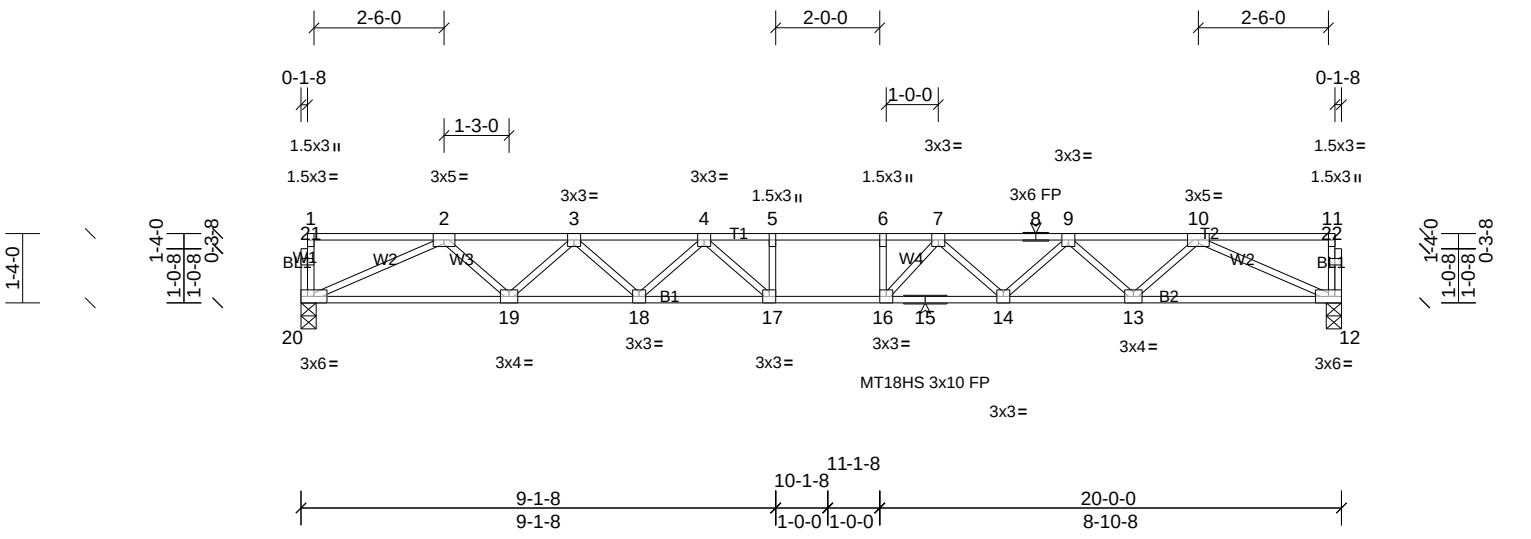
Job	Truss	Truss Type	Qty	Ply	PBS\SMITHFIELD FC RH 2ND FL OW
72314061	F200	Truss	2	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue Apr 11 16:23:15 — Page: 1

ID:qMPgz1xPQuFsrTwhwcX5tGztSco-7ErzfiqtqOTck1q94GEoM?XoQFN2Vm54lKa6jjzRlPA



Scale = 1:44.5

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.29	16-17	>803	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.41	16-17	>584	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 101 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

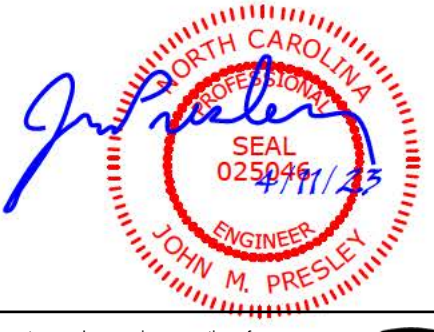
REACTIONS (lb/size) 12=863/0-3-8, (min. 0-1-8), 20=863/0-3-8, (min. 0-1-8)

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

TOP CHORD	2-3=-2224/0, 3-4=-3073/0, 4-5=-3515/0, 5-6=-3515/0, 6-7=-3515/0, 7-8=-3070/0, 8-9=-3070/0, 9-10=-2224/0
BOT CHORD	19-20=0/1665, 18-19=0/2752, 17-18=0/3373, 16-17=0/3515, 15-16=0/3375, 14-15=0/3375, 13-14=0/2752, 12-13=0/1666
WEBS	6-16=-275/25, 2-20=-1829/0, 2-19=0/776, 3-19=-735/0, 3-18=0/447, 4-18=-417/0, 4-17=-122/493, 10-12=-1829/0, 10-13=0/777, 9-13=-733/0, 9-14=0/443, 7-14=-427/0, 7-16=-118/511

NOTES

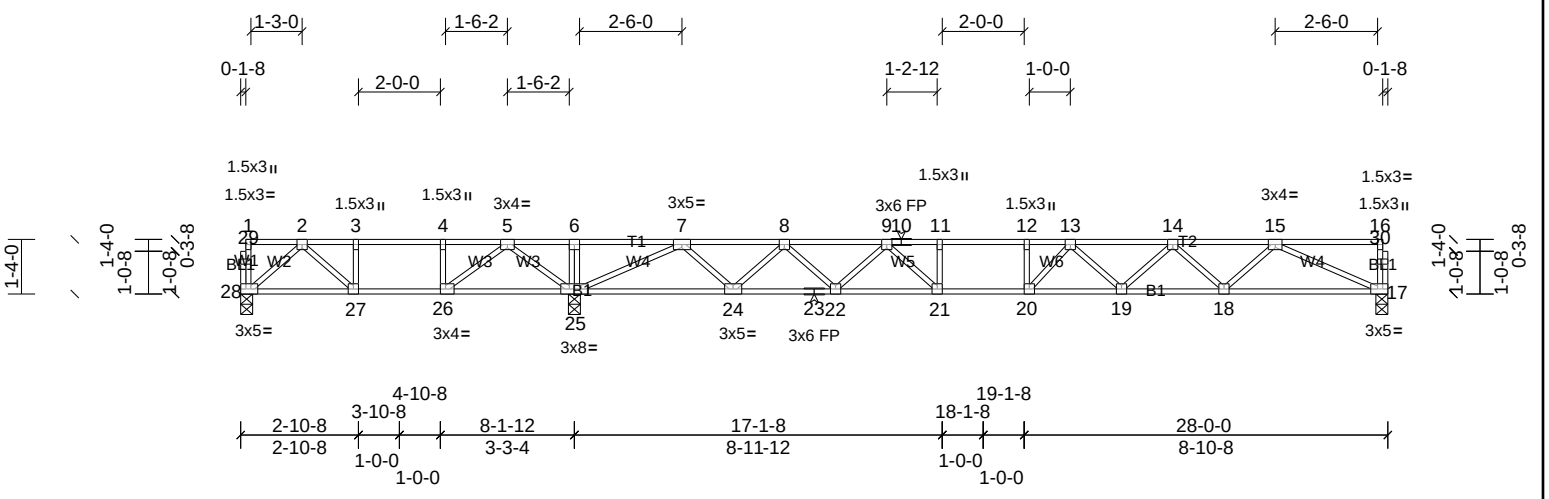
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x3 MT20 unless otherwise indicated.
4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and 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\SMITHFIELD FC RH 2ND FL OW
72314061	F201	Truss	7	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue Apr 11 16:23:15 — Page: 1

