Job	Truss	Truss Type	Qty	Ply	BROOKS CLASSIC
20040580F	FG1	FLOOR GIRDER	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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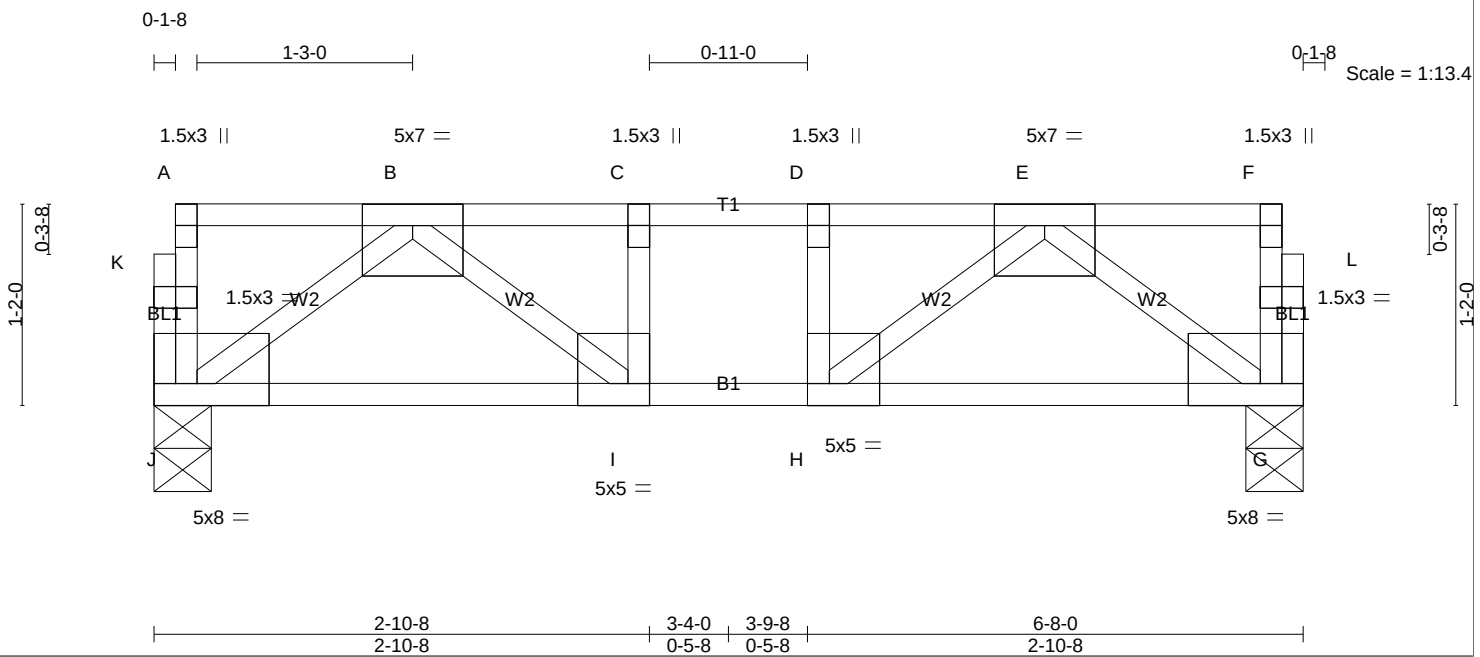

Plate Offsets (X,Y)-- [G:Edge,0-1-8], [H:0-1-8,Edge], [I:0-1-8,Edge], [J:Edge,0-1-8]

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	0.98	Vert(LL)	-0.06	I-J	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.09	I-J	>843	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.02	G	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 36 lb	FT = 20%F, 12%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) J=2297/0-4-0, G=2297/0-4-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD J-K=-377/0, A-K=-377/0, G-L=-377/0, F-L=-377/0, A-B=-23/0, B-C=-3560/0, C-D=-3560/0, D-E=-3560/0, E-F=-23/0
BOT CHORD I-J=0/2535, H-I=0/3560, G-H=0/2535
WEBS E-G=-3151/0, B-J=-3151/0, E-H=0/1462, B-I=0/1462, C-I=-799/0, D-H=-799/0

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) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: G-J=-10, A-F=-720
2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: G-J=-10, A-F=-720
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: G-J=-10, A-D=-720, D-F=-332
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: G-J=-10, A-C=-332, C-F=-720
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: G-J=-10, A-D=-720, D-F=-332
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: G-J=-10, A-C=-332, C-F=-720

