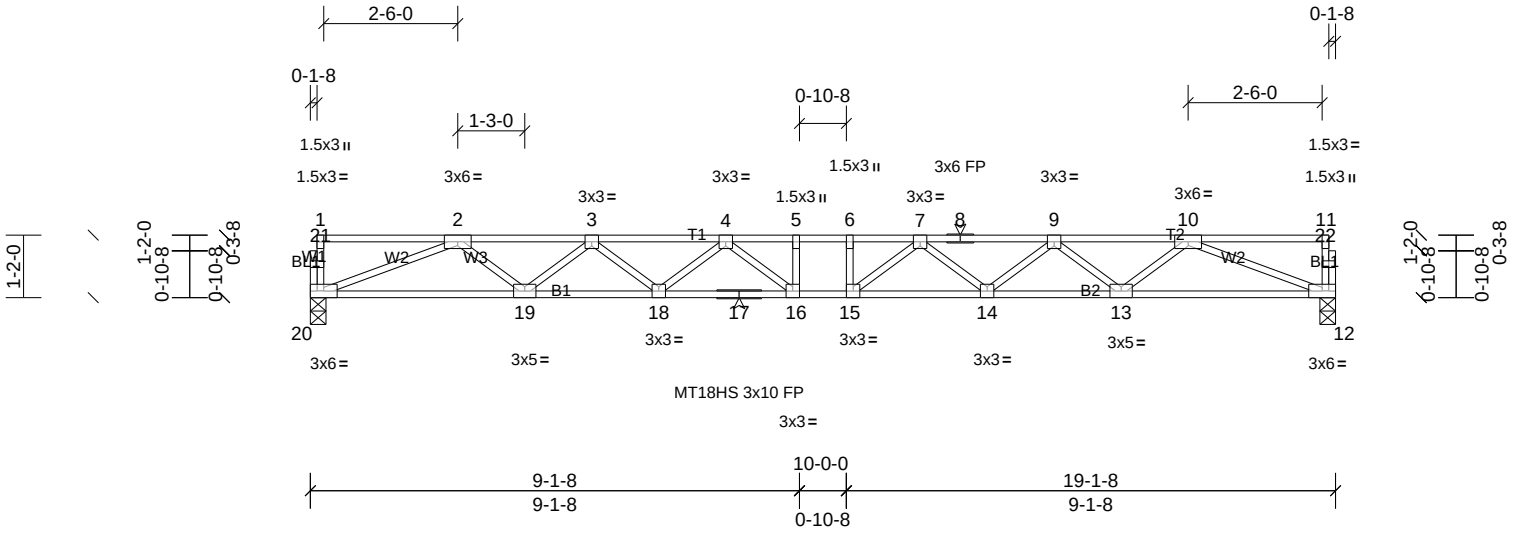
Job	Truss	Truss Type	Qty	Ply	PBS\THE RALEIGH LH FARMHOUSE FLR
72403475	2F1	Truss	8	1	Job Reference (optional)



Scale = 1:43.2

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	0.37	Vert(LL)	-0.35	15-16	>651	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.48	15-16	>474	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.08	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 95 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (lb/size) 12=1032/0-3-8, (min. 0-1-8), 20=1032/0-3-8, (min. 0-1-8)

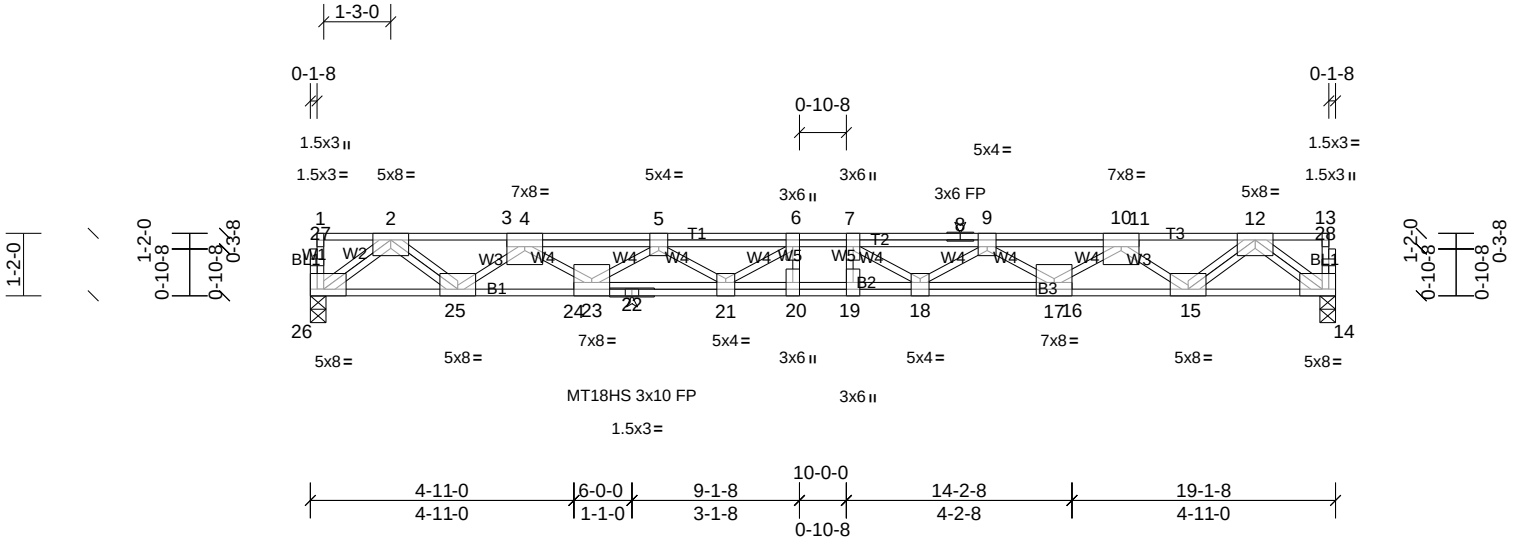
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-3042/0, 3-4=-4160/0, 4-5=-4674/0, 5-6=-4674/0, 6-7=-4674/0, 7-8=-4160/0, 8-9=-4160/0, 9-10=-3042/0
BOT CHORD	19-20=0/2290, 18-19=0/3752, 17-18=0/4541, 16-17=0/4541, 15-16=0/4674, 14-15=0/4541, 13-14=0/3752, 12-13=0/2290
WEBS	10-12=-2456/0, 2-20=-2456/0, 10-13=0/979, 2-19=0/979, 9-13=-924/0, 3-19=-924/0, 9-14=0/532, 3-18=0/532, 7-14=-496/0, 4-18=-496/0, 7-15=-201/497, 4-16=-201/497