ID:IYy2ANy1BCNjSdVtTK2KQTztScn-7ErzfiqtqOTck1q94GEoM?XkpFMkVlc4lKa6jjzRlPA



Scale = 1:56.5

Plate Offsets (X, Y): [17:0-2-0,Edge], [26:0-1-8,Edge], [28:0-2-0,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	0.87	Vert(LL)	-0.26	20	>902	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.36	19-20	>657	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.05	17	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 141 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(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 5-8-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 27-28,26-27,25-26.

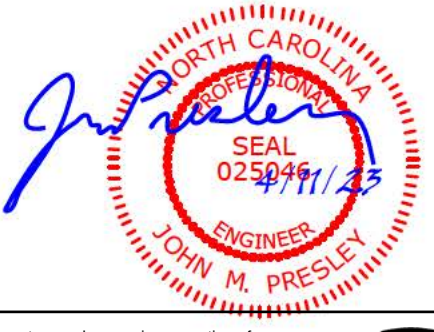
REACTIONS (lb/size) 17=784/0-3-8, (min. 0-1-8), 25=1487/0-3-8, (min. 0-1-8), 28=160/0-3-8, (min. 0-1-8)
Max Uplift 28=-77 (LC 4)
Max Grav 17=794 (LC 7), 25=1487 (LC 1), 28=281 (LC 3)

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

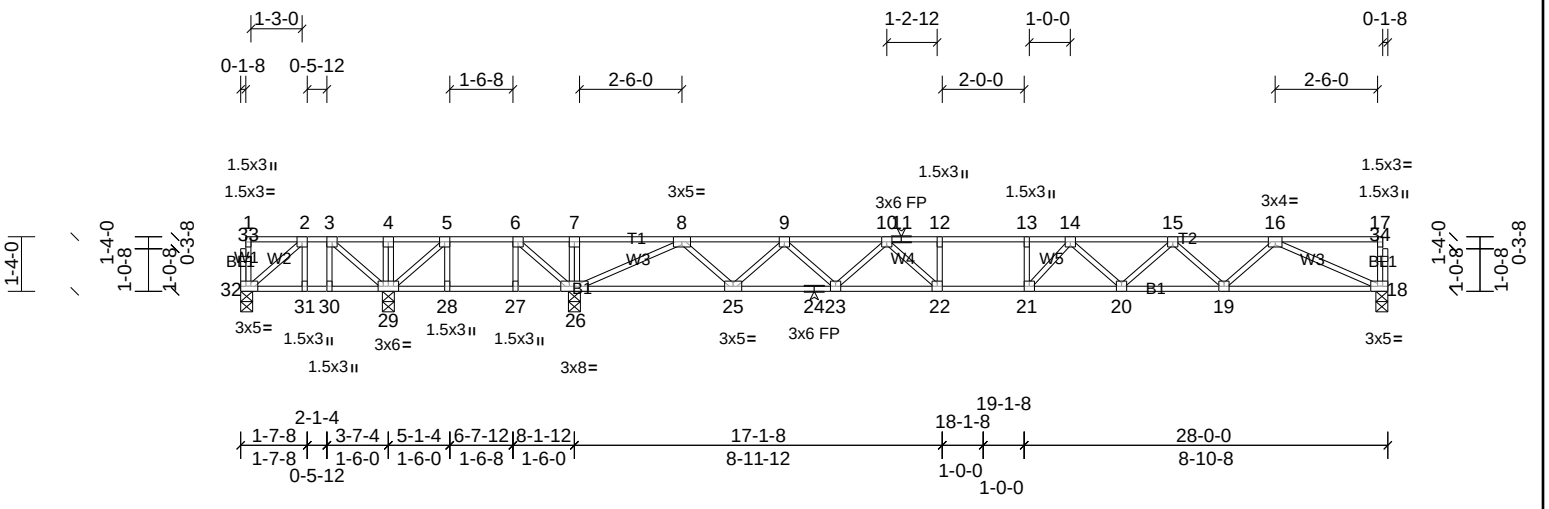
TOP CHORD	2-3=-356/382, 3-4=-356/382, 4-5=-356/382, 5-6=0/1292, 6-7=0/1297, 7-8=-1323/0, 8-9=-2304/0, 9-10=-2954/0, 10-11=-2954/0, 11-12=-2954/0, 12-13=-2954/0, 13-14=-2713/0, 14-15=-2000/0
BOT CHORD	27-28=-117/258, 26-27=-382/356, 25-26=-811/38, 24-25=0/686, 23-24=0/1923, 22-23=0/1923, 21-22=0/2685, 20-21=0/2954, 19-20=0/2932, 18-19=0/2459, 17-18=0/1515
WEBS	4-26=-339/0, 11-21=-289/0, 2-28=-341/155, 2-27=-360/133, 5-25=-748/0, 5-26=0/737, 7-25=-1956/0, 7-24=0/906, 8-24=-857/0, 8-22=0/549, 9-22=-554/0, 9-21=0/609, 15-17=-1663/0, 15-18=0/675, 14-18=-638/0, 14-19=0/353, 13-19=-307/0, 13-20=-235/334

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 28.
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\SMITHFIELD FC RH 2ND FL OW
72314061	F202	Truss	2	1	Job Reference (optional)



Scale = 1:56.5

Plate Offsets (X, Y): [18:0-2-0,Edge], [32:0-2-0,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	0.80	Vert(LL)	-0.25	20-21	>927	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.35	20-21	>673	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.04	18	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 147 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(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 5-6-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS All bearings 0-3-8.