Job	Truss	Truss Type	Qty	Ply	BROOKS CLASSIC
20040580F	FG2	Floor Girder	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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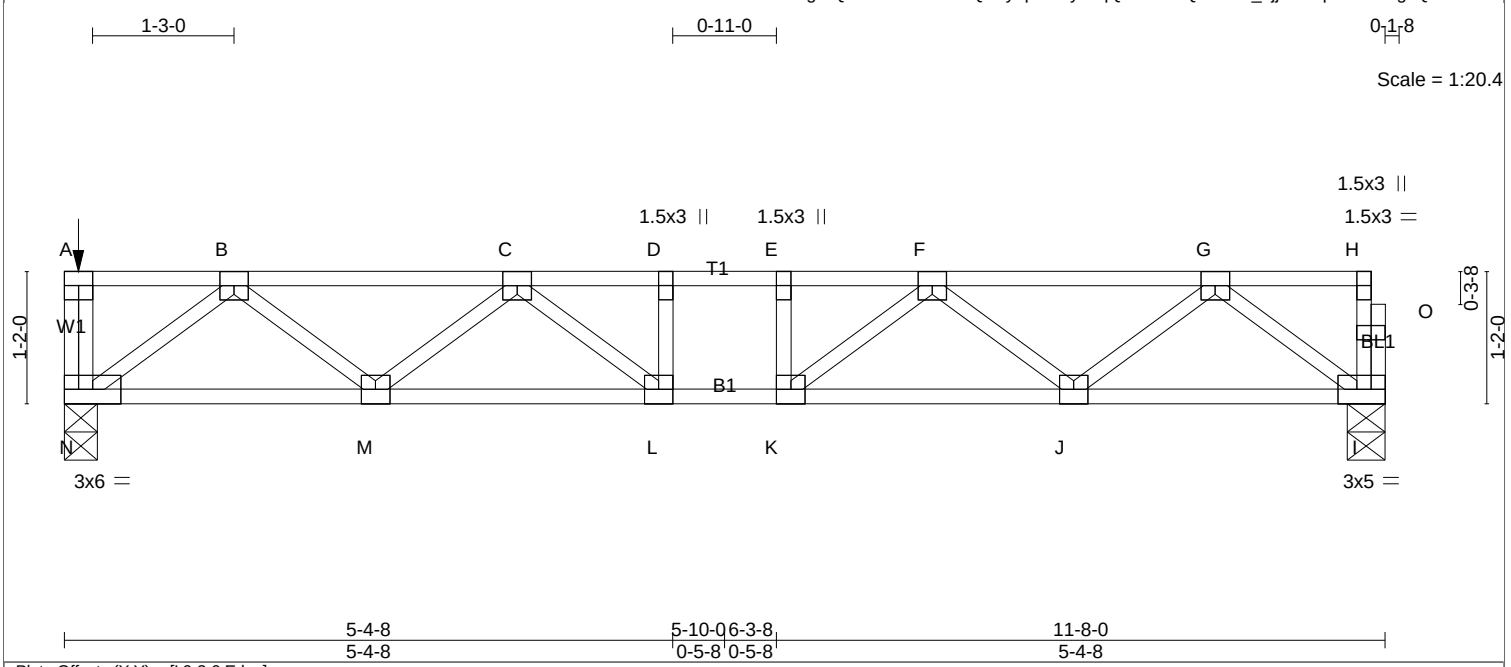

Plate Offsets (X,Y)-- [I:0-2-0,Edge]

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	0.39	Vert(LL)	-0.06	L	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.10	L	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.03	I	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 61 lb	FT = 20%F, 12%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(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. (lb/size) N=1225/0-3-8, I=735/0-4-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-N=-548/0, I-O=-42/0, H-O=-42/0, A-B=0/0, B-C=-1400/0, C-D=-2014/0, D-E=-2014/0, E-F=-2014/0, F-G=-1399/0, G-H=-3/0
BOT CHORD M-N=0/903, L-M=0/1860, K-L=0/2014, J-K=0/1861, I-J=0/902
WEBS G-I=-1129/0, B-N=-1133/0, G-J=0/647, B-M=0/646, F-J=-601/0, C-M=-600/0, F-K=-13/363, C-L=-13/363, D-L=-165/0, E-K=-164/0

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 10-0-0 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.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 533 lb down at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
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 (plf)
Vert: I-N=-10, A-H=-120
Concentrated Loads (lb)
Vert: A=-483(F)