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 3x3 MT20 unless otherwise indicated.
4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

Job	Truss	Truss Type	Qty	Ply	PBS\THE RALEIGH LH FARMHOUSE FLR
72403475	2F2	Truss	5	1	Job Reference (optional)



Scale = 1:43.2

Plate Offsets (X, Y): [5:0-2-0,Edge], [9:0-2-0,Edge], [14:Edge,0-1-8], [18:0-2-0,Edge], [19:0-3-0,Edge], [21:0-2-0,Edge], [26:Edge,0-1-8]

Loading	(psf)	Spacing	1-6-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.44	19-20	>512	480	MT18HS	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.55	19-20	>410	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 134 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (lb/size) 14=1758/0-3-8, (min. 0-1-8), 26=1758/0-3-8, (min. 0-1-8)

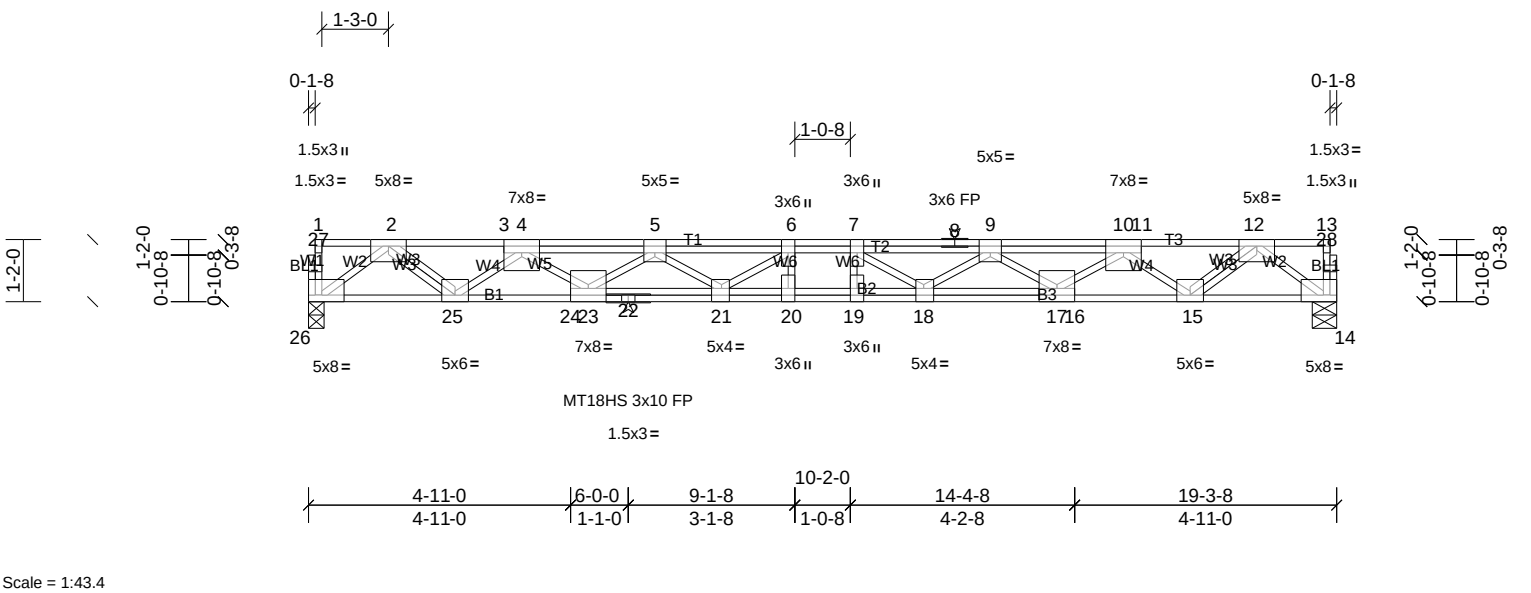
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-3721/0, 3-4=-3707/0, 4-5=-6752/0, 5-6=-8659/0, 6-7=-8979/0, 7-8=-8659/0, 8-9=-8659/0, 9-10=-6752/0, 10-11=-3707/0, 11-12=-3721/0
BOT CHORD	25-26=0/2191, 24-25=0/5510, 23-24=0/5424, 22-23=0/8078, 21-22=0/8078, 20-21=0/8979, 19-20=0/8979, 18-19=0/8979, 17-18=0/8078, 16-17=0/5424, 15-16=0/5510, 14-15=0/2191
WEBS	12-14=-2742/0, 2-26=-2742/0, 12-15=0/2024, 2-25=0/2024, 10-15=-2241/0, 4-25=-2241/0, 10-17=0/1540, 4-23=0/1540, 9-17=-1644/0, 5-23=-1644/0, 9-18=0/902, 5-21=0/902, 7-18=-922/341, 6-21=-922/341, 6-20=-368/290, 7-19=-368/290

