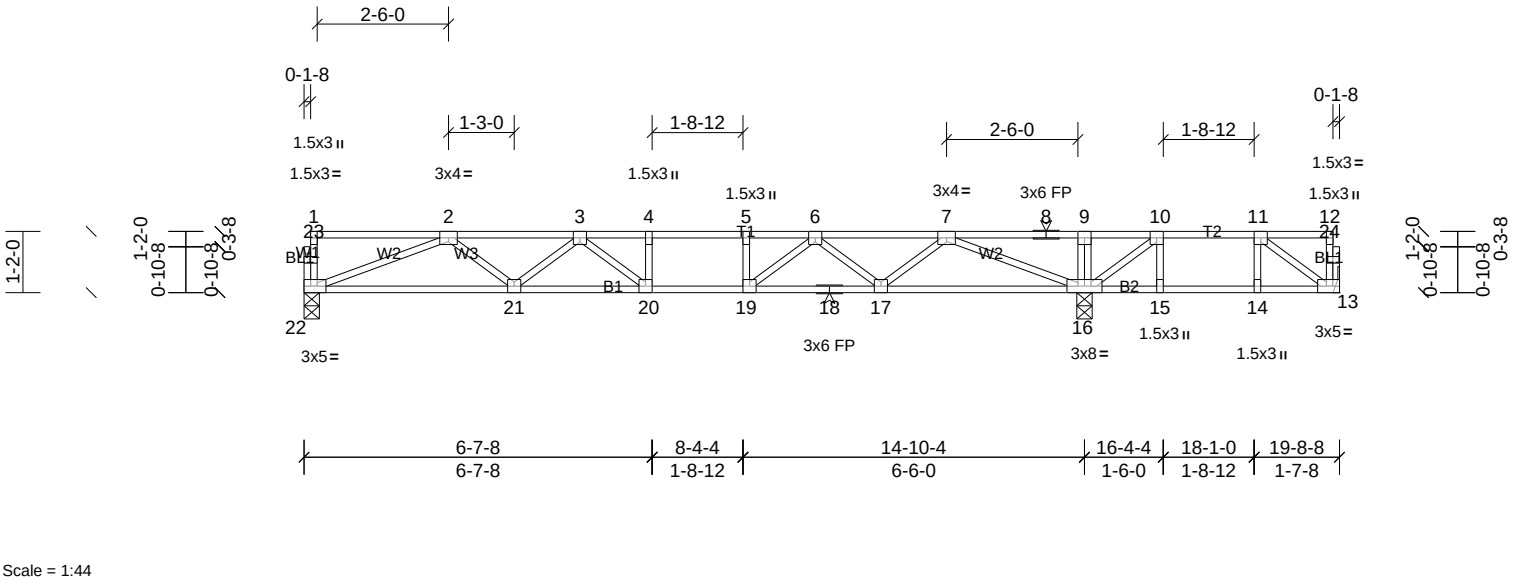
Job	Truss	Truss Type	Qty	Ply	PBS\GUILFORD TRAD B RF CAFE
72423745	F21	Truss	6	1	Job Reference (optional)



Scale = 1:44

Plate Offsets (X, Y): [13:0-2-0,Edge], [22:0-2-0,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	0.52	Vert(LL)	-0.13	20-21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.18	20-21	>963	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: 98 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.

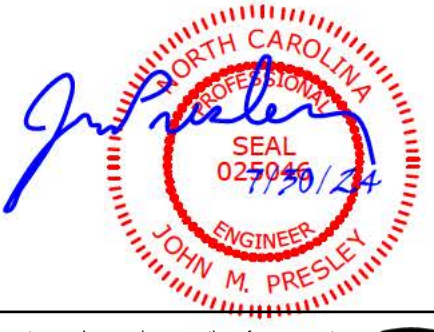
REACTIONS (lb/size) 13=89/ Mechanical, (min. 0-1-8), 16=1009/0-3-8, (min. 0-1-8), 22=604/0-3-8, (min. 0-1-8)
Max Uplift 13=-56 (LC 3)
Max Grav 13=170 (LC 4), 16=1009 (LC 1), 22=607 (LC 10)

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

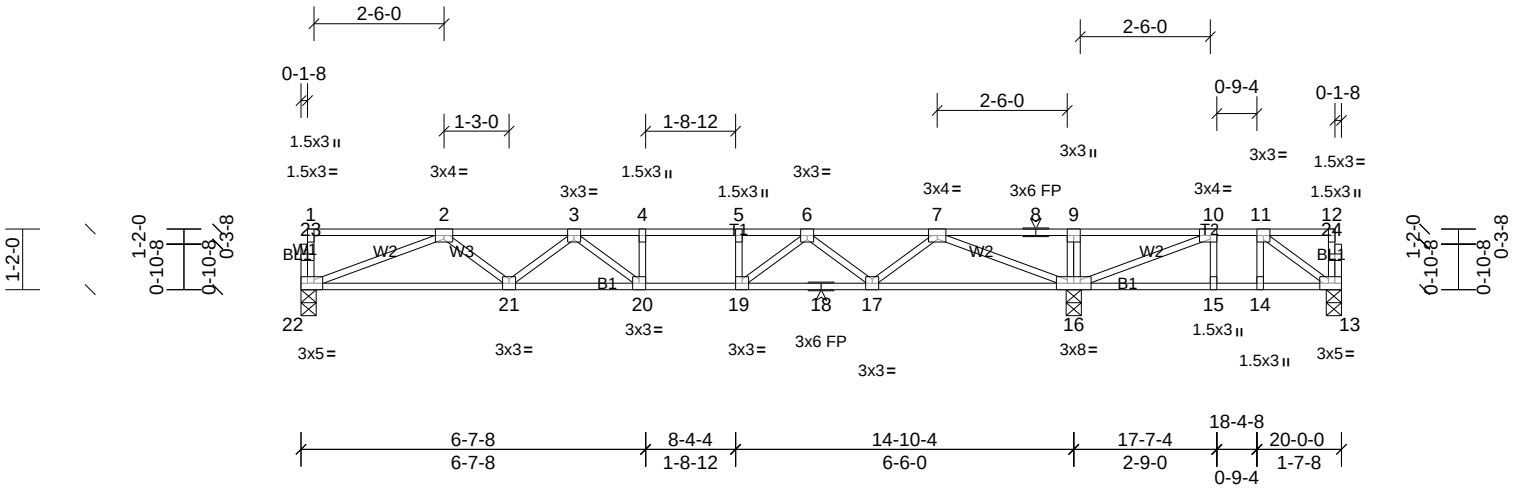
TOP CHORD	2-3=-1627/0, 3-4=-2011/0, 4-5=-2011/0, 5-6=-2011/0, 6-7=-1381/0, 7-8=0/540, 8-9=0/540, 9-10=0/535
BOT CHORD	21-22=0/1292, 20-21=0/1917, 19-20=0/2011, 18-19=0/1770, 17-18=0/1770, 16-17=0/967
WEBS	7-16=-1533/0, 2-22=-1385/0, 7-17=0/549, 2-21=0/435, 6-17=-521/0, 3-21=-377/0, 6-19=0/471, 3-20=-82/320, 10-16=-550/0