Job	Truss	Truss Type	Qty	Ply	BROOKS CLASSIC
20040580F	FG3	Floor Girder	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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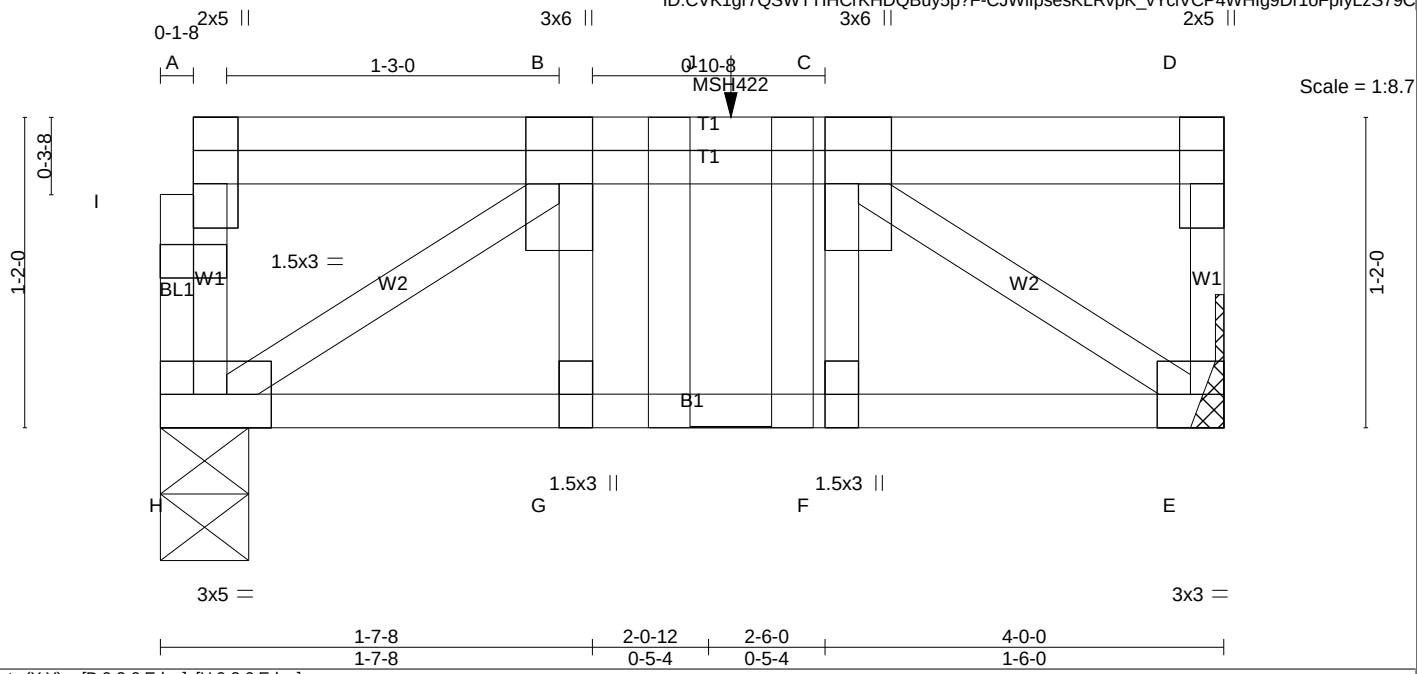

Plate Offsets (X,Y)-- [D:0-3-0,Edge], [H:0-2-0,Edge]

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)	-0.01	F	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.01	F	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	E	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 28 lb	FT = 20%F, 12%E

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

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

REACTIONS. (lb/size) H=516/0-4-0, E=559/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD H-I=-57/9, A-I=-57/9, D-E=-73/0, A-B=-4/1, B-J=-677/0, C-J=-677/0, C-D=0/0
BOT CHORD G-H=0/677, F-G=0/677, E-F=0/677
WEBS C-E=-831/0, B-H=-815/0, B-G=0/27, C-F=-7/9

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 10-0-0 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) Use USP MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent at 2-1-12 from the left end to connect truss(es) FT5 (1 ply 2x4 SP) to front 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 (plf)
Vert: E-H=-10, A-D=-120
Concentrated Loads (lb)
Vert: J=-587(F)

Job	Truss	Truss Type	Qty	Ply	BROOKS CLASSIC
20040580F	FT1	Floor	9	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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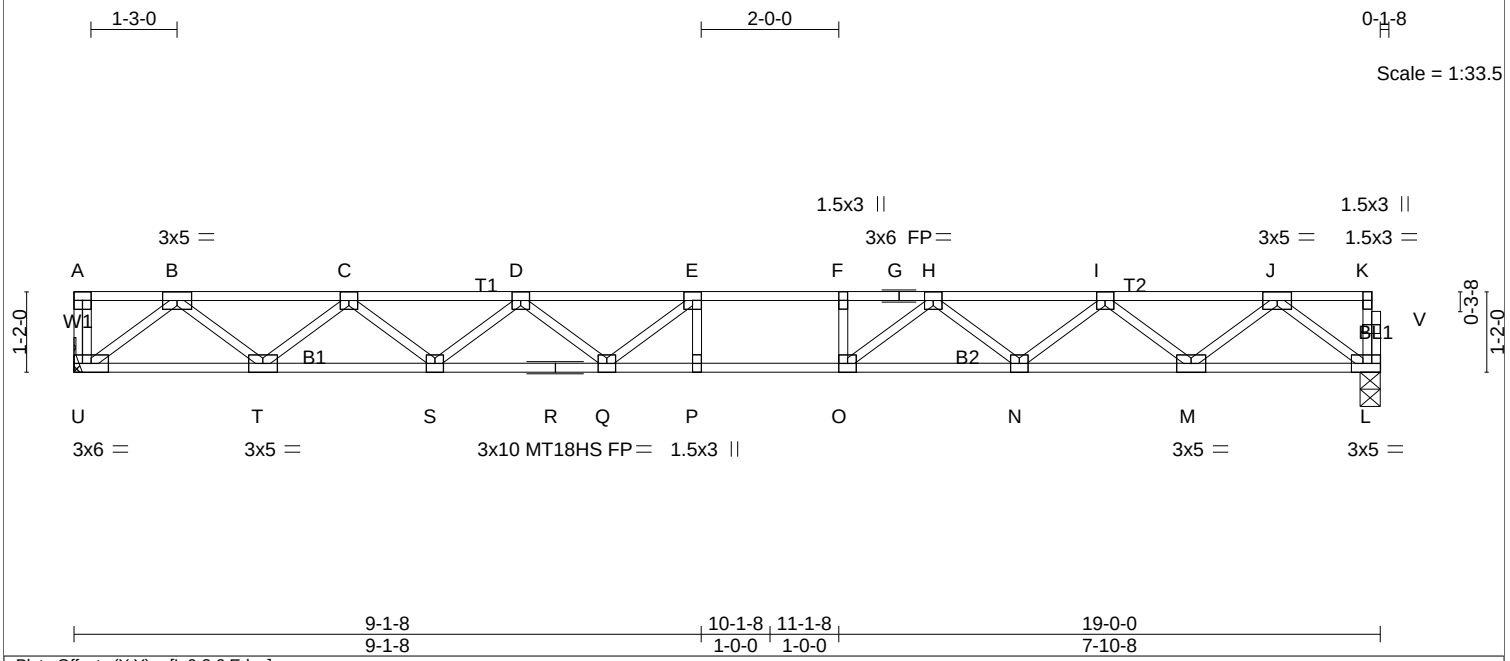