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) The Fabrication Tolerance at joint 22 = 11%
4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

Job	Truss	Truss Type	Qty	Ply	PBS\THE RALEIGH LH FARMHOUSE FLR
72403475	2F3	Truss	3	1	Job Reference (optional)



Scale = 1:43.4

Plate Offsets (X, Y): [5:0-2-8,Edge], [9:0-2-8,Edge], [14:Edge,0-1-8], [18:0-1-12,Edge], [19:0-3-0,Edge], [21:0-1-12,Edge], [26:Edge,0-1-8]

Loading	(psf)	Spacing	1-6-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	100.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.46	19-20	>494	480	MT18HS	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.58	19-20	>395	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.11	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 131 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (lb/size) 14=1774/0-5-8, (min. 0-1-8), 26=1774/0-3-8, (min. 0-1-8)

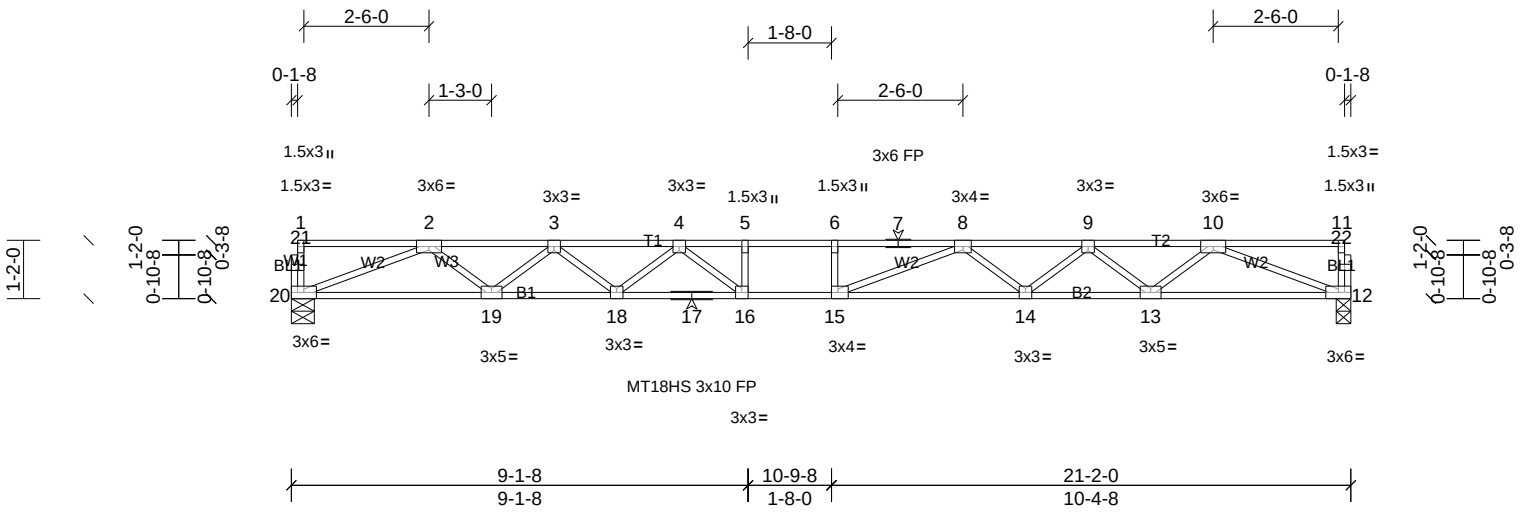
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-3758/0, 3-4=-3743/0, 4-5=-6836/0, 5-6=-8787/0, 6-7=-9130/0, 7-8=-8787/0, 8-9=-8787/0, 9-10=-6836/0, 10-11=-3743/0, 11-12=-3758/0
BOT CHORD	25-26=0/2280, 24-25=0/5568, 23-24=0/5482, 22-23=0/8185, 21-22=0/8185, 20-21=0/9130, 19-20=0/9130, 18-19=0/9130, 17-18=0/8185, 16-17=0/5482, 15-16=0/5568, 14-15=0/2280
WEBS	12-14=-2815/0, 2-26=-2815/0, 12-15=0/1994, 2-25=0/1994, 10-15=-2268/0, 4-25=-2268/0, 10-17=0/1572, 4-23=0/1572, 9-17=-1673/0, 5-23=-1673/0, 9-18=0/933, 5-21=0/933, 7-18=-975/339, 6-21=-975/339, 6-20=-371/294, 7-19=-371/294

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) The Fabrication Tolerance at joint 22 = 11%
4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

Job	Truss	Truss Type	Qty	Ply	PBS\THE RALEIGH LH FARMHOUSE FLR
72403475	2F4	Truss	4	1	Job Reference (optional)



Scale = 1:46.2

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	-0.43	14-15	>580	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.60	14-15	>419	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.09	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 103 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (lb/size) 12=915/0-3-8, (min. 0-1-8), 20=915/0-5-8, (min. 0-1-8)