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 56 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\GUILFORD TRAD B RF CAFE
72423745	F22	Truss	2	1	Job Reference (optional)



Scale = 1:44.5

Plate Offsets (X, Y): [10:0-1-8,Edge], [13:0-2-0,Edge], [22:0-2-0,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	0.55	Vert(LL)	-0.13	20-21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.18	20-21	>977	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	16	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 100 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=-4/0-3-8, (min. 0-1-8), 16=1163/0-3-8, (min. 0-1-8), 22=568/0-3-8, (min. 0-1-8)
Max Uplift 13=-141 (LC 3)
Max Grav 13=136 (LC 4), 16=1163 (LC 1), 22=576 (LC 10)

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

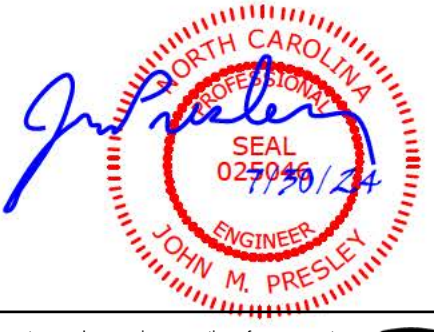
TOP CHORD 2-3=-1513/0, 3-4=-1787/0, 4-5=-1787/0, 5-6=-1787/0, 6-7=-1046/0, 7-8=0/1016, 8-9=0/1016, 9-10=0/1016, 10-11=-119/308

BOT CHORD 21-22=0/1214, 20-21=0/1760, 19-20=0/1787, 18-19=0/1479, 17-18=0/1479, 16-17=0/598, 15-16=-308/119, 14-15=-308/119, 13-14=-308/119

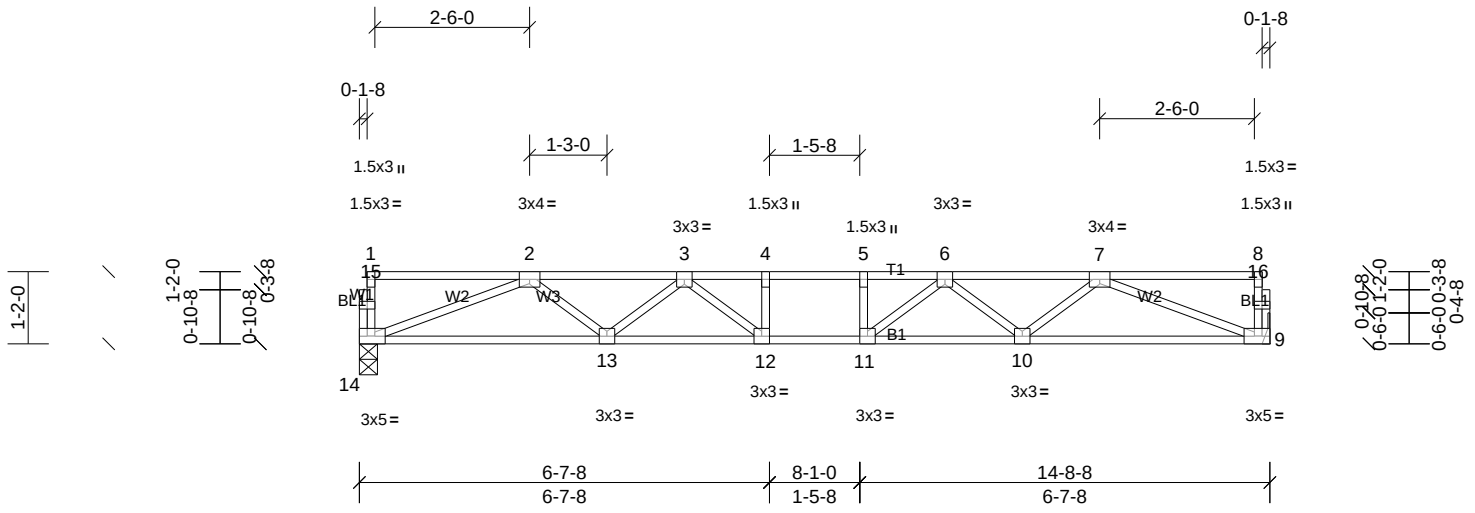
WEBS 7-16=-1625/0, 2-22=-1300/0, 7-17=0/602, 2-21=0/389, 6-17=-587/0, 3-21=-322/0, 6-19=0/527, 10-16=-906/0, 11-13=-143/384

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 141 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\GUILFORD TRAD B RF CAFE
72423745	F23	Truss	3	1	Job Reference (optional)



Scale = 1:37.4

Plate Offsets (X, Y): [9:0-2-0,Edge], [14:0-2-0,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	0.33	Vert(LL)	-0.13	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.18	11-12	>964	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 73 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.

