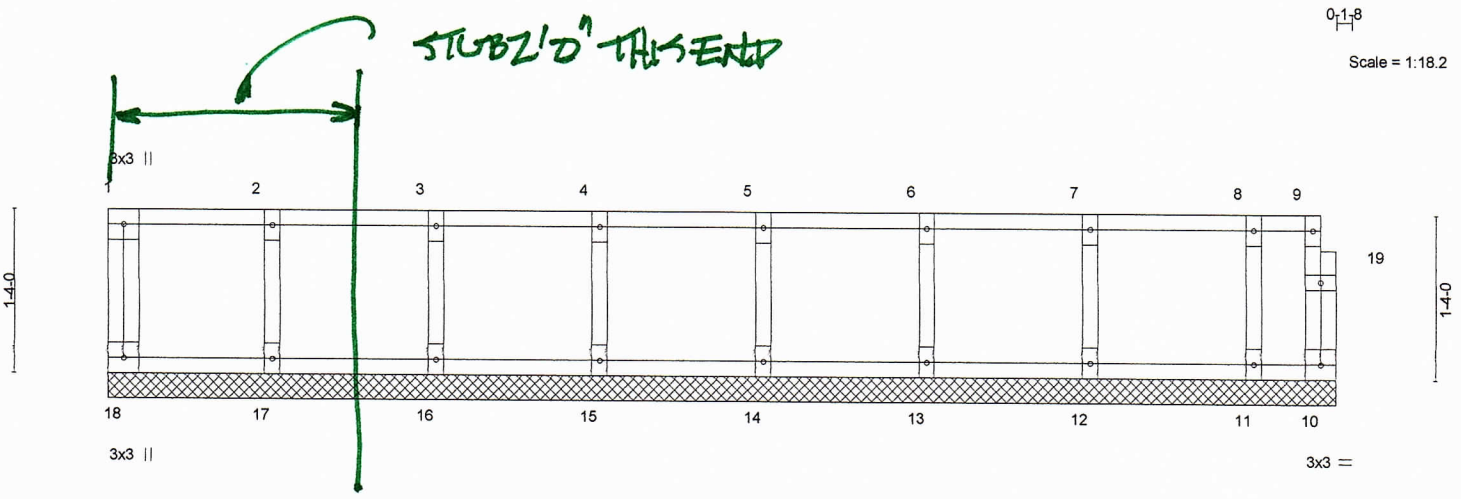


1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-8-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	10	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R							Weight: 47 lb	FT = 20%F, 11%E

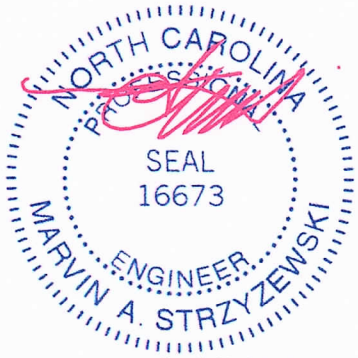
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 10-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.



April 19,2021

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

2636265

Job	Truss	Truss Type	Qty	Ply	Lamco Custom - Jackson	E15627834
2489096	F3	Floor	6	1	LOT 185 BM Job Reference (optional)	