Plate Offsets (X,Y)-- [L:0-2-0,Edge]

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	0.69	Vert(LL)	-0.28	P	>805	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.45	P	>497	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.07	L	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 94 lb	FT = 20%F, 12%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: P-Q,O-P.

REACTIONS. (lb/size) U=812/Mechanical, L=808/0-3-8

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-U=-33/0, L-V=-32/0, K-V=-32/0, A-B=0/0, B-C=-1732/0, C-D=-2876/0, D-E=-3488/0, E-F=-3604/0, F-G=-3604/0, G-H=-3604/0, H-I=-2859/0, I-J=-1736/0, J-K=-2/0
BOT CHORD T-U=0/1017, S-T=0/2423, R-S=0/3314, Q-R=0/3314, P-Q=0/3604, O-P=0/3604, N-O=0/3296, M-N=0/2428, L-M=0/1015
WEBS B-U=-1276/0, B-T=0/930, C-T=-900/0, C-S=0/589, D-S=-571/0, D-Q=0/337, E-Q=-384/92, E-P=-154/73, J-L=-1271/0, J-M=0/938, I-M=-901/0, I-N=0/561, H-N=-568/0, H-O=0/597, F-O=-238/0

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 10-0-0 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BROOKS CLASSIC
20040580F	FT2	Floor	7	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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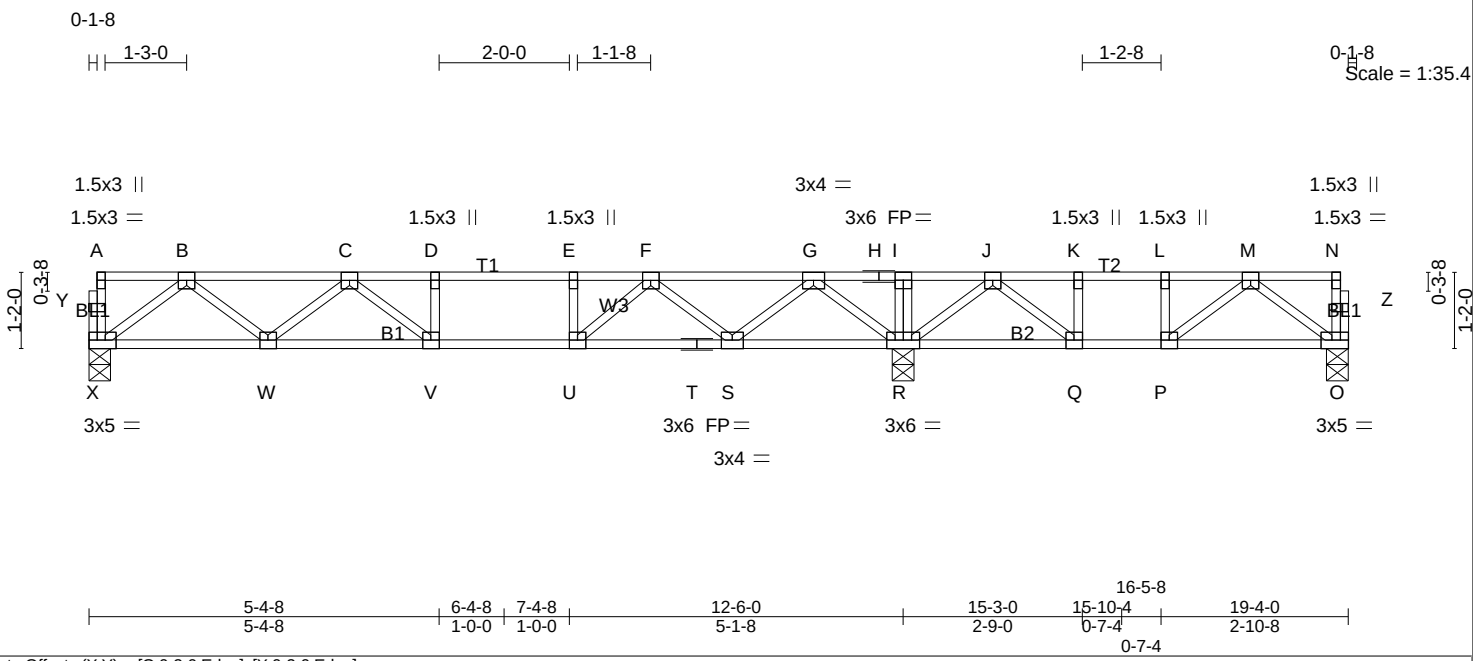