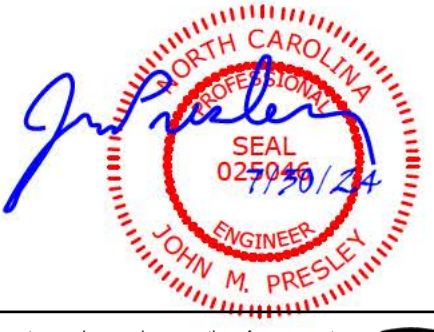
REACTIONS (lb/size) 9=631/ Mechanical, (min. 0-1-8), 14=631/0-3-8, (min. 0-1-8)

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

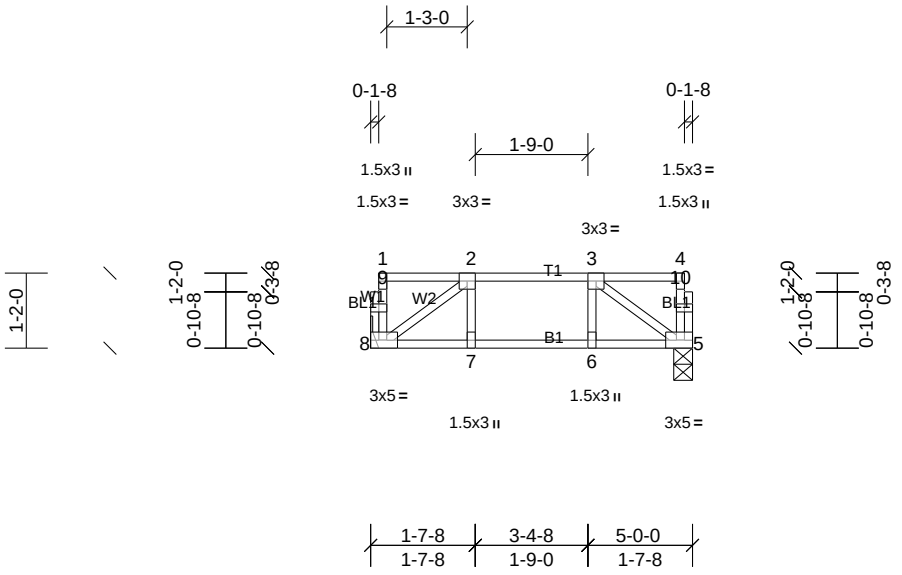
TOP CHORD	2-3=-1710/0, 3-4=-2181/0, 4-5=-2181/0, 5-6=-2181/0, 6-7=-1710/0
BOT CHORD	13-14=0/1350, 12-13=0/2034, 11-12=0/2181, 10-11=0/2034, 9-10=0/1350
WEBS	7-9=-1447/0, 2-14=-1447/0, 7-10=0/469, 2-13=0/469, 6-10=-421/0, 3-13=-421/0, 6-11=-43/379, 3-12=-43/379

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\GUILFORD TRAD B RF CAFE
72423745	F24	Truss	3	1	Job Reference (optional)



Scale = 1:35.9

Plate Offsets (X, Y): [5:0-2-0,Edge], [8:0-2-0,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	0.13	Vert(LL)	-0.01	7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.01	7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 27 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

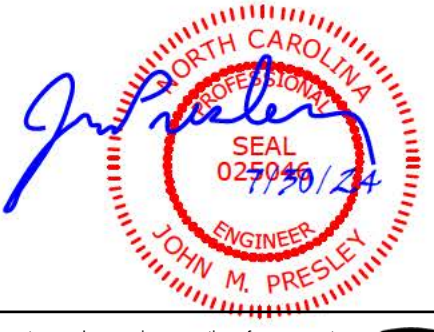
TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=204/0-3-8, (min. 0-1-8), 8=204/ Mechanical, (min. 0-1-8)

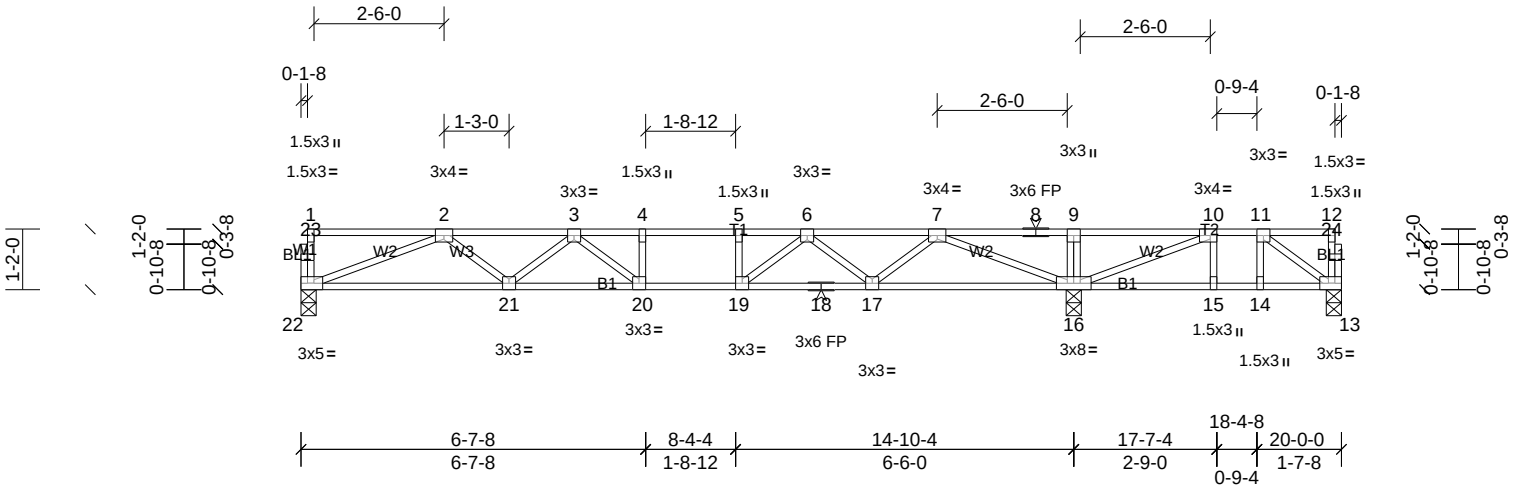
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-5=-271/0, 2-8=-271/0