(lb) - Max Uplift All uplift 100 (lb) or less at joint(s) except 32=-332 (LC 4)

Max Grav All reactions 250 (lb) or less at joint(s) 32 except 18=768 (LC 13), 26=1294 (LC 14), 29=609 (LC 13)

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

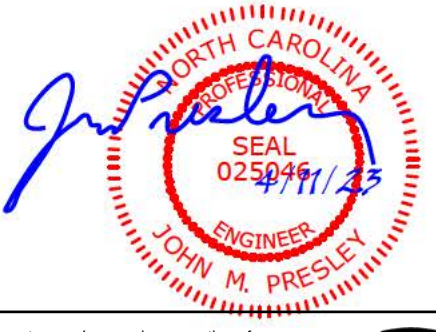
TOP CHORD 2-3=0/504, 3-4=0/1082, 4-5=0/1082, 5-6=0/1245, 6-7=0/1540, 7-8=0/1544, 8-9=-972/0, 9-10=-2006/0, 10-11=-2738/0, 11-12=-2738/0, 12-13=-2738/0, 13-14=-2738/0, 14-15=-2575/0, 15-16=-1914/0

BOT CHORD 31-32=-504/0, 30-31=-504/0, 29-30=-504/0, 28-29=-1245/0, 27-28=-1245/0, 26-27=-1245/0, 25-26=0/314, 24-25=0/1598, 23-24=0/1598, 22-23=0/2419, 21-22=0/2738, 20-21=0/2761, 19-20=0/2346, 18-19=0/1457

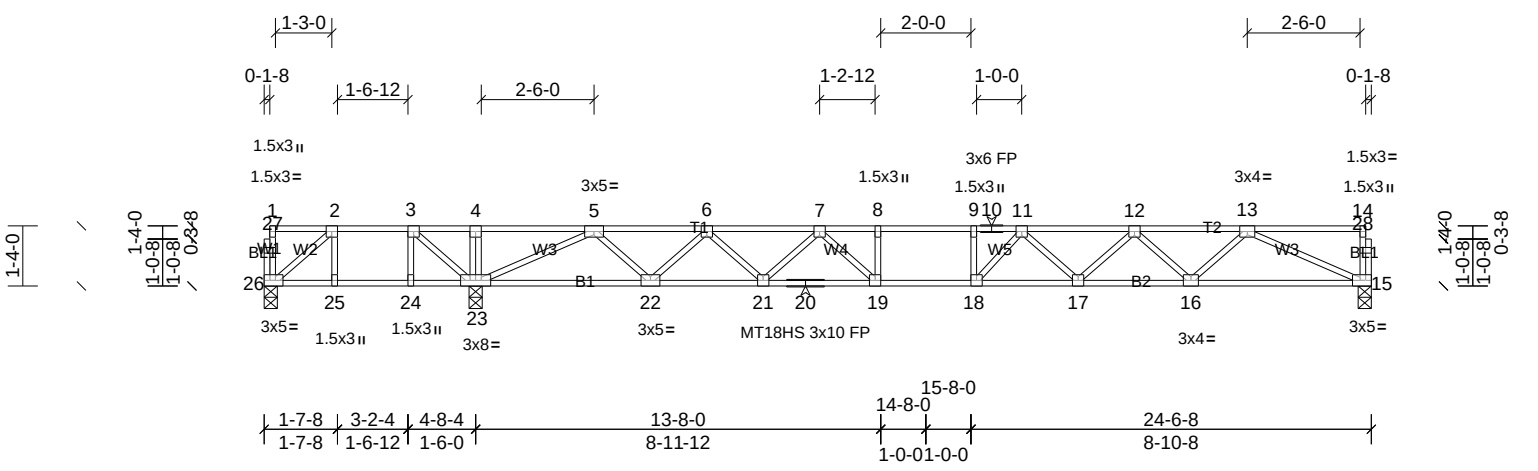
WEBS 12-22=-296/0, 5-29=-135/272, 6-26=-505/0, 3-29=-845/0, 2-32=0/661, 3-30=0/260, 8-26=-2002/0, 8-25=0/921, 9-25=-876/0, 9-23=0/571, 10-23=-579/0, 10-22=0/626, 16-18=-1599/0, 16-19=0/636, 15-19=-601/0, 15-20=0/319, 14-20=-280/0, 14-21=-252/294

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 331 lb uplift at joint 32.
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\SMITHFIELD FC RH 2ND FL OW
72314061	F203	Truss	1	1	Job Reference (optional)



Scale = 1:51.3

Plate Offsets (X, Y): [15:0-2-0,Edge], [26:0-2-0,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	0.89	Vert(LL)	-0.26	18	>892	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.37	17-18	>648	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.06	15	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 126 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(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 2-2-0 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.

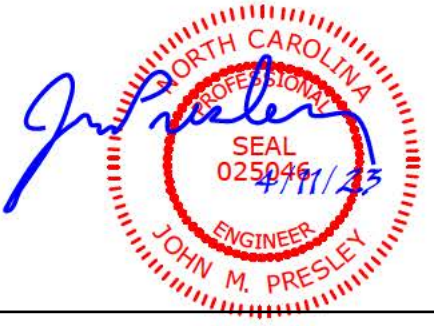
REACTIONS (lb/size) 15=804/0-3-8, (min. 0-1-8), 23=1370/0-3-8, (min. 0-1-8), 26=-48/0-3-8, (min. 0-1-8)
Max Uplift 26=-188 (LC 4)
Max Grav 15=807 (LC 7), 23=1370 (LC 1), 26=128 (LC 3)

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

TOP CHORD	2-3=-50/409, 3-4=0/949, 4-5=0/951, 5-6=-1494/0, 6-7=-2448/0, 7-8=-3058/0, 8-9=-3058/0, 9-10=-3058/0, 10-11=-3058/0, 11-12=-2779/0, 12-13=-2042/0
BOT CHORD	25-26=-409/50, 24-25=-409/50, 23-24=-409/50, 22-23=0/875, 21-22=0/2078, 20-21=0/2814, 19-20=0/2814, 18-19=0/3058, 17-18=0/3014, 16-17=0/2513, 15-16=0/1543
WEBS	8-19=-273/0, 3-23=-811/0, 2-26=-62/540, 5-23=-1930/0, 5-22=0/868, 6-22=-821/0, 6-21=0/522, 7-21=-518/0, 7-19=0/572, 13-15=-1694/0, 13-16=0/694, 12-16=-655/0, 12-17=0/370, 11-17=-339/0, 11-18=-199/380

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 26.
5) 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.
6) 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.
7) CAUTION, Do not erect truss backwards.