Plate Offsets (X,Y)-- [O:0-2-0,Edge], [X:0-2-0,Edge]

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)	-0.11	V-W	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.17	V-W	>885	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.03	O	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 98 lb	FT = 20%F, 12%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(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, Except:
6-0-0 oc bracing: Q-R,P-Q.

REACTIONS. (lb/size) X=725/0-4-0, R=1446/0-4-0, O=295/0-4-0
Max Grav X=734(LC 10), R=1446(LC 1), O=366(LC 4)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD X-Y=-43/0, A-Y=-43/0, O-Z=-59/0, N-Z=-59/0, A-B=-3/0, B-C=-1405/0, C-D=-1963/0, D-E=-1963/0, E-F=-1963/0, F-G=-953/0, G-H=0/902, H-I=0/902, I-J=0/902, J-K=-489/123, K-L=-489/123, L-M=-489/123, M-N=-4/0
BOT CHORD W-X=0/904, V-W=0/1850, U-V=0/1963, T-U=0/1578, S-T=0/1578, R-S=0/317, Q-R=-445/150, P-Q=-123/489, O-P=0/386
WEBS D-V=-169/0, E-U=-325/0, I-R=-163/0, B-X=-1130/0, B-W=0/652, C-W=-580/0, C-V=-18/308, G-R=-1328/0, G-S=0/843, F-S=-840/0, F-U=0/648, J-R=-797/0, J-Q=0/633, K-Q=-309/0, M-O=-480/0, M-P=-174/132, L-P=-87/77

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 10-0-0 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BROOKS CLASSIC
20040580F	FT3	Floor	9	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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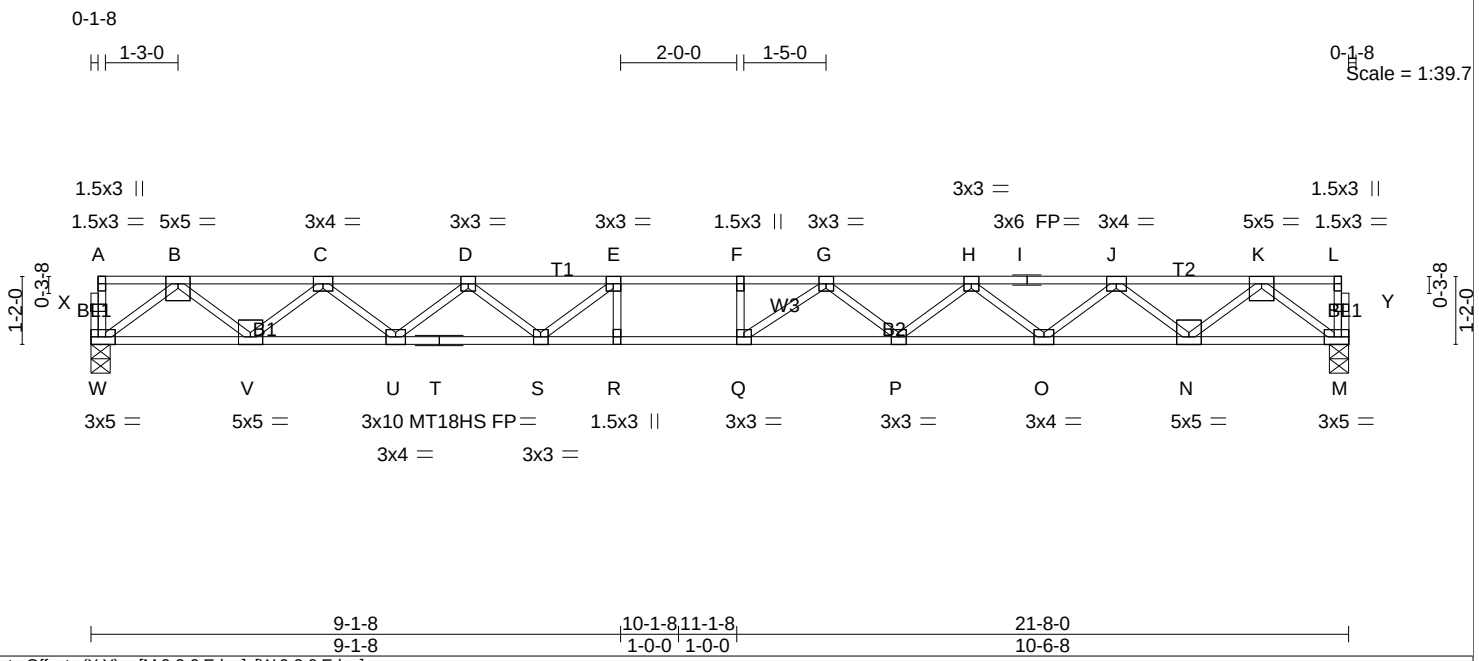