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\GUILFORD TRAD B RF CAFE
72423745	F25	Truss	4	1	Job Reference (optional)



Scale = 1:44.5

Plate Offsets (X, Y): [10:0-1-8,Edge], [13:0-2-0,Edge], [22:0-2-0,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	0.55	Vert(LL)	-0.13	20-21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.18	20-21	>977	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	16	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 100 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=-4/0-3-8, (min. 0-1-8), 16=1163/0-3-8, (min. 0-1-8), 22=568/0-3-8, (min. 0-1-8)
Max Uplift 13=-141 (LC 3)
Max Grav 13=136 (LC 4), 16=1163 (LC 1), 22=576 (LC 10)

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

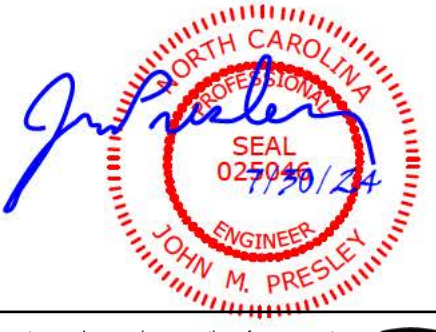
TOP CHORD 2-3=-1513/0, 3-4=-1787/0, 4-5=-1787/0, 5-6=-1787/0, 6-7=-1046/0, 7-8=0/1016, 8-9=0/1016, 9-10=0/1016, 10-11=-119/308

BOT CHORD 21-22=0/1214, 20-21=0/1760, 19-20=0/1787, 18-19=0/1479, 17-18=0/1479, 16-17=0/598, 15-16=-308/119, 14-15=-308/119, 13-14=-308/119

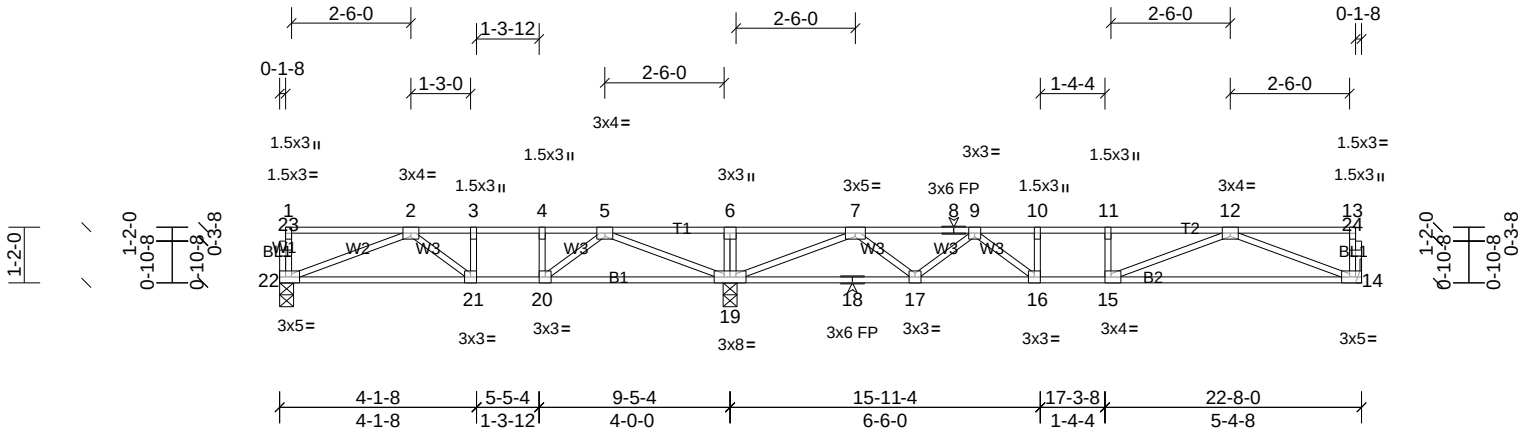
WEBS 7-16=-1625/0, 2-22=-1300/0, 7-17=0/602, 2-21=0/389, 6-17=-587/0, 3-21=-322/0, 6-19=0/527, 10-16=-906/0, 11-13=-143/384

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 141 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\GUILFORD TRAD B RF CAFE
72423745	F26	Truss	2	1	Job Reference (optional)



Scale = 1:48.5

Plate Offsets (X, Y): [14:0-2-0,Edge], [15:0-1-8,Edge], [22:0-2-0,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)	-0.12	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.21	14-15	>756	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 111 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.