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.430 s Mar 22 2021 MiTek Industries, Inc. Sun Apr 18 09:06:37 2021 Page 1
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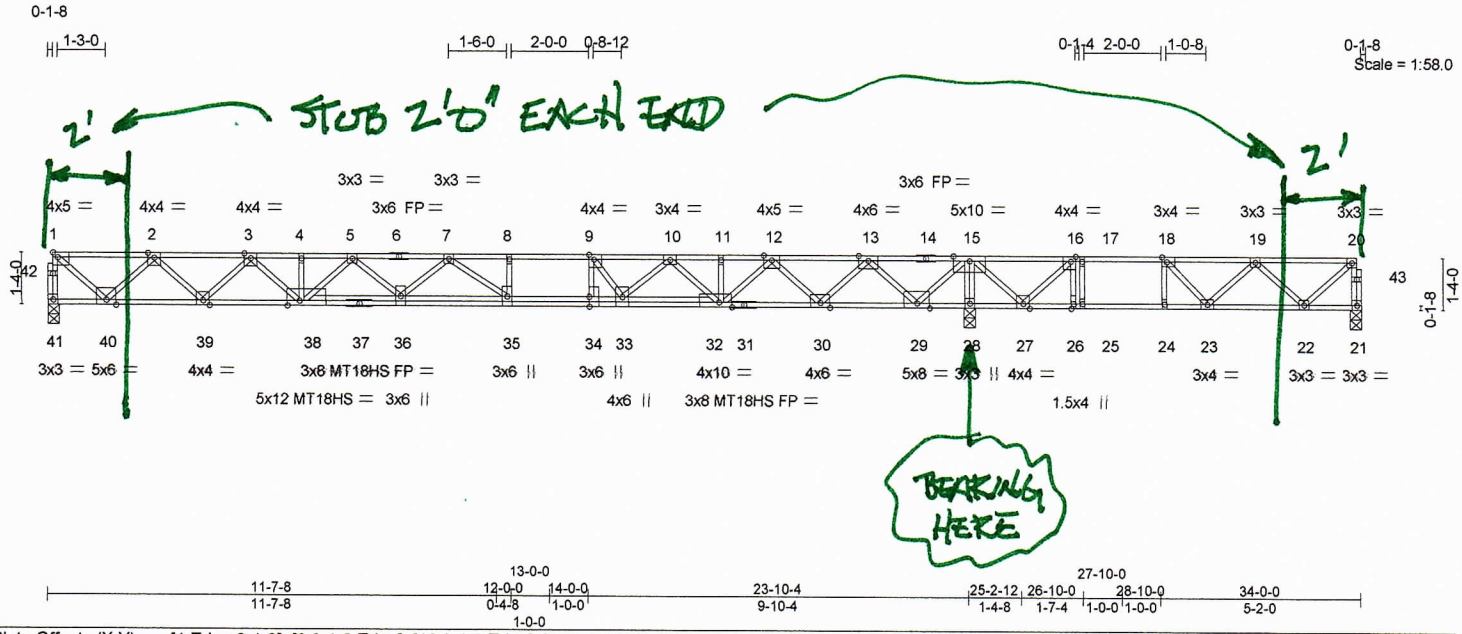


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [9:0-1-8,Edge], [16:0-1-8,Edge], [18:0-1-8,Edge], [32:0-4-0,Edge], [34:0-3-0,0-0-0], [38:0-3-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.43	35-36	>662	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.59	35-36	>483	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.07	28	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 192 lb	FT = 20%F, 11%E

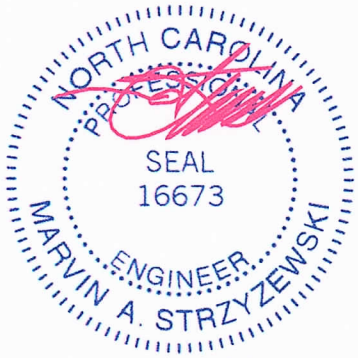
LUMBER-
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 41=0-3-8, 21=0-3-8, 28=0-3-8
Max Uplift 21=-135(LC 3)
Max Grav 41=1194(LC 9), 21=485(LC 4), 28=2241(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-41=-1188/0, 20-21=-476/147, 1-2=-1238/0, 2-3=-3142/0, 3-4=-4835/0, 4-5=-4822/0, 5-7=-5500/0, 7-8=-5484/0, 8-9=-5484/0, 9-10=-4981/0, 10-11=-3812/0, 11-12=-3831/0, 12-13=-1747/0, 13-15=0/853, 15-16=-79/1885, 16-17=-753/1160, 17-18=-753/1160, 18-19=-863/638, 19-20=-438/173
BOT CHORD 39-40=0/2342, 38-39=0/4001, 36-38=0/5251, 35-36=0/5644, 34-35=0/5484, 33-34=0/5484, 32-33=0/4432, 30-32=0/2769, 29-30=0/743, 28-29=-2314/0, 27-28=-2314/0, 26-27=-1160/753, 25-26=-1160/753, 24-25=-1160/753, 23-24=-1160/753, 22-23=-326/825
WEBS 9-34=-121/758, 17-25=-288/0, 18-24=-511/0, 15-28=-2109/0, 1-40=0/1600, 2-40=-1535/0, 2-39=0/1113, 3-39=-1192/0, 3-38=0/1041, 5-38=-624/0, 5-36=0/357, 7-36=-361/58, 7-35=-518/376, 15-29=0/1944, 13-29=-1846/0, 13-30=0/1422, 12-30=-1441/0, 12-32=0/1342, 10-32=-917/0, 10-33=0/816, 9-33=-1208/0, 15-27=0/1007, 16-27=-1499/0, 20-22=-225/562, 19-22=-538/213, 19-23=-434/54, 18-23=0/774, 16-26=0/843

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 1.5x3 MT20 unless otherwise indicated.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 21.
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.