Plate Offsets (X,Y)-- [M:0-2-0,Edge], [W:0-2-0,Edge]

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	0.53	Vert(LL)	-0.38	P-Q	>685	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.61	P-Q	>420	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.09	M	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 107 lb	FT = 20%F, 12%E

LUMBER-
TOP CHORD 2x4 SP SS(flat)
BOT CHORD 2x4 SP SS(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. (lb/size) W=923/0-4-0, M=923/0-4-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD W-X=-31/0, A-X=-31/0, M-Y=-31/0, L-Y=-31/0, A-B=-2/0, B-C=-2022/0, C-D=-3440/0, D-E=-4336/0, E-F=-4709/0, F-G=-4709/0, G-H=-4341/0, H-I=-3438/0, I-J=-3438/0, J-K=-2022/0, K-L=-2/0
BOT CHORD V-W=0/1166, U-V=0/2856, T-U=0/4000, S-T=0/4000, R-S=0/4709, Q-R=0/4709, P-Q=0/4633, O-P=0/4010, N-O=0/2853, M-N=0/1167
WEBS E-R=-78/175, F-Q=-176/16, B-W=-1461/0, B-V=0/1113, C-V=-1086/0, C-U=0/760, D-U=-729/0, D-S=0/526, E-S=-671/0, K-M=-1462/0, K-N=0/1112, J-N=-1082/0, J-O=0/762, H-O=-745/0, H-P=0/430, G-P=-399/0, G-Q=-200/439

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) Required 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BROOKS CLASSIC
20040580F	FT4	Floor	5	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 13:22:03 2020 Page 1
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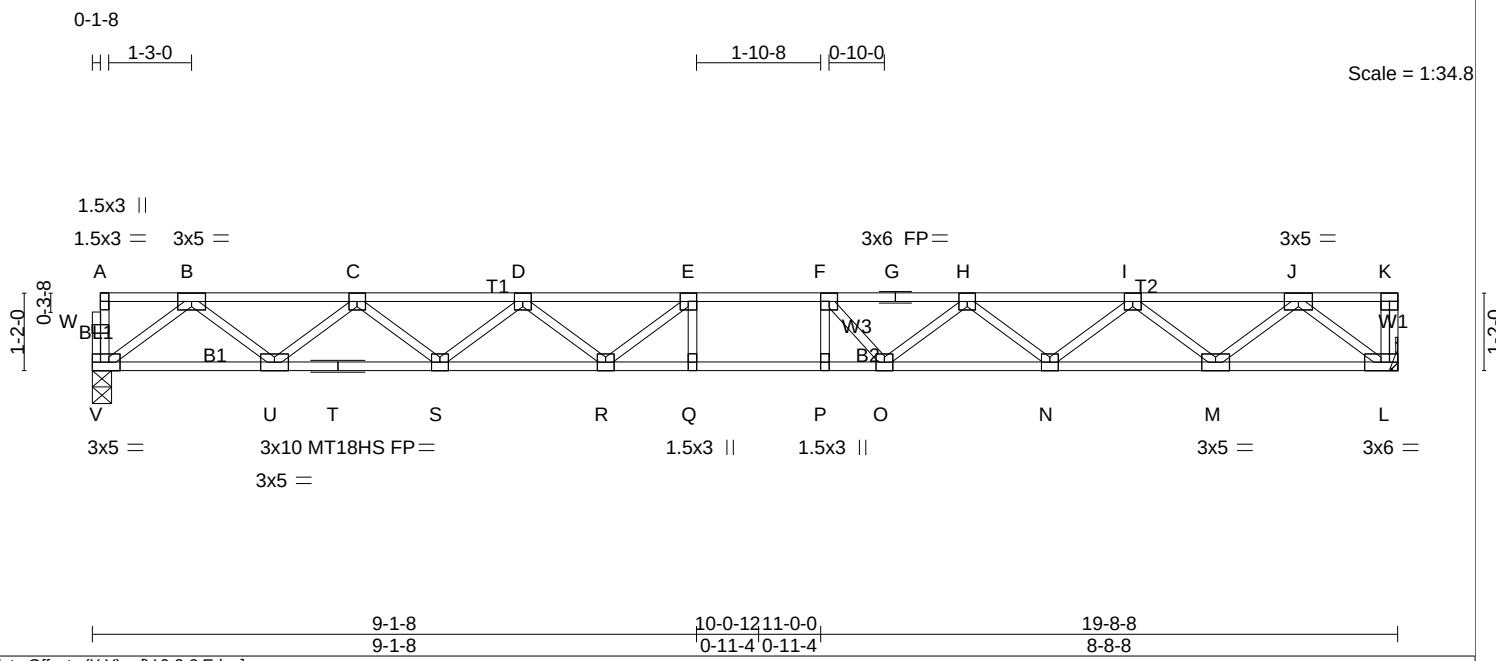

Plate Offsets (X,Y)-- [V:0-2-0,Edge]

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	0.63	Vert(LL)	-0.30	Q	>779	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.49	Q	>479	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.07	L	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 98 lb	FT = 20%F, 12%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 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 10-0-0 oc bracing, Except:
2-2-0 oc bracing: P-Q.