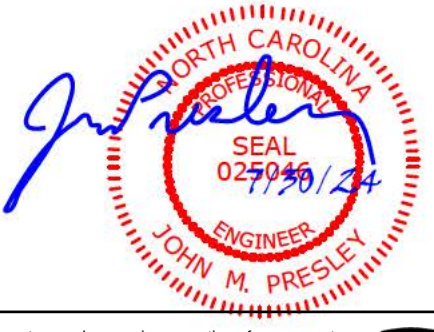
REACTIONS (lb/size) 14=620/ Mechanical, (min. 0-1-8), 19=1461/0-3-8, (min. 0-1-8), 22=372/0-3-8, (min. 0-1-8)
Max Grav 14=637 (LC 4), 19=1461 (LC 1), 22=447 (LC 3)

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

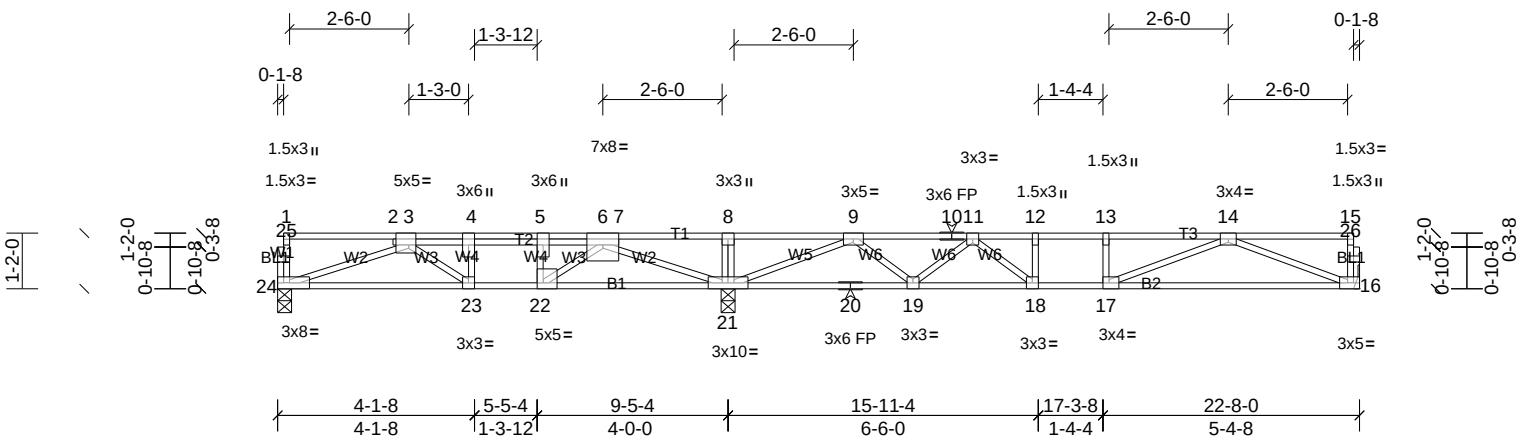
TOP CHORD	2-3=-868/168, 3-4=-868/168, 4-5=-868/168, 5-6=0/1130, 6-7=0/1130, 7-8=-1171/0, 8-9=-1171/0, 9-10=-1805/0, 10-11=-1805/0, 11-12=-1805/0
BOT CHORD	21-22=-24/819, 20-21=-168/868, 19-20=-450/586, 18-19=-27/718, 17-18=-27/718, 16-17=0/1593, 15-16=0/1805, 14-15=0/1299
WEBS	6-19=-296/0, 5-19=-1293/0, 2-22=-874/27, 5-20=0/631, 4-20=-308/0, 7-19=-1766/0, 12-14=-1391/0, 7-17=0/622, 12-15=0/546, 9-17=-591/0, 9-16=0/488

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\GUILFORD TRAD B RF CAFE
72423745	F26L	Truss	1	1	Job Reference (optional)



Scale = 1:48.5

Plate Offsets (X, Y): [3:0-1-12,Edge], [5:0-3-0,Edge], [16:0-2-0,Edge], [17:0-1-8,Edge], [22:0-1-8,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	0.80	Vert(LL)	-0.11	23-24	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.19	16-17	>828	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.04	16	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 118 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, Except: 6-0-0 oc bracing: 21-22,19-21.

REACTIONS (lb/size) 16=592/ Mechanical, (min. 0-1-8), 21=1995/0-3-8, (min. 0-1-8), 24=966/0-3-8, (min. 0-1-8)
Max Grav 16=622 (LC 6), 21=1995 (LC 1), 24=1053 (LC 5)

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

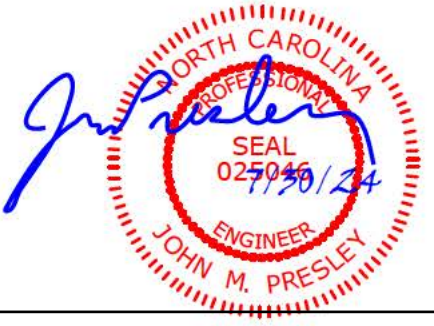
TOP CHORD	3-4=-2942/0, 4-5=-2942/0, 5-6=-2942/0, 6-7=0/1402, 7-8=0/1437, 8-9=0/1433, 9-10=-1030/31, 10-11=-1030/31, 11-12=-1719/0, 12-13=-1719/0, 13-14=-1719/0
BOT CHORD	23-24=0/2502, 22-23=0/2942, 21-22=-258/1706, 20-21=-223/560, 19-20=-223/560, 18-19=0/1475, 17-18=0/1719, 16-17=0/1259
WEBS	8-21=-323/0, 6-21=-2746/0, 3-24=-2664/0, 6-22=0/1880, 3-23=-107/550, 4-23=-354/72, 5-22=-1035/0, 9-21=-1823/0, 14-16=-1348/0, 9-19=0/664, 14-17=0/496, 11-19=-638/0, 11-18=0/541

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) This truss is not designed to be used as a floor truss.
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.