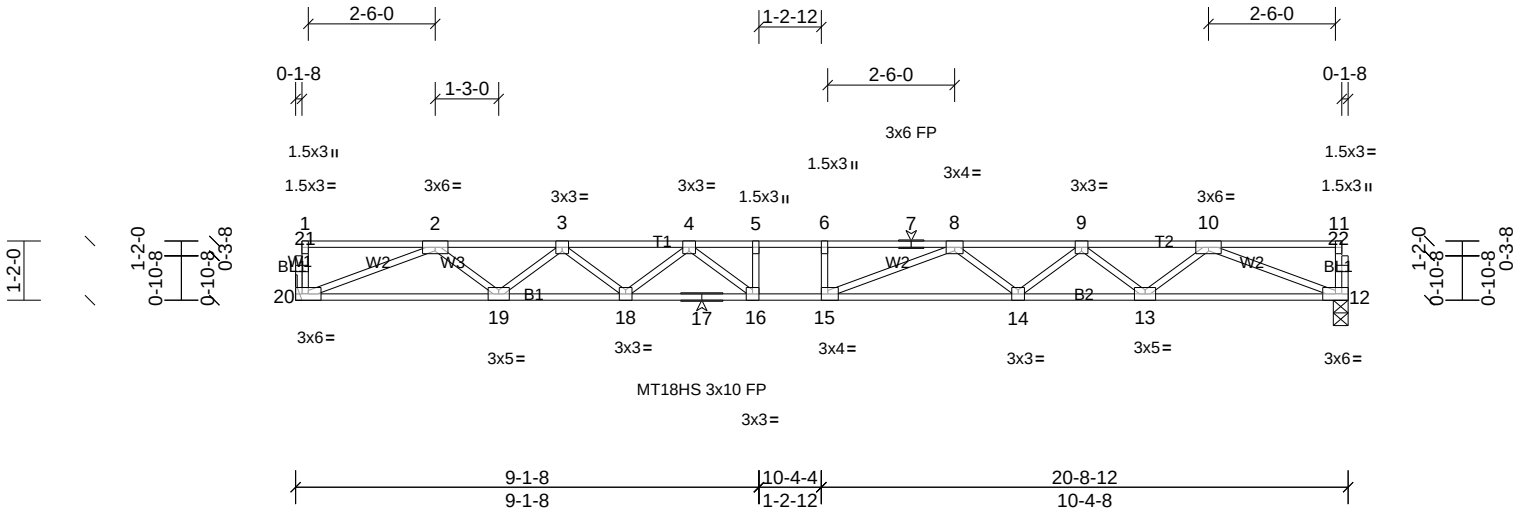
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2766/0, 3-4=-3863/0, 4-5=-4576/0, 5-6=-4576/0, 6-7=-4576/0, 7-8=-4576/0, 8-9=-3892/0, 9-10=-2759/0
BOT CHORD	19-20=0/2055, 18-19=0/3438, 17-18=0/4286, 16-17=0/4286, 15-16=0/4576, 14-15=0/4302, 13-14=0/3438, 12-13=0/2055
WEBS	10-12=-2205/0, 2-20=-2206/0, 10-13=0/917, 2-19=0/925, 9-13=-883/0, 3-19=-875/0, 9-14=0/592, 3-18=0/553, 8-14=-533/0, 4-18=-552/0, 8-15=-136/673, 4-16=-77/672, 5-16=-284/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

Job	Truss	Truss Type	Qty	Ply	PBS\THE RALEIGH LH FARMHOUSE FLR
72403475	2F4B	Truss	8	1	Job Reference (optional)



Scale = 1:45.6

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.39	14-15	>624	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.55	14-15	>449	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.08	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 102 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (lb/size) 12=895/0-3-8, (min. 0-1-8), 20=896/ Mechanical, (min. 0-1-8)

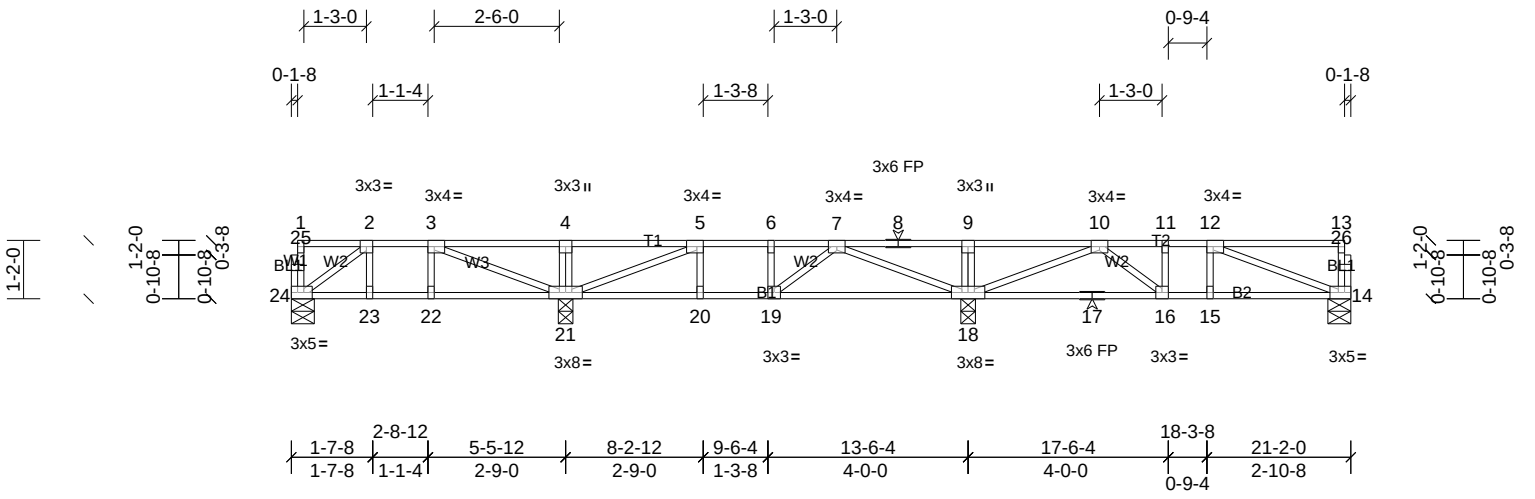
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2694/0, 3-4=-3747/0, 4-5=-4395/0, 5-6=-4395/0, 6-7=-4395/0, 7-8=-4395/0, 8-9=-3773/0, 9-10=-2689/0
BOT CHORD	19-20=0/2007, 18-19=0/3344, 17-18=0/4147, 16-17=0/4147, 15-16=0/4395, 14-15=0/4162, 13-14=0/3343, 12-13=0/2007
WEBS	10-12=-2154/0, 2-20=-2154/0, 10-13=0/888, 2-19=0/895, 9-13=-852/0, 3-19=-845/0, 9-14=0/560, 3-18=0/525, 8-14=-505/0, 4-18=-520/0, 8-15=-159/602, 4-16=-98/594