REACTIONS. (lb/size) V=838/0-3-8, L=843/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD V-W=-30/0, A-W=-30/0, K-L=-34/0, A-B=-2/0, B-C=-1809/0, C-D=-3026/0, D-E=-3712/0, E-F=-3907/0, F-G=-3724/0, G-H=-3724/0, H-I=-3023/0, I-J=-1810/0, J-K=0/0
BOT CHORD U-V=0/1056, T-U=0/2539, S-T=0/2539, R-S=0/3495, Q-R=0/3907, P-Q=0/3907, O-P=0/3907, N-O=0/3483, M-N=0/2542, L-M=0/1056
WEBS B-V=-1323/0, B-U=0/979, C-U=-950/0, C-S=0/634, D-S=-611/0, D-R=0/378, E-R=-460/31, E-Q=-141/122, J-L=-1325/0, J-M=0/981, I-M=-953/0, I-N=0/626, H-N=-598/0, H-O=0/422, F-O=-491/28, F-P=-131/198

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 10-0-0 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BROOKS CLASSIC
20040580F	FT5	Floor	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 13:22:05 2020 Page 1
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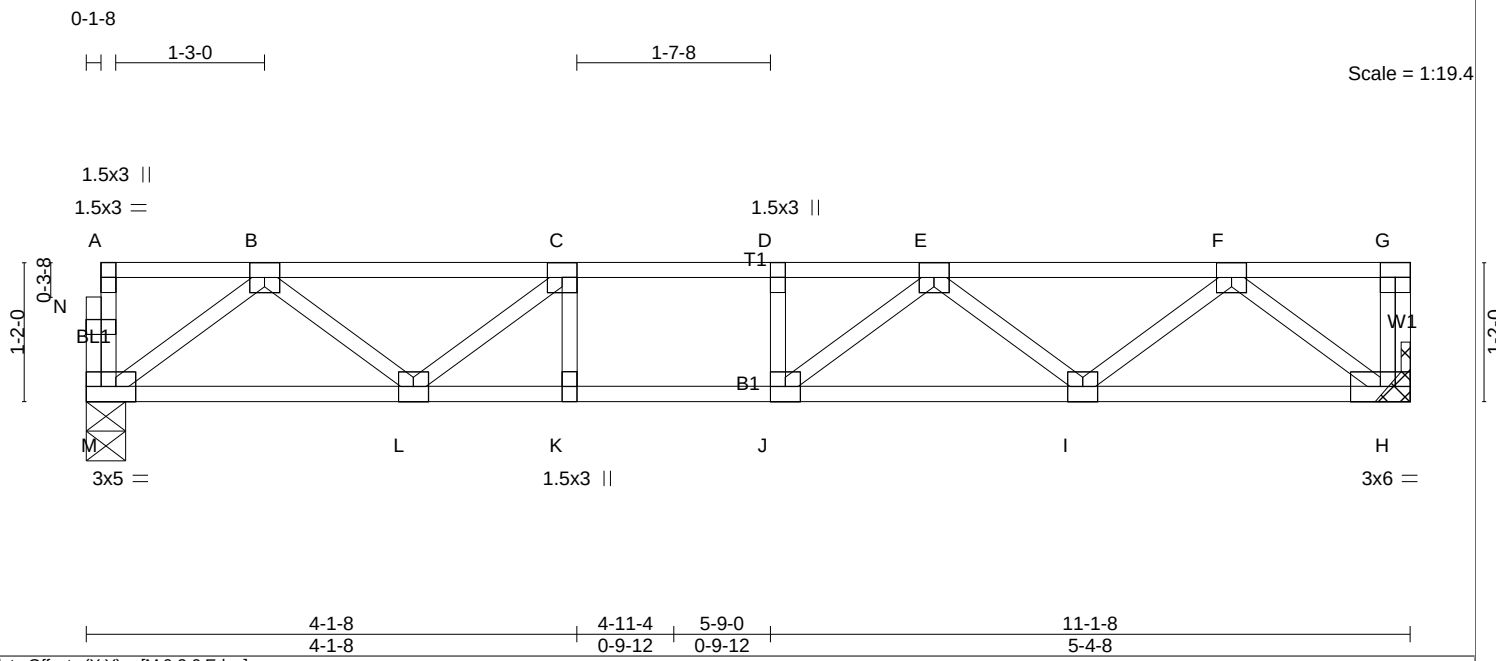

Plate Offsets (X,Y)-- [M:0-2-0,Edge]

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	0.43	Vert(LL)	-0.09	I-J	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.13	I-J	>985	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	H	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 57 lb	FT = 20%F, 12%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(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. (lb/size) M=699/0-4-0, H=707/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD M-N=-45/0, A-N=-45/0, G-H=-48/0, A-B=-3/0, B-C=-1312/0, C-D=-1798/0, D-E=-1798/0, E-F=-1317/0, F-G=0/0
BOT CHORD L-M=0/848, K-L=0/1798, J-K=0/1798, I-J=0/1727, H-I=0/858
WEBS F-H=-1076/0, B-M=-1060/0, F-I=0/598, B-L=0/604, E-I=-534/0, C-L=-633/0, E-J=-68/306, C-K=-33/130, D-J=-138/0