April 19,2021

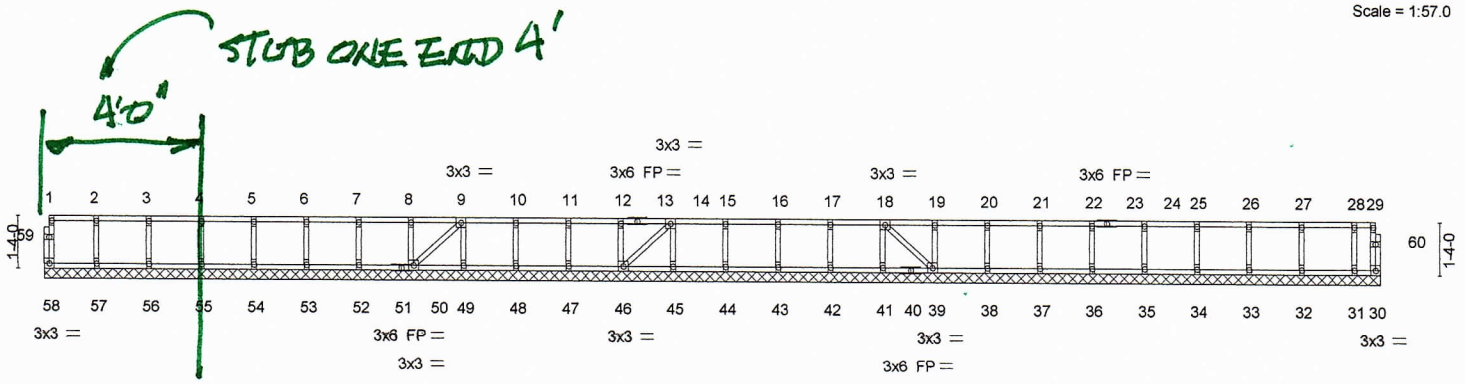
#26736265

Job	Truss	Truss Type	Qty	Ply	Lamco Custom - Jackson	
2489096	F3E	Floor Supported Gable	1	1	LOT 185 BM Job Reference (optional)	E15627835

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.430 s Mar 22 2021 MiTek Industries, Inc. Sun Apr 18 09:06:39 2021 Page 1
ID:TzqEIgM?vNsmlViTkhYcdxyrx_7-s_GgJfIE?eMZCoAFip3T9JgTIDxPtWCQMrEPWIzPXGE

0-1-8 0-1-8

Scale = 1:57.0



34-0-0
34-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	30	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 154 lb	FT = 20%F, 11%E

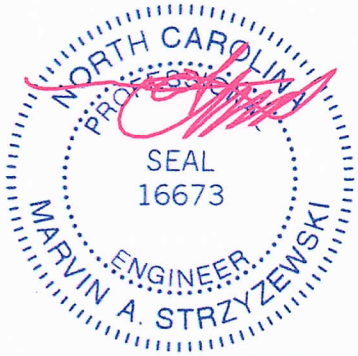
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 34-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 58, 30, 57, 56, 55, 54, 53, 52, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32, 31

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

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



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

*26362 65

Job	Truss	Truss Type	Qty	Ply	Lamco Custom - Jackson	E15627836
2489096	F6	Floor	2	1	LOT 185 BM Job Reference (optional)	