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

Job	Truss	Truss Type	Qty	Ply	PBS\THE RALEIGH LH FARMHOUSE FLR
72403475	2F5	Truss	1	1	Job Reference (optional)



Scale = 1:46.2

Plate Offsets (X, Y): [3:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [14:0-2-0,Edge], [24:0-2-0,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.03	18-19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.21	Vert(CT)	-0.04	18-19	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 108 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS All bearings 0-5-8. except 21=0-3-8, 18=0-3-8
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 24 except 14=290 (LC 13), 18=774 (LC 11), 21=636 (LC 16)

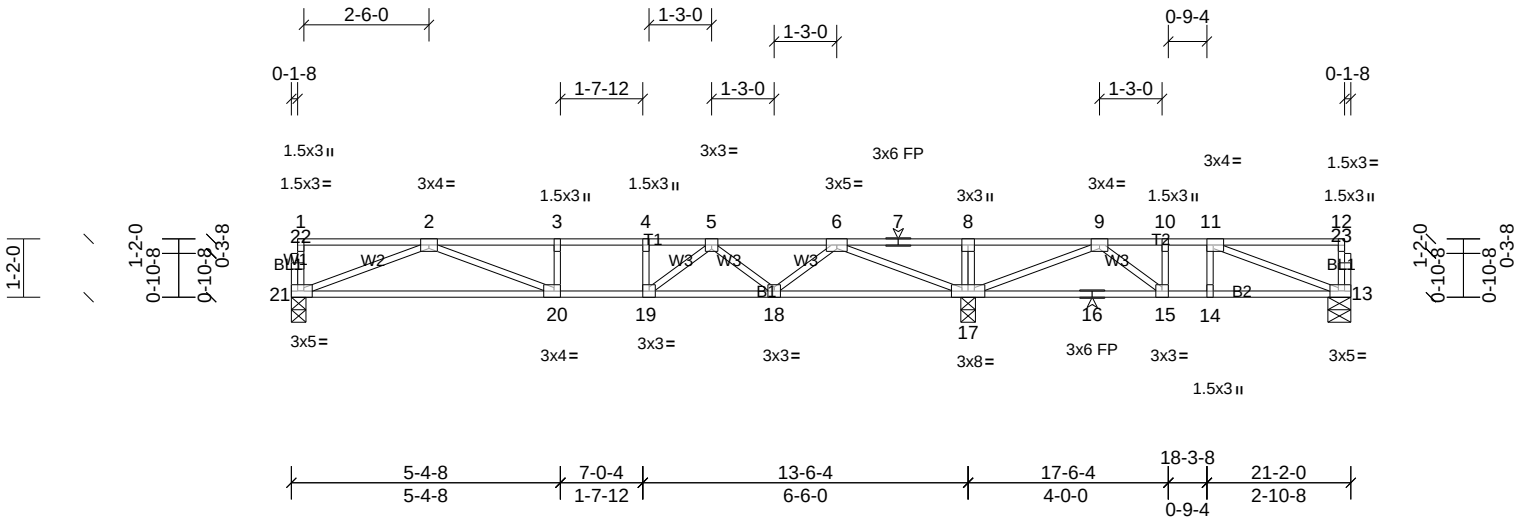
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	3-4=0/263, 4-5=0/263, 5-6=-435/60, 6-7=-435/60, 7-8=0/461, 8-9=0/461, 9-10=0/461, 10-11=-486/0, 11-12=-486/0
BOT CHORD	20-21=-60/435, 19-20=-60/435, 18-19=-102/361, 17-18=-93/403, 16-17=-93/403, 15-16=0/486, 14-15=0/486
WEBS	3-21=-450/0, 2-24=-269/0, 7-18=-683/0, 5-21=-612/0, 10-18=-735/0, 12-14=-516/0, 10-16=0/255

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 1.5x3 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

Job	Truss	Truss Type	Qty	Ply	PBS\THE RALEIGH LH FARMHOUSE FLR
72403475	2F6	Truss	1	1	Job Reference (optional)



Scale = 1:46.2

Plate Offsets (X, Y): [11:0-1-8,Edge], [13:0-2-0,Edge], [20:0-1-8,Edge], [21:0-2-0,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	0.69	Vert(LL)	-0.13	20-21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.23	20-21	>702	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 105 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (lb/size) 13=241/0-5-8, (min. 0-1-8), 17=1411/0-3-8, (min. 0-1-8), 21=637/0-3-8, (min. 0-1-8)
Max Uplift 13=-40 (LC 3)
Max Grav 13=349 (LC 4), 17=1411 (LC 1), 21=648 (LC 10)