Job	Truss	Truss Type	Qty	Ply	PBS\SMITHFIELD FC RH 2ND FL OW
72314061	F204	Truss	3	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Tue Apr 11 16:23:17 — Page: 1

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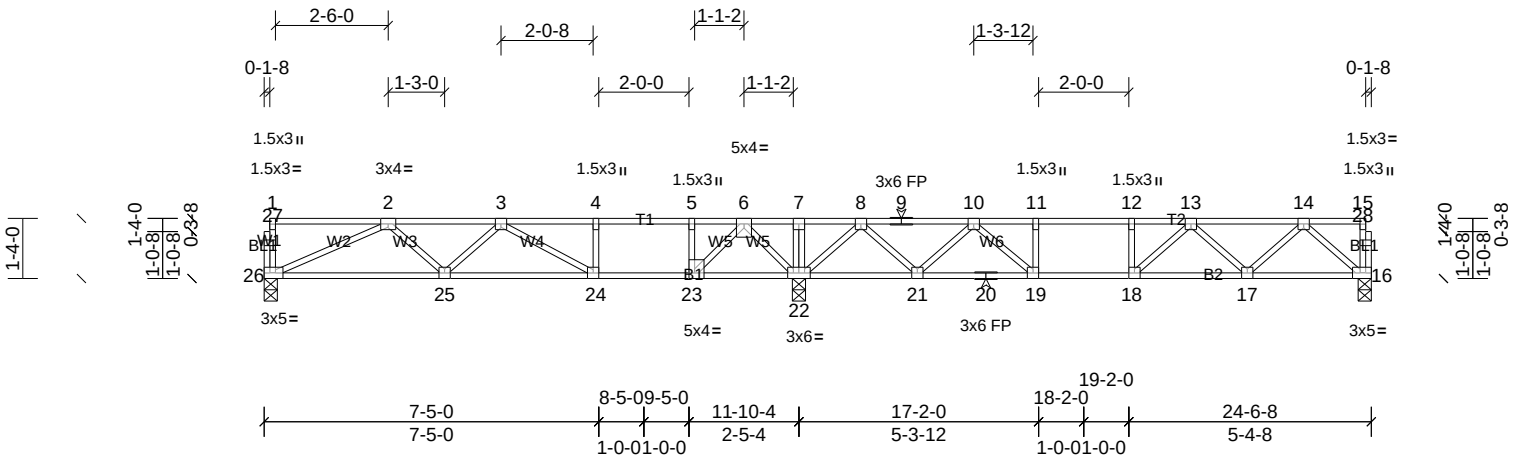


Scale = 1:51.3

Plate Offsets (X, Y): [16:0-2-0,Edge], [23:0-1-8,Edge], [26:0-2-0,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	0.89	Vert(LL)	-0.20	24-25	>696	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.28	24-25	>507	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	16	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 125 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.1(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 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (lb/size) 16=537/0-3-8, (min. 0-1-8), 22=1089/0-3-8, (min. 0-1-8), 26=500/0-3-8, (min. 0-1-8)

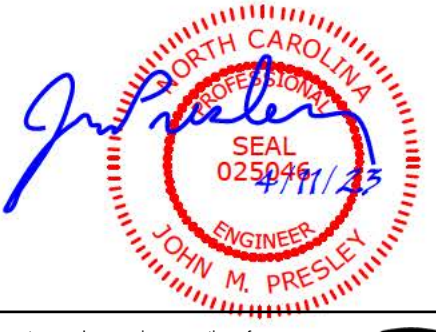
Max Grav 16=544 (LC 7), 22=1089 (LC 1), 26=528 (LC 10)

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

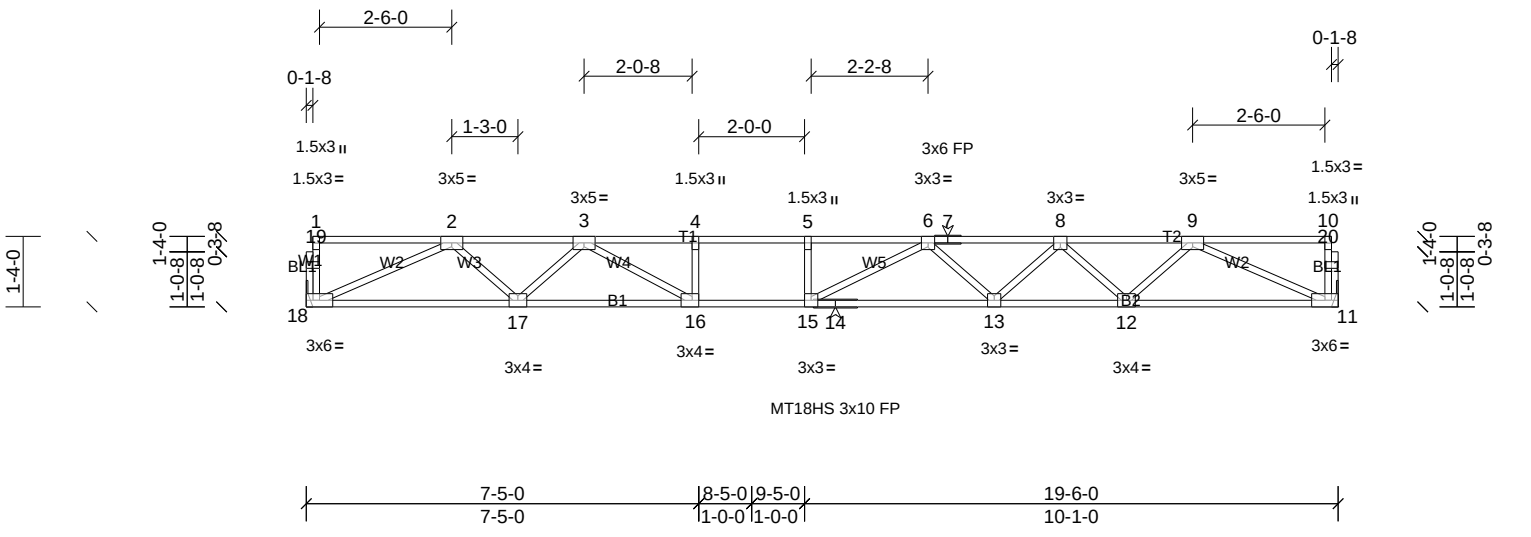
TOP CHORD	2-3=-1174/0, 3-4=-1150/0, 4-5=-1150/0, 5-6=-1150/0, 6-7=-169/344, 7-8=-169/344, 8-9=-901/0, 9-10=-901/0, 10-11=-1391/0, 11-12=-1391/0, 12-13=-1391/0, 13-14=-919/0
BOT CHORD	25-26=0/947, 24-25=0/1335, 23-24=0/1150, 22-23=-137/617, 21-22=0/544, 20-21=0/1222, 19-20=0/1222, 18-19=0/1391, 17-18=0/1233, 16-17=0/580
WEBS	5-23=-471/0, 6-22=-679/0, 6-23=0/872, 14-16=-770/0, 14-17=0/471, 13-17=-437/0, 13-18=0/328, 2-26=-1038/0, 2-25=0/316, 3-24=-321/0, 8-22=-810/0, 8-21=0/525, 10-21=-498/0, 10-19=0/325