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.430 s Mar 22 2021 MiTek Industries, Inc. Sun Apr 18 09:06:39 2021 Page 1
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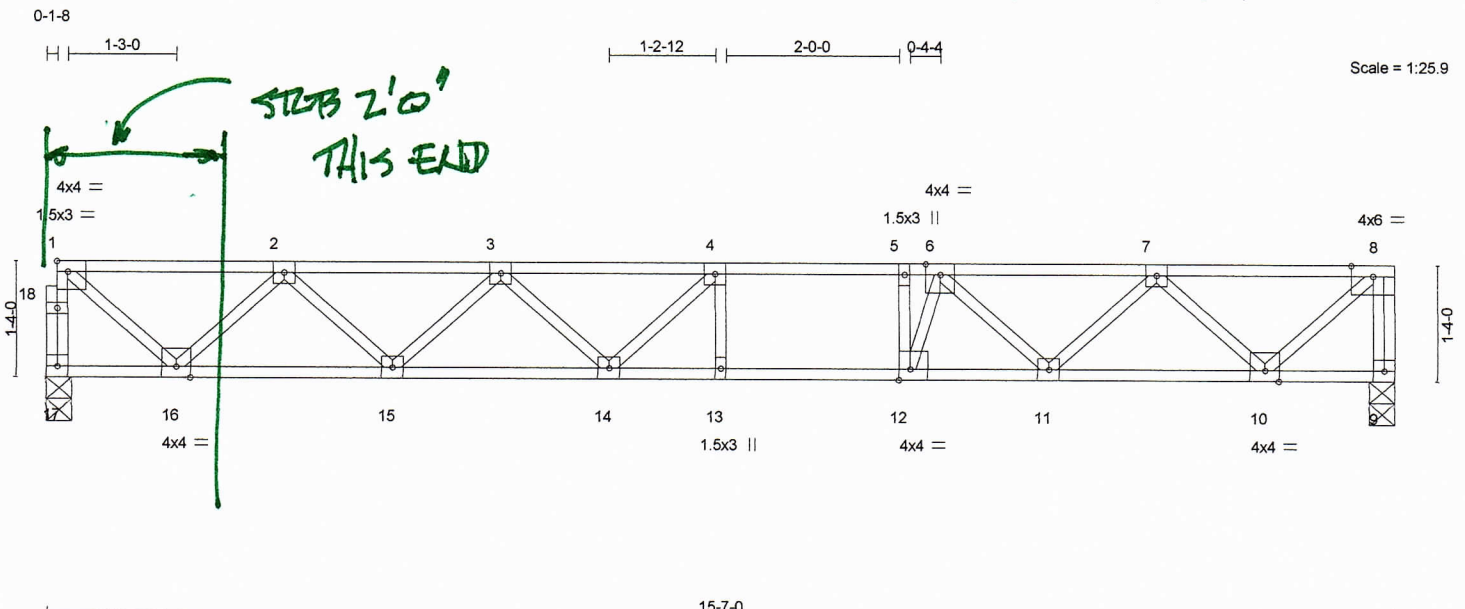


15-7-0
15-7-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.18	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.24	13-14	>754	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 82 lb	FT = 20%F, 11%E

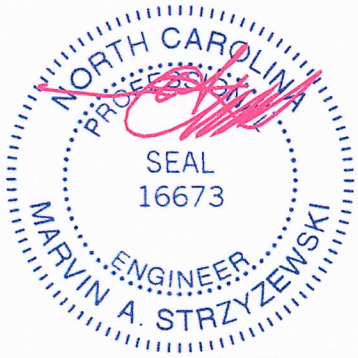
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 17=837(LC 1), 17=837(LC 1), 9=843(LC 1), 9=843(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-833/0, 8-9=-841/0, 1-2=-833/0, 2-3=-2003/0, 3-4=-2561/0, 4-5=-2604/0, 5-6=-2604/0, 6-7=-1984/0, 7-8=-838/0
BOT CHORD 15-16=0/1561, 14-15=0/2427, 13-14=0/2604, 12-13=0/2604, 11-12=0/2435, 10-11=0/1567
WEBS 5-12=-587/0, 1-16=0/1073, 2-16=-1013/0, 2-15=0/615, 3-15=-589/0, 3-14=0/312, 4-14=-321/139, 8-10=0/1115, 7-10=-1014/0, 7-11=0/580, 6-11=-627/0, 6-12=0/826

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Non Standard bearing condition. Review required.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.



April 19,2021

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Edenton, NC 27932

#2636265

Job	Truss	Truss Type	Qty	Ply	Lamco Custom - Jackson	E15627837
2489096	F8	Floor	1	1	LOT 18 BM Job Reference (optional)	