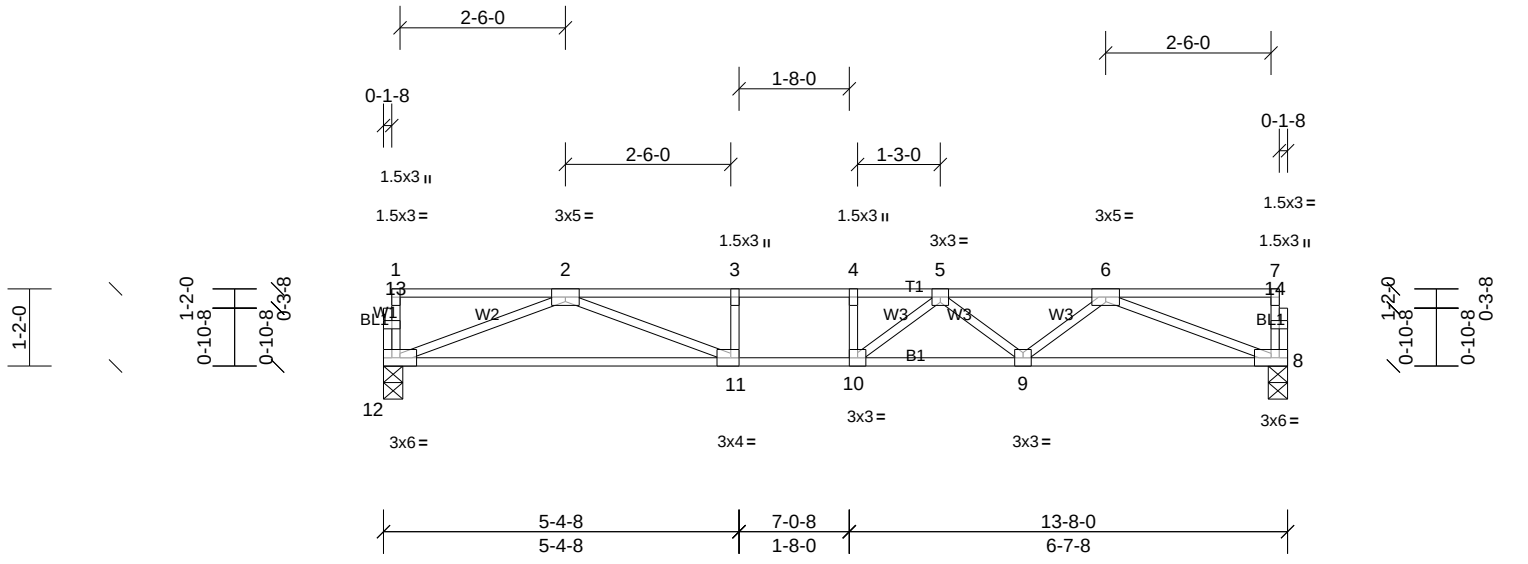
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-1856/0, 3-4=-1856/0, 4-5=-1856/0, 5-6=-1159/0, 6-7=0/1171, 7-8=0/1171, 8-9=0/1171, 9-10=-570/241, 10-11=-570/241
BOT CHORD	20-21=0/1324, 19-20=0/1856, 18-19=0/1607, 17-18=0/680, 16-17=-531/444, 15-16=-531/444, 14-15=-241/570, 13-14=-241/570
WEBS	8-17=-293/0, 9-17=-1134/0, 11-13=-604/261, 9-15=0/514, 6-17=-1817/0, 2-21=-1418/0, 6-18=0/647, 2-20=0/584, 5-18=-618/0, 5-19=0/505

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 1.5x3 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 13.
4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

Job	Truss	Truss Type	Qty	Ply	PBS\THE RALEIGH LH FARMHOUSE FLR
72403475	2F7	Truss	2	1	Job Reference (optional)



Scale = 1:35

Plate Offsets (X, Y): [11:0-1-8,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	0.56	Vert(LL)	-0.17	9-10	>936	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.22	9-10	>729	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.04	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 67 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (lb/size) 8=732/0-3-8, (min. 0-1-8), 12=732/0-3-8, (min. 0-1-8)

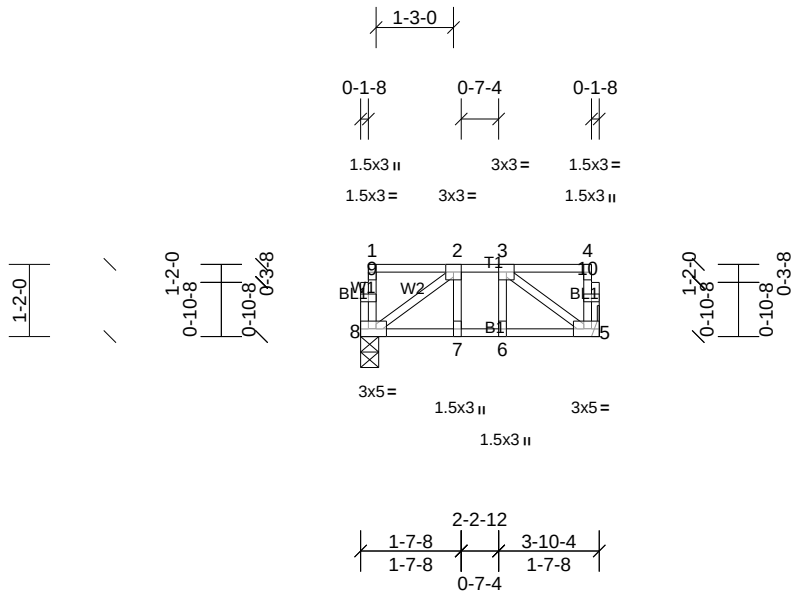
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-2331/0, 3-4=-2331/0, 4-5=-2331/0, 5-6=-1933/0
BOT CHORD	11-12=0/1536, 10-11=0/2331, 9-10=0/2260, 8-9=0/1547
WEBS	6-8=-1657/0, 2-12=-1645/0, 6-9=0/502, 2-11=0/911, 5-9=-426/0, 5-10=-144/387, 3-11=-254/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