LOAD CASE(S) Standard

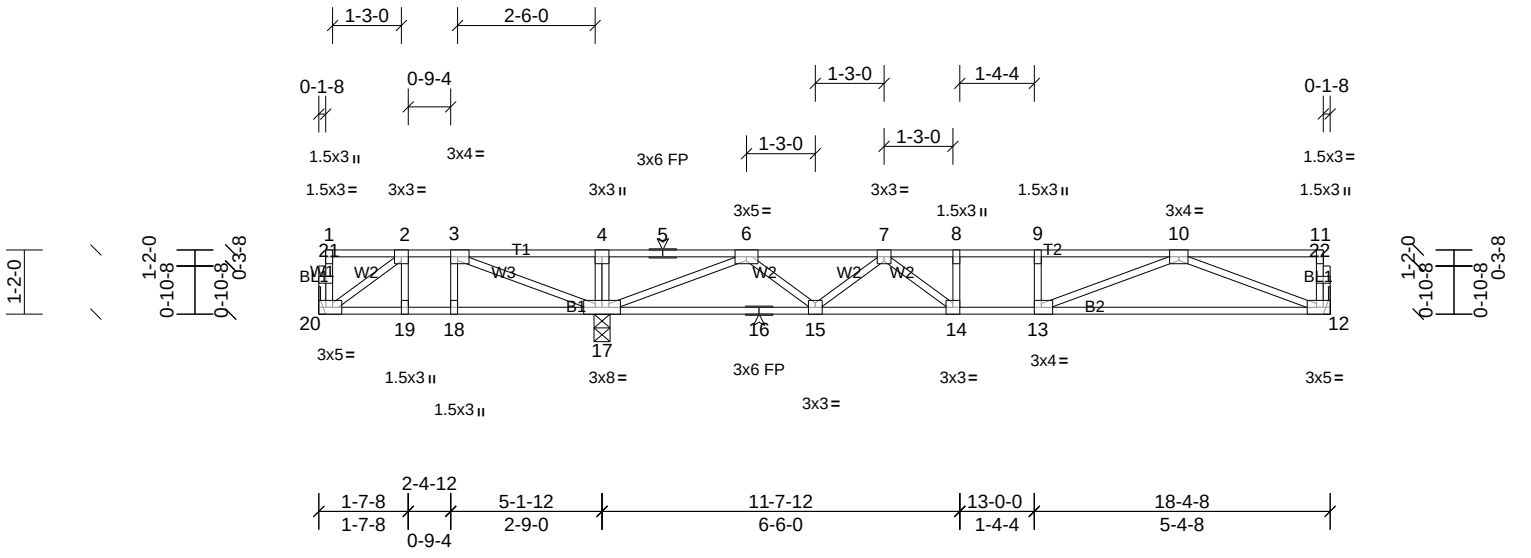
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 16-24=-10, 1-15=-100
Concentrated Loads (lb)
Vert: 4=-1100



Job	Truss	Truss Type	Qty	Ply	PBS\GUILFORD TRAD B RF CAFE
72423745	F27	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Micah Clayton — Run: 8.73 S Jan 4 2024 Print: 8.730 S Jan 4 2024 MiTek Industries, Inc. Tue Jul 30 13:32:55 — Page: 1

ID:BfJz37_w3GQ4ylf3NEWd8lyuXv3-0TH0upt9eRhX?AdV4n4cSJ1a3NHvVJt4PON5p4ystOs



Scale = 1:42

Plate Offsets (X, Y): [3:0-1-8,Edge], [12:0-2-0,Edge], [13:0-1-8,Edge], [20:0-2-0,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	0.62	Vert(LL)	-0.11	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.21	12-13	>767	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 92 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) 12=628/ Mechanical, (min. 0-1-8), 17=1308/0-3-8, (min. 0-1-8), 20=45/ Mechanical, (min. 0-1-8)

Max Uplift 20=-125 (LC 4)

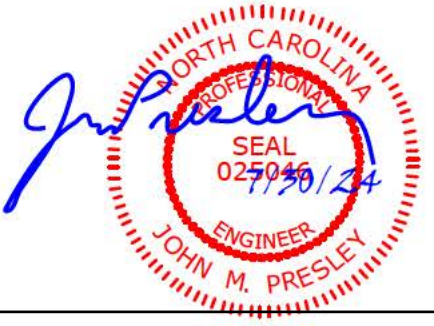
Max Grav 12=640 (LC 7), 17=1308 (LC 1), 20=187 (LC 3)