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.430 s Mar 22 2021 MiTek Industries, Inc. Sun Apr 18 09:06:40 2021 Page 1
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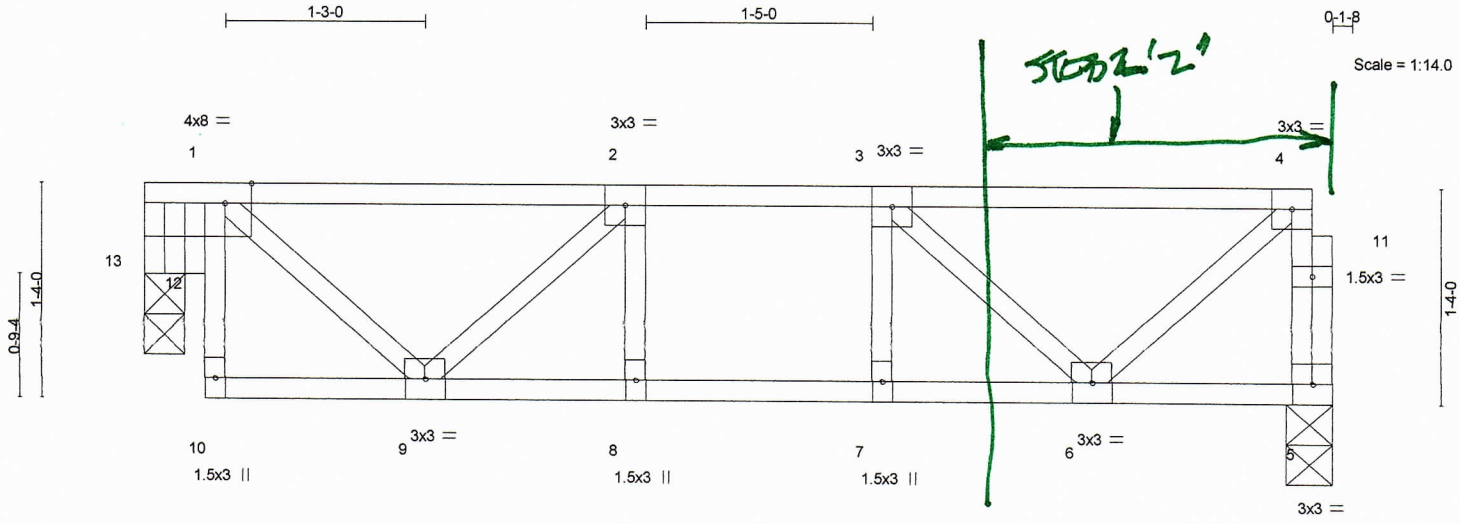


1-9-0 (1-9-0) | 5-11-0 (4-2-0) | 7-5-0 (1-6-0)

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.02	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.03	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 41 lb	FT = 20%F, 11%E

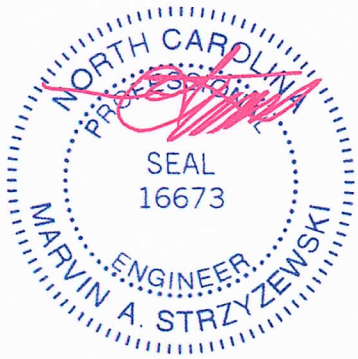
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. (size) 5=0-3-8, 13=0-3-0
Max Grav 5=384(LC 1), 13=364(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-378/0, 1-2=-355/0, 2-3=-584/0, 3-4=-310/0
BOT CHORD 8-9=0/584, 7-8=0/584, 6-7=0/584
WEBS 4-6=0/395, 1-9=0/334, 3-6=-372/0, 2-9=-312/0, 1-13=-472/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.



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818 Soundside Road
Edenton, NC 27932

#2636265

Job	Truss	Truss Type	Qty	Ply	Lamco Custom - Jackson	
2489096	F10	Floor	9	1	LOT 185 BM Job Reference (optional)	E15627838