Job	Truss	Truss Type	Qty	Ply	PBS\THE RALEIGH LH FARMHOUSE FLR
72403475	2F8	Truss	2	1	Job Reference (optional)



Scale = 1:37.4

Plate Offsets (X, Y): [5:0-2-0,Edge], [8:0-2-0,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	0.12	Vert(LL)	0.00	7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(CT)	0.00	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 23 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

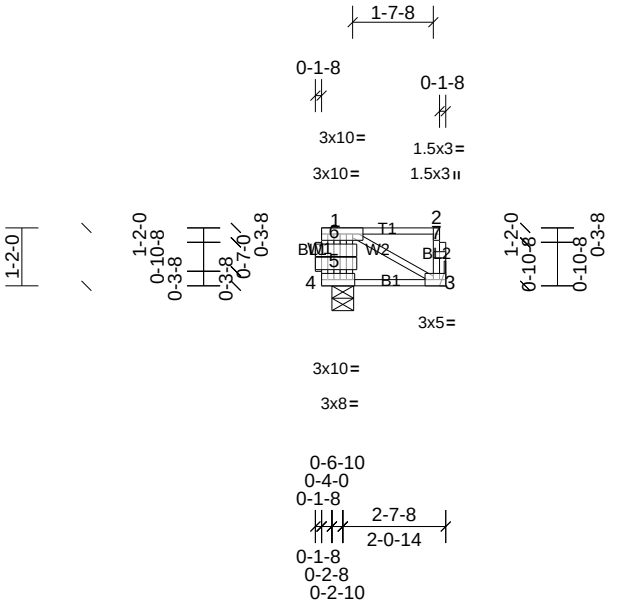
REACTIONS (lb/size) 5=192/ Mechanical, (min. 0-1-8), 8=192/0-3-8, (min. 0-1-8)

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

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

Job	Truss	Truss Type	Qty	Ply	PBS\THE RALEIGH LH FARMHOUSE FLR
72403475	2F9	Truss	8	1	Job Reference (optional)



Scale = 1:46.6

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

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	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	0.00	3-4	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-7-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=174/ Mechanical, (min. 0-1-8), 4=549/0-5-4, (min. 0-1-8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-498/0, 5-6=-538/0, 1-6=-553/0

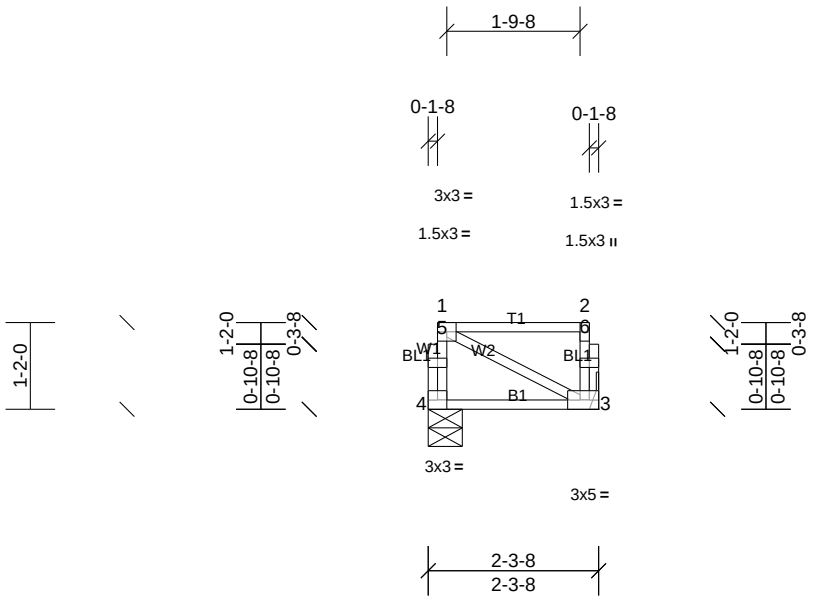
NOTES

1) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 3-4=-10, 1-2=-100
Concentrated Loads (lb)
Vert: 1=-500

Job	Truss	Truss Type	Qty	Ply	PBS\THE RALEIGH LH FARMHOUSE FLR
72403475	2F10	Truss	3	1	Job Reference (optional)



Scale = 1:31.1

Plate Offsets (X, Y): [3:0-2-0,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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.04	Vert(CT)	0.00	3-4	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

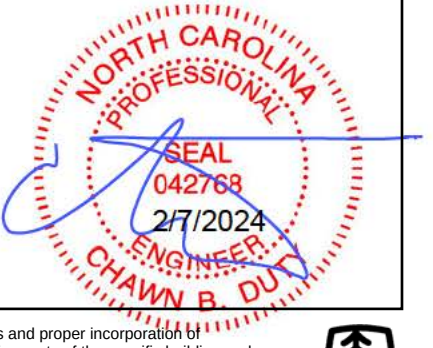
TOP CHORD	Structural wood sheathing directly applied or 2-3-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=106/ Mechanical, (min. 0-1-8), 4=106/0-5-8, (min. 0-1-8)