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

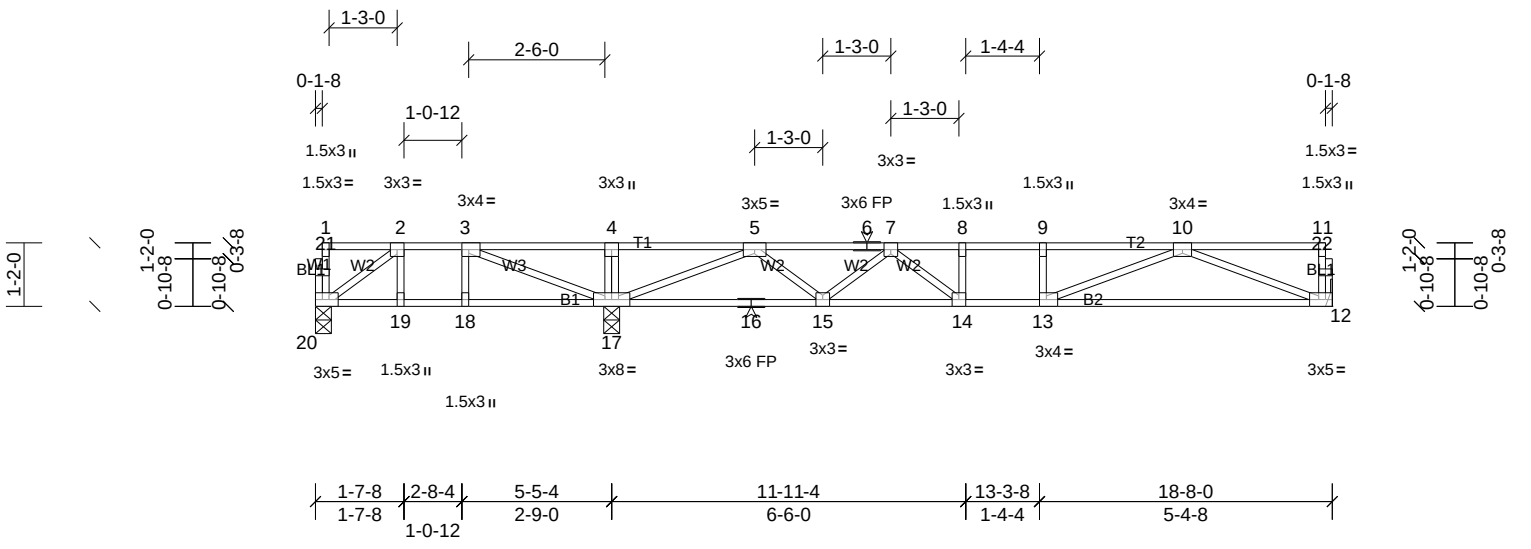
TOP CHORD	2-3=-180/289, 3-4=0/1031, 4-5=0/1031, 5-6=0/1031, 6-7=-1197/0, 7-8=-1820/0, 8-9=-1820/0, 9-10=-1820/0
BOT CHORD	19-20=-289/180, 18-19=-289/180, 17-18=-289/180, 16-17=0/748, 15-16=0/748, 14-15=0/1613, 13-14=0/1820, 12-13=0/1306
WEBS	4-17=-276/0, 3-17=-975/0, 2-20=-218/361, 6-17=-1768/0, 10-12=-1398/0, 6-15=0/609, 10-13=0/573, 7-15=-574/0, 7-14=0/465

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 125 lb uplift at joint 20.
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\GUILFORD TRAD B RF CAFE
72423745	F28	Truss	7	1	Job Reference (optional)



Scale = 1:42.5

Plate Offsets (X, Y): [3:0-1-8,Edge], [12:0-2-0,Edge], [13:0-1-8,Edge], [20:0-2-0,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	0.60	Vert(LL)	-0.11	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.20	12-13	>767	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 93 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.

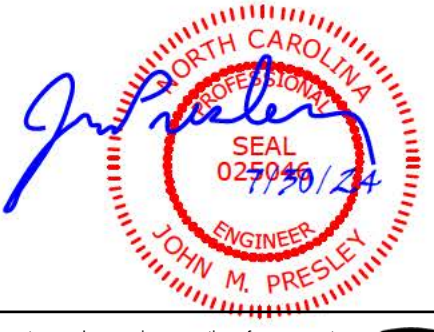
REACTIONS (lb/size) 12=635/ Mechanical, (min. 0-1-8), 17=1289/0-3-8, (min. 0-1-8), 20=90/0-3-8, (min. 0-1-8)
Max Uplift 20=-87 (LC 4)
Max Grav 12=649 (LC 7), 17=1289 (LC 1), 20=205 (LC 3)

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

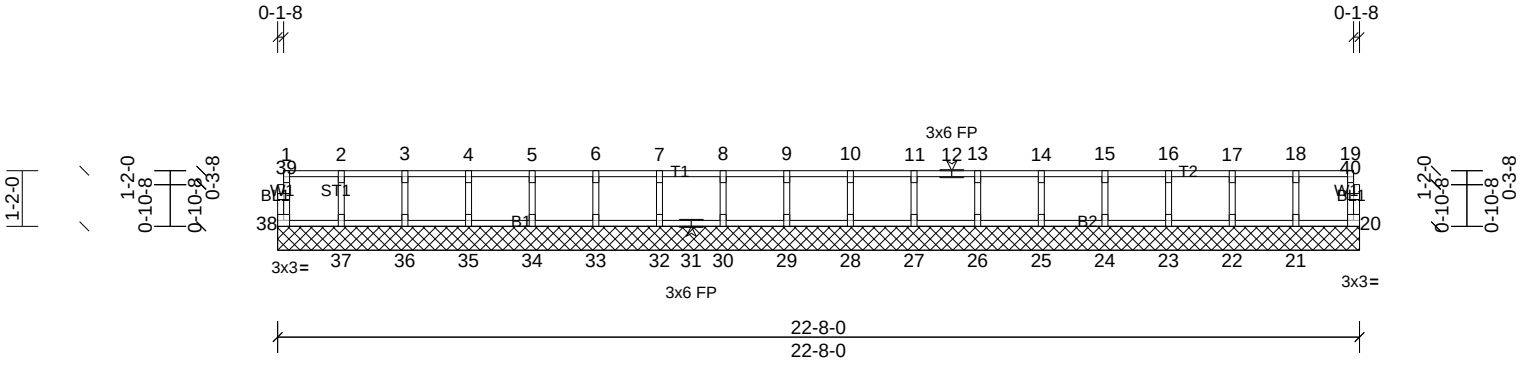
TOP CHORD	3-4=0/958, 4-5=0/958, 5-6=-1280/0, 6-7=-1280/0, 7-8=-1871/0, 8-9=-1871/0, 9-10=-1871/0
BOT CHORD	16-17=0/842, 15-16=0/842, 14-15=0/1683, 13-14=0/1871, 12-13=0/1329
WEBS	4-17=-275/0, 3-17=-949/0, 2-20=-247/300, 5-17=-1746/0, 10-12=-1423/0, 5-15=0/601, 10-13=0/593, 7-15=-563/0, 7-14=0/463

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 87 lb uplift at joint 20.
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\GUILFORD TRAD B RF CAFE
72423745	FK20	Truss	1	1	Job Reference (optional)



Scale = 1:48.5

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: 94 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.