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 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\SMITHFIELD FC RH 2ND FL OW
72314061	F205	Truss	3	1	Job Reference (optional)



Scale = 1:43.7

Plate Offsets (X, Y): [16:0-1-8,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	0.73	Vert(LL)	-0.33	13-15	>709	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.45	13-15	>513	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 97 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.1(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.

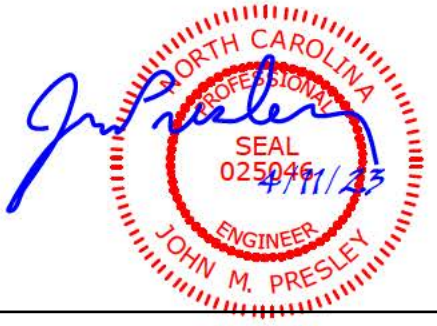
REACTIONS (lb/size) 11=841/ Mechanical, (min. 0-1-8), 18=841/ Mechanical, (min. 0-1-8)

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

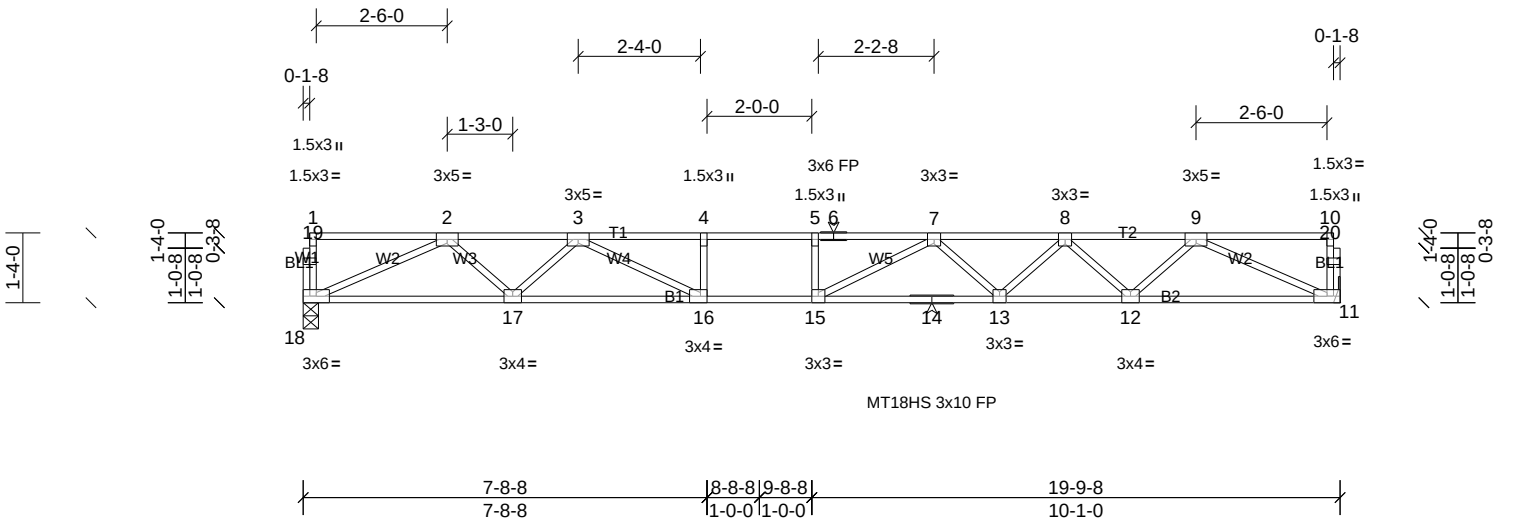
TOP CHORD	2-3=-2137/0, 3-4=-3282/0, 4-5=-3282/0, 5-6=-3282/0, 6-7=-2981/0, 7-8=-2981/0, 8-9=-2148/0
BOT CHORD	17-18=0/1616, 16-17=0/2648, 15-16=0/3282, 14-15=0/3249, 13-14=0/3249, 12-13=0/2660, 11-12=0/1617
WEBS	4-16=-288/0, 2-18=-1775/0, 2-17=0/724, 3-17=-711/0, 3-16=0/884, 9-11=-1775/0, 9-12=0/739, 8-12=-712/0, 8-13=0/448, 6-13=-372/0, 6-15=-241/426

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\SMITHFIELD FC RH 2ND FL OW
72314061	F206	Truss	4	1	Job Reference (optional)



MT18HS 3x10 FP

Scale = 1:44.2

Plate Offsets (X, Y): [16:0-1-8,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	0.93	Vert(LL)	-0.36	13-15	>657	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.49	13-15	>478	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 98 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(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 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