Builders FirstSource (Albermarle), Albemarle, NC - 28001, 8.430 s Mar 22 2021 MiTek Industries, Inc. Sun Apr 18 09:06:33 2021 Page 1
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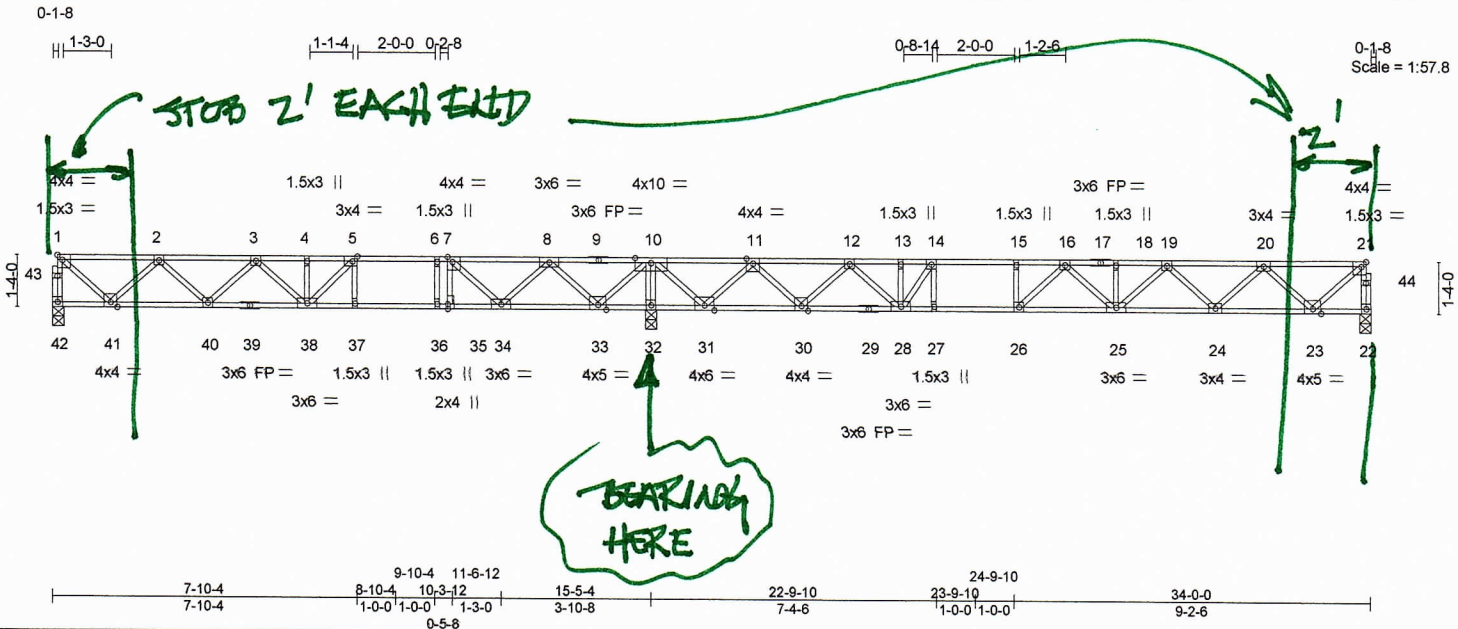


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [7:0-1-8,Edge], [21:0-1-8,Edge], [35:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.92	Vert(LL)	-0.25	25-26	>879	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.35	25-26	>639	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.05	22	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 179 lb	FT = 20%F, 11%E

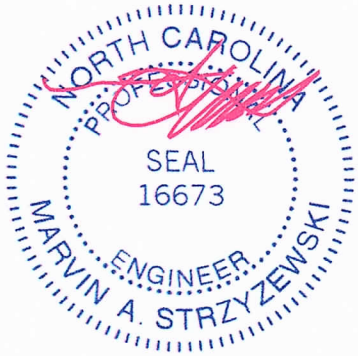
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
39-42: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 42=0-3-8, 22=0-3-8, 32=0-3-8
Max Grav 42=765(LC 3), 22=912(LC 8), 32=2128(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-42=-761/0, 21-22=-908/0, 1-2=-755/0, 2-3=-1760/0, 3-4=-2257/0, 4-5=-2257/0, 5-6=-2031/172, 6-7=-2031/172, 7-8=-1318/565, 8-10=-24/1112, 10-11=0/698, 11-12=-1400/12, 12-13=-2532/0, 13-14=-2532/0, 14-15=-3021/0, 15-16=-3021/0, 16-18=-3021/0, 18-19=-3021/0, 19-20=-2233/0, 20-21=-922/0
BOT CHORD 40-41=0/1411, 38-40=0/2095, 37-38=-172/2031, 36-37=-172/2031, 35-36=-172/2031, 34-35=-172/2031, 33-34=-840/788, 32-33=-1804/0, 31-32=-1804/0, 30-31=-258/685, 28-30=0/2076, 27-28=0/3021, 26-27=0/3021, 25-26=0/3147, 24-25=0/2724, 23-24=0/1729
WEBS 5-37=-370/0, 14-27=0/392, 10-32=-2094/0, 1-41=0/972, 2-41=-913/0, 2-40=0/486, 3-40=-466/20, 4-38=-303/0, 10-33=0/1256, 8-33=-1142/0, 8-34=0/870, 7-34=-1188/0, 10-31=0/1476, 11-31=-1402/0, 11-30=0/1041, 12-30=-984/0, 12-28=0/653, 13-28=-10/283, 21-23=0/1189, 20-23=-1123/0, 20-24=0/700, 19-24=-684/0, 19-25=0/404, 16-26=-437/170, 14-28=-1129/0, 5-38=0/718, 7-35=0/665

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.



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