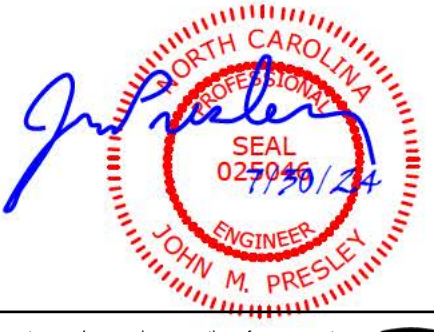
REACTIONS All bearings 22-8-0.

(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 37, 38

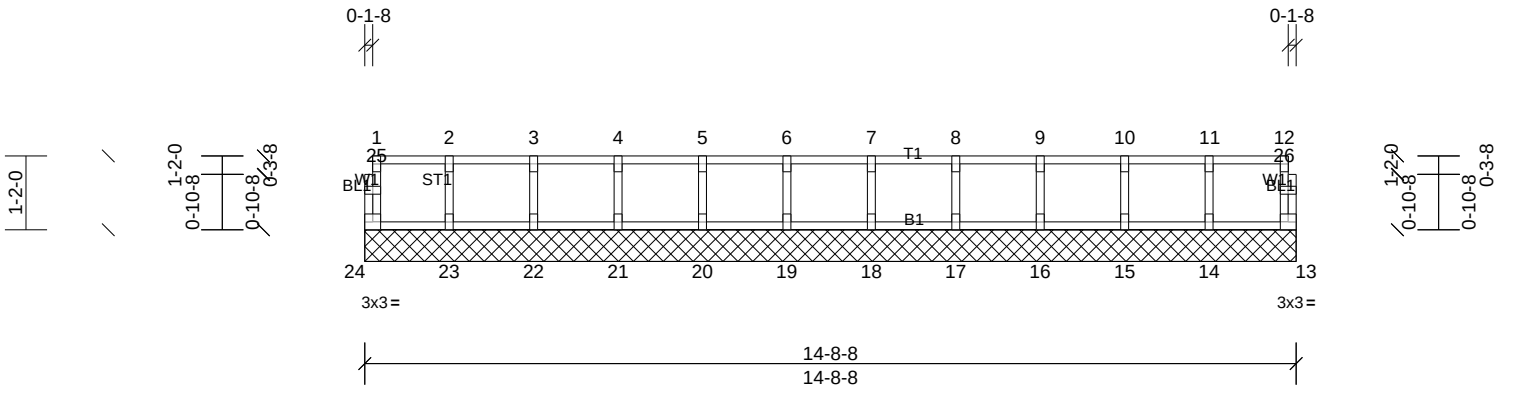
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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\GUILFORD TRAD B RF CAFE
72423745	FK21	Truss	1	1	Job Reference (optional)



Scale = 1:36.5

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	0.06	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	0.02	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 62 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.

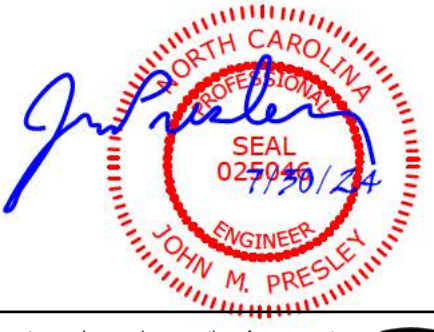
REACTIONS All bearings 14-8-8.

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

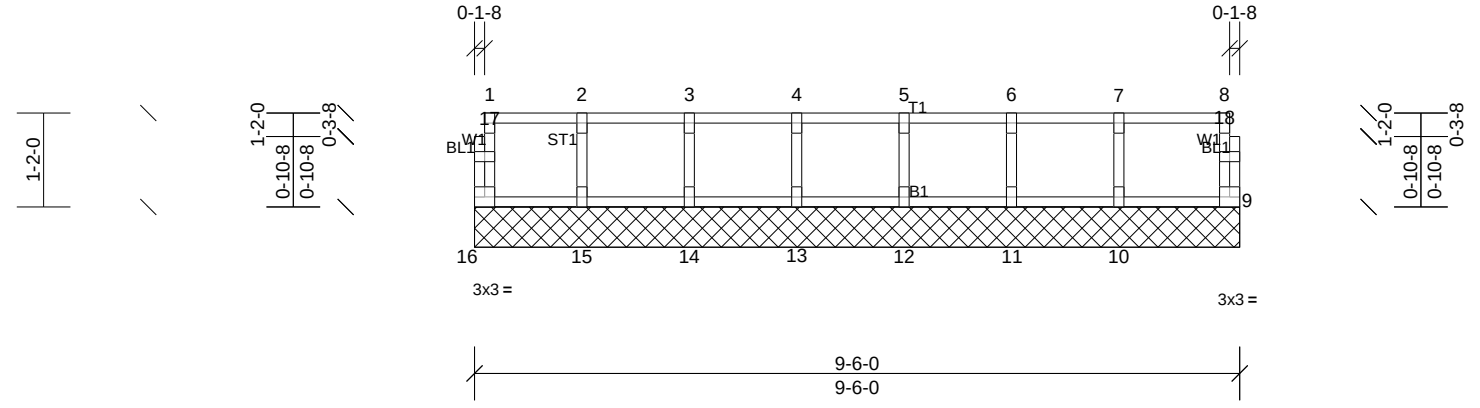
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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.



Job	Truss	Truss Type	Qty	Ply	PBS\GUILFORD TRAD B RF CAFE
72423745	FK22	Truss	1	1	Job Reference (optional)



Scale = 1:28.7

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	0.07	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: 41 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 9-6-0.
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 9, 10, 11, 12, 13, 14, 15, 16

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.