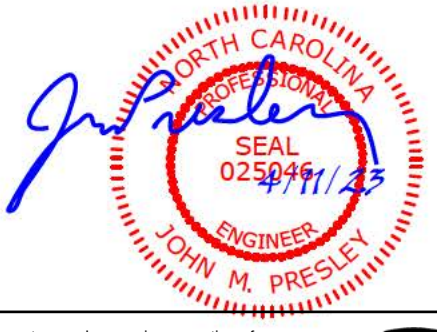
REACTIONS (lb/size) 11=854/ Mechanical, (min. 0-1-8), 18=854/0-3-8, (min. 0-1-8)

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

TOP CHORD	2-3=-2182/0, 3-4=-3397/0, 4-5=-3397/0, 5-6=-3397/0, 6-7=-3397/0, 7-8=-3048/0, 8-9=-2189/0
BOT CHORD	17-18=0/1644, 16-17=0/2706, 15-16=0/3397, 14-15=0/3328, 13-14=0/3328, 12-13=0/2714, 11-12=0/1645
WEBS	4-16=-262/0, 2-18=-1805/0, 2-17=0/748, 3-17=-729/0, 3-16=0/927, 9-11=-1806/0, 9-12=0/757, 8-12=-730/0, 8-13=0/464, 7-13=-390/0, 7-15=-220/461

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\SMITHFIELD FC RH 2ND FL OW
72314061	F207	Truss	3	1	Job Reference (optional)

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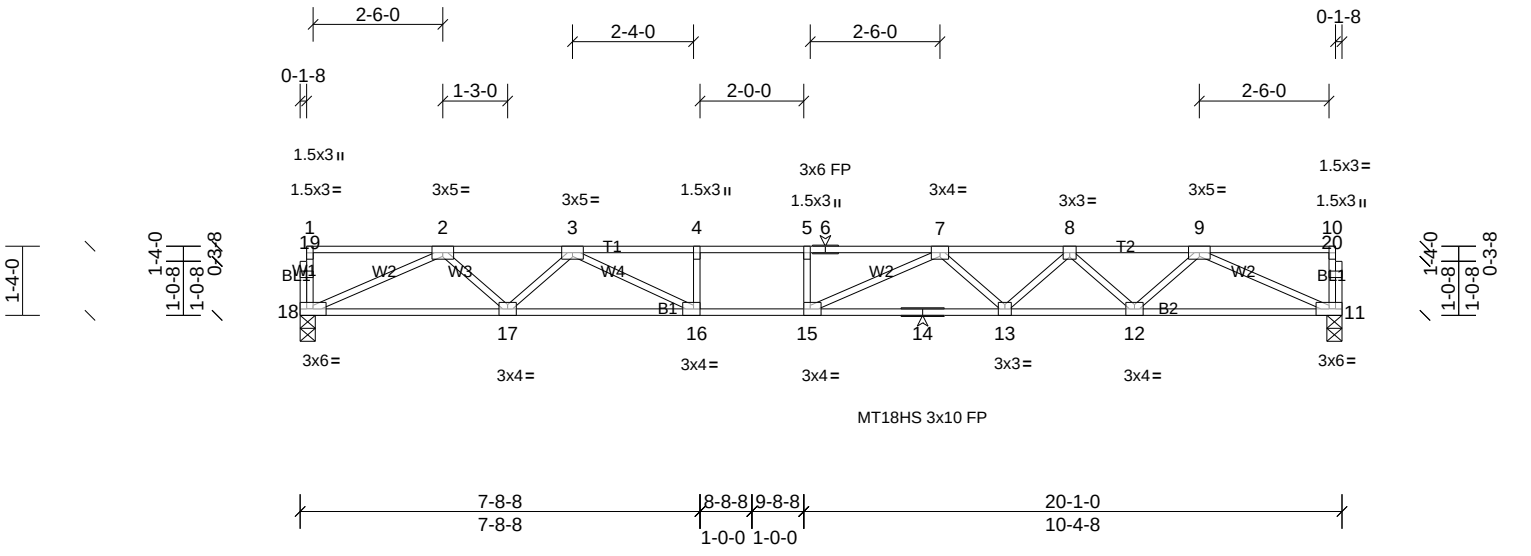


Scale = 1:44.6

Plate Offsets (X, Y): [15:0-1-8,Edge], [16:0-1-8,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	0.77	Vert(LL)	-0.37	13-15	>647	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.51	13-15	>469	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 99 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.1(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 5-5-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

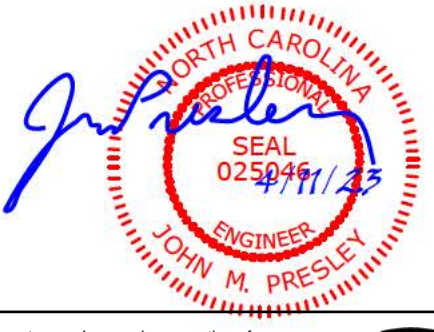
REACTIONS (lb/size) 11=867/0-3-8, (min. 0-1-8), 18=867/0-3-8, (min. 0-1-8)