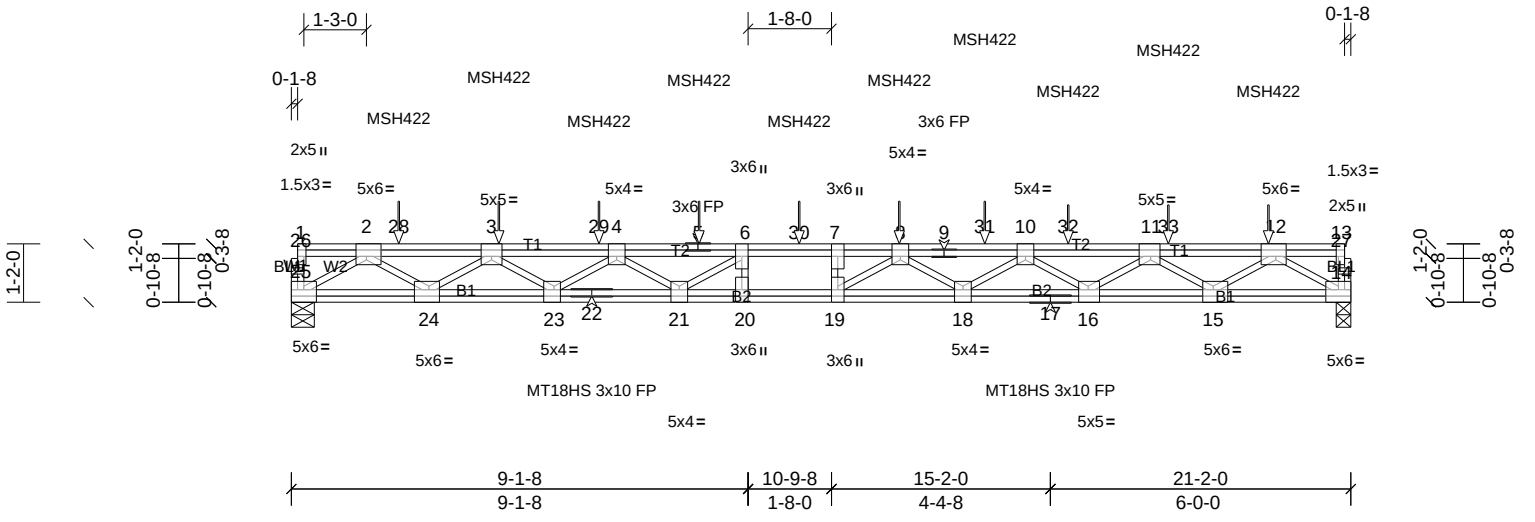
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

1) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/ TPI 1.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.



Job	Truss	Truss Type	Qty	Ply	PBS\THE RALEIGH LH FARMHOUSE FLR
72403475	2FG1	Truss	1	1	Job Reference (optional)



Scale = 1:46.2

Plate Offsets (X, Y): [2:0-2-8,Edge], [3:0-2-8,Edge], [4:0-2-0,Edge], [7:0-3-0,Edge], [8:0-2-0,Edge], [10:0-2-0,Edge], [11:0-2-4,Edge], [12:0-2-8,Edge], [13:0-3-0,Edge], [14:Edge,0-3-0], [15:0-2-8,Edge], [16:0-2-4,Edge], [18:0-2-0,Edge], [21:0-2-0,Edge], [23:0-1-8,Edge], [24:0-2-8,Edge], [25:0-3-0,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.38	18-19	>655	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.52	18-19	>476	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.05	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 163 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (lb/size) 14=1146/0-3-8, (min. 0-1-8), 25=1247/0-5-8, (min. 0-1-8)
Max Grav 14=1320 (LC 4), 25=1373 (LC 3)

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

TOP CHORD	2-28=-3362/0, 3-28=-3362/0, 3-29=-5686/0, 4-29=-5686/0, 4-5=-6953/0, 5-6=-6953/0, 6-30=-7439/0, 7-30=-7439/0, 7-8=-7439/0, 8-9=-7119/0, 9-31=-7119/0, 10-31=-7119/0, 10-32=-5606/0, 11-32=-5606/0, 11-33=-3221/0, 12-33=-3221/0
BOT CHORD	24-25=0/2063, 23-24=0/4781, 22-23=0/6581, 21-22=0/6581, 20-21=0/7439, 19-20=0/7439, 18-19=0/7563, 17-18=0/6603, 16-17=0/6603, 15-16=0/4603, 14-15=0/1947
WEBS	12-14=-2270/0, 2-25=-2406/0, 12-15=0/1583, 2-24=0/1615, 11-15=-1714/0, 3-24=-1759/0, 11-16=0/1243, 3-23=0/1155, 10-16=-1237/0, 4-23=-1121/0, 10-18=0/771, 4-21=0/805, 8-18=-778/0, 6-21=-930/0, 8-19=-151/469

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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) Use MiTek MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-1-12 from the left end to 19-6-4 to connect truss(es) to back face of top chord.
6) Fill all nail holes where hanger is in contact with lumber.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 14-25=-7, 1-13=-67
Concentrated Loads (lb)
Vert: 5=-107 (B), 12=-39 (B), 3=-107 (B), 8=-107 (B), 28=-107 (B), 29=-107 (B), 30=-107 (B), 31=-107 (B), 32=-39 (B), 33=-39 (B)