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

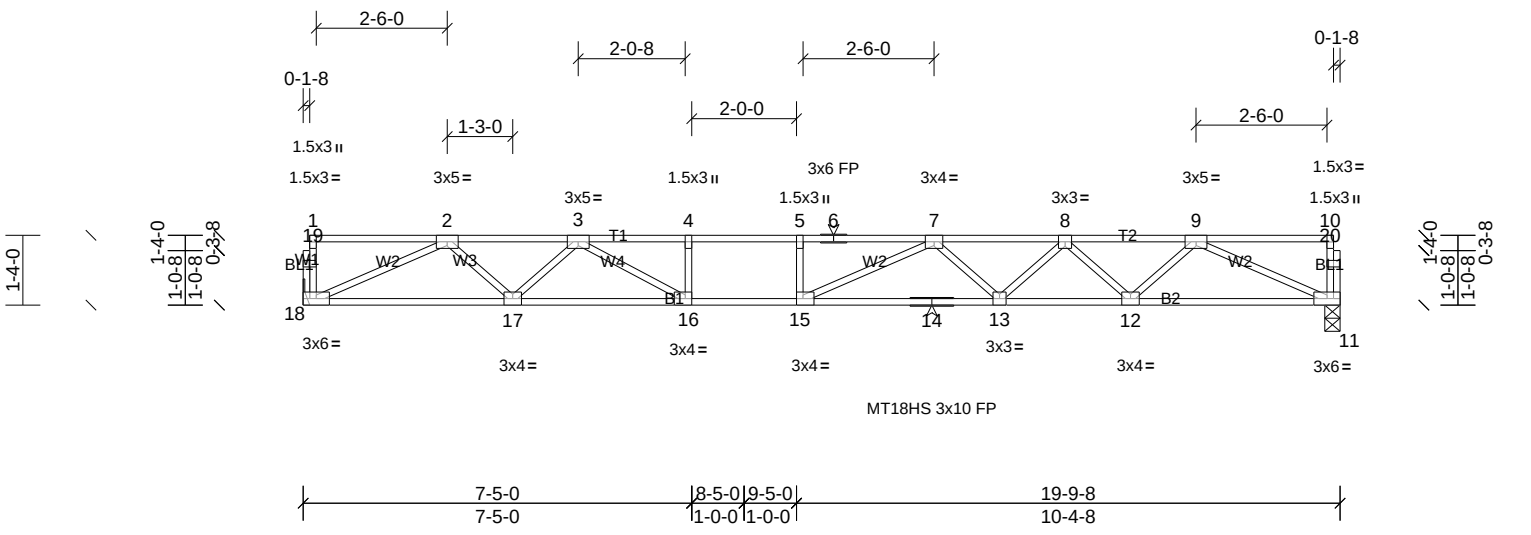
TOP CHORD	2-3=-2220/0, 3-4=-3492/0, 4-5=-3492/0, 5-6=-3492/0, 6-7=-3492/0, 7-8=-3120/0, 8-9=-2229/0
BOT CHORD	17-18=0/1671, 16-17=0/2758, 15-16=0/3492, 14-15=0/3418, 13-14=0/3418, 12-13=0/2767, 11-12=0/1672
WEBS	4-16=-282/0, 2-18=-1835/0, 2-17=0/764, 3-17=-748/0, 3-16=0/975, 9-11=-1836/0, 9-12=0/774, 8-12=-749/0, 8-13=0/491, 7-13=-414/0, 7-15=-230/487

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\SMITHFIELD FC RH 2ND FL OW
72314061	F208	Truss	5	1	Job Reference (optional)



MT18HS 3x10 FP

Scale = 1:44.2

Plate Offsets (X, Y): [15:0-1-8,Edge], [16:0-1-8,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	0.80	Vert(LL)	-0.36	13-15	>651	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.50	13-15	>471	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 98 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.1(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 5-3-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

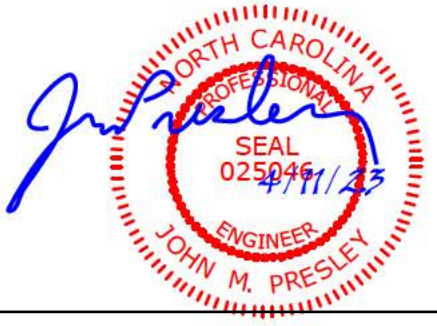
REACTIONS (lb/size) 11=854/0-3-8, (min. 0-1-8), 18=854/ Mechanical, (min. 0-1-8)

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

TOP CHORD	2-3=-2175/0, 3-4=-3374/0, 4-5=-3374/0, 5-6=-3374/0, 6-7=-3374/0, 7-8=-3055/0, 8-9=-2187/0
BOT CHORD	17-18=0/1643, 16-17=0/2702, 15-16=0/3374, 14-15=0/3338, 13-14=0/3338, 12-13=0/2713, 11-12=0/1645
WEBS	4-16=-298/0, 2-18=-1804/0, 2-17=0/740, 3-17=-733/0, 3-16=0/926, 9-11=-1806/0, 9-12=0/755, 8-12=-732/0, 8-13=0/475, 7-13=-394/0, 7-15=-250/449

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\SMITHFIELD FC RH 2ND FL OW
72314061	F209	Truss	2	1	Job Reference (optional)

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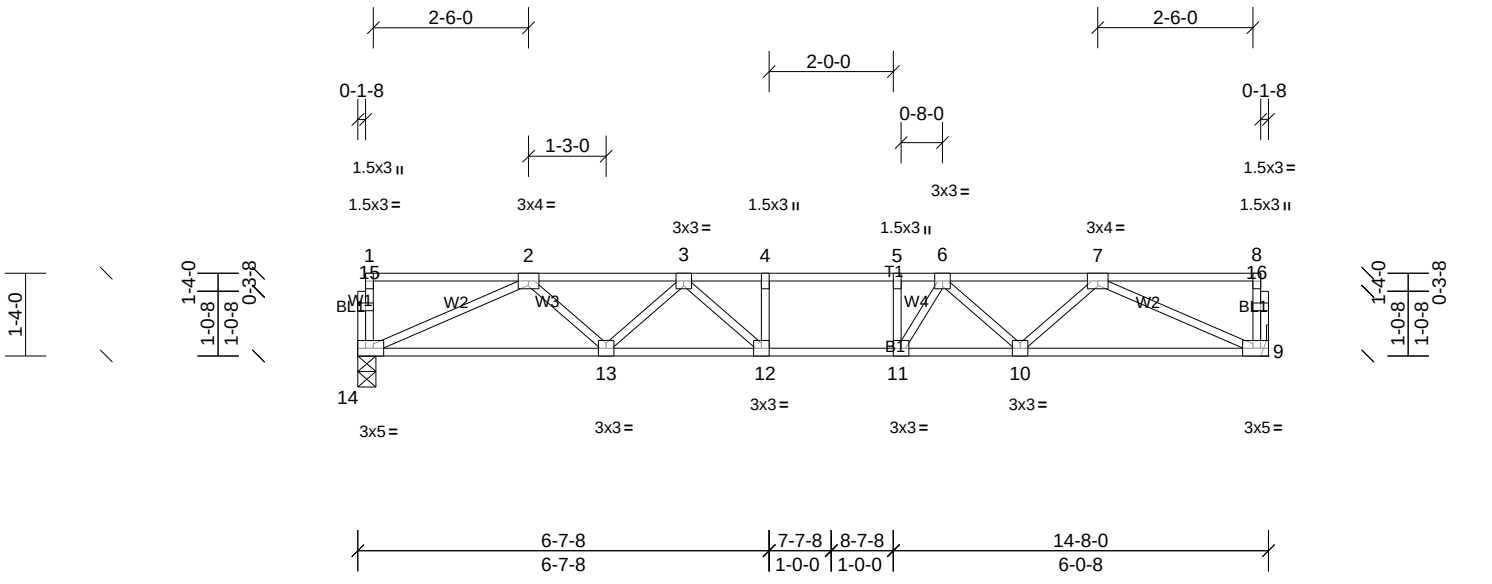


Scale = 1:37.3

Plate Offsets (X, Y): [9:0-2-0,Edge], [14:0-2-0,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	0.42	Vert(LL)	-0.10	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.13	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 75 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.

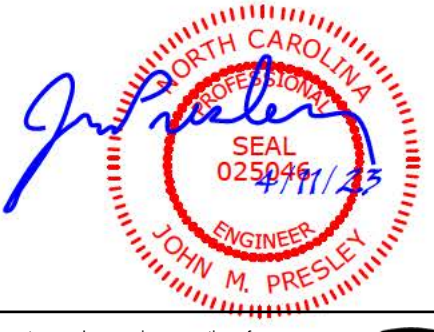
REACTIONS (lb/size) 9=524/ Mechanical, (min. 0-1-8), 14=524/0-3-8, (min. 0-1-8)

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

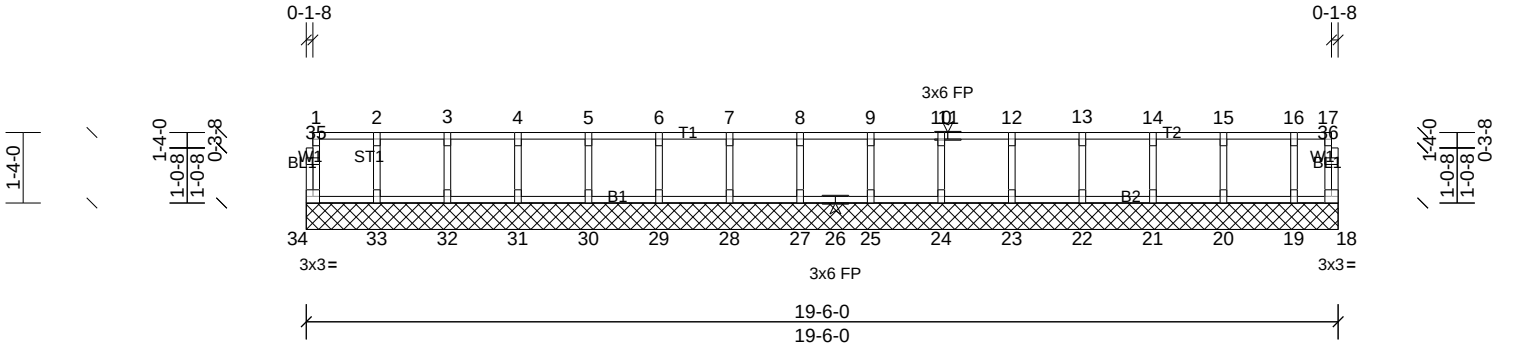
TOP CHORD	2-3=-1228/0, 3-4=-1552/0, 4-5=-1552/0, 5-6=-1552/0, 6-7=-1224/0
BOT CHORD	13-14=0/970, 12-13=0/1456, 11-12=0/1552, 10-11=0/1460, 9-10=0/969
WEBS	2-14=-1064/0, 2-13=0/359, 3-13=-316/0, 3-12=-30/295, 7-9=-1062/0, 7-10=0/355, 6-10=-329/0, 6-11=-29/354

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\SMITHFIELD FC RH 2ND FL OW
72314061	K200	Truss	1	1	Job Reference (optional)



Scale = 1:43.7

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 86 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.

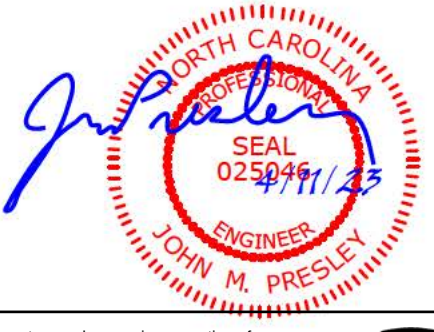
REACTIONS All bearings 19-6-0.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 18, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34

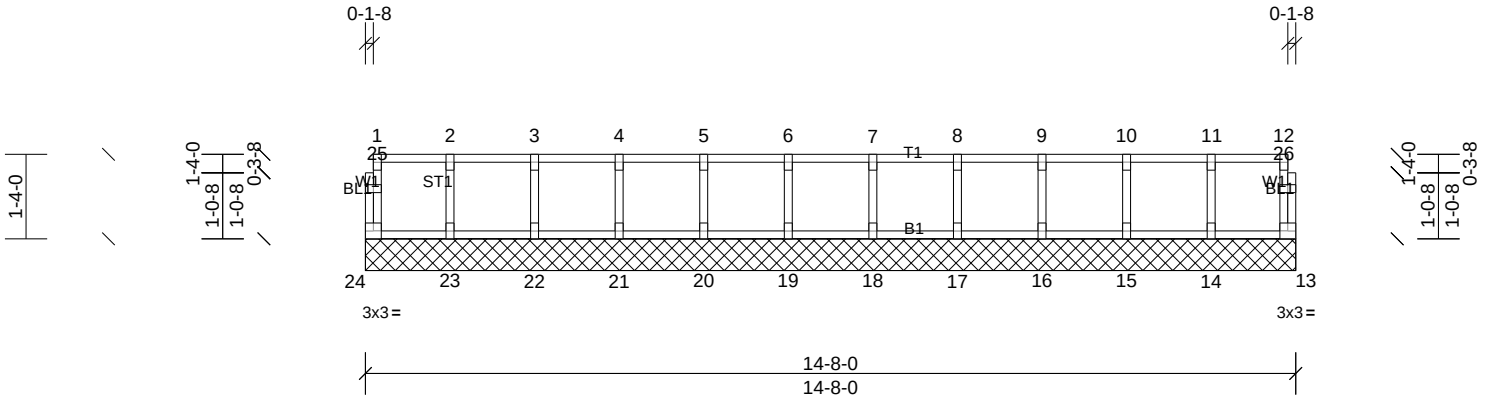
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) 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.
6) 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\SMITHFIELD FC RH 2ND FL OW
72314061	K201	Truss	1	1	Job Reference (optional)



Scale = 1:36.5

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 65 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 All bearings 14-8-0.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24

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) 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.
6) 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.