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 10-0-0 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BROOKS CLASSIC
20040580F	FT6	Floor	2	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 13:22:08 2020 Page 1
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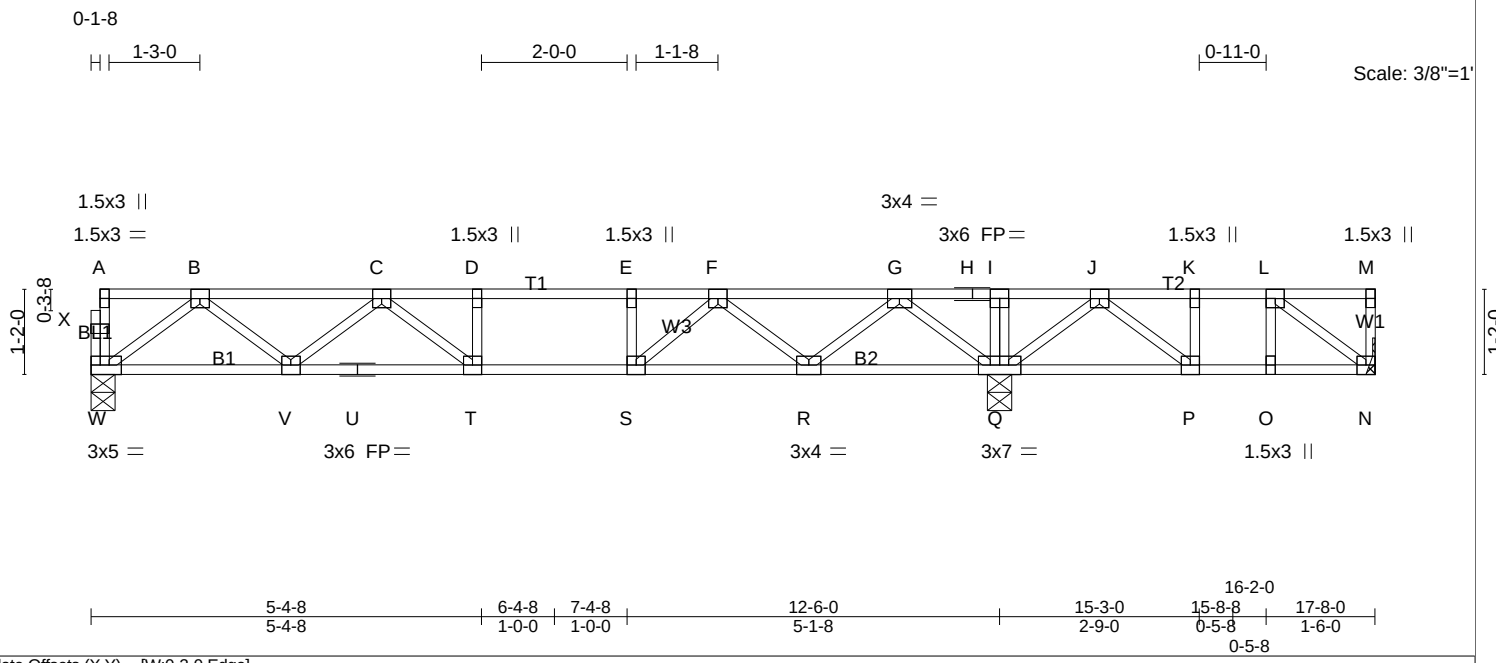

Plate Offsets (X,Y)-- [W:0-2-0,Edge]

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)	-0.11	T-V	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.17	T-V	>878	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.03	Q	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 90 lb	FT = 20%F, 12%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(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. (lb/size) W=718/0-4-0, N=141/Mechanical, Q=1405/0-4-0
Max UpliftN=-44(LC 3)
Max GravW=726(LC 10), N=239(LC 4), Q=1405(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD W-X=-43/0, A-X=-43/0, M-N=-99/0, A-B=-3/0, B-C=-1388/0, C-D=-1920/0, D-E=-1920/0, E-F=-1920/0, F-G=-884/0, G-H=0/979, H-I=0/979, I-J=0/979, J-K=-208/169, K-L=-208/169, L-M=0/0
BOT CHORD V-W=0/894, U-V=0/1823, T-U=0/1823, S-T=0/1920, R-S=0/1520, Q-R=-28/243, P-Q=-488/5, O-P=-169/208, N-O=-169/208
WEBS D-T=-162/0, E-S=-330/0, I-Q=-154/0, B-W=-1119/0, B-V=0/642, C-V=-567/0, C-T=-31/289, G-Q=-1335/0, G-R=0/848, F-R=-848/0, F-S=0/661, J-Q=-729/0, J-P=0/511, K-P=-234/0, L-N=-261/212, L-O=-87/1

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 44 lb uplift at joint N.
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 10-0-0 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BROOKS CLASSIC
20040580F	FT7	Floor	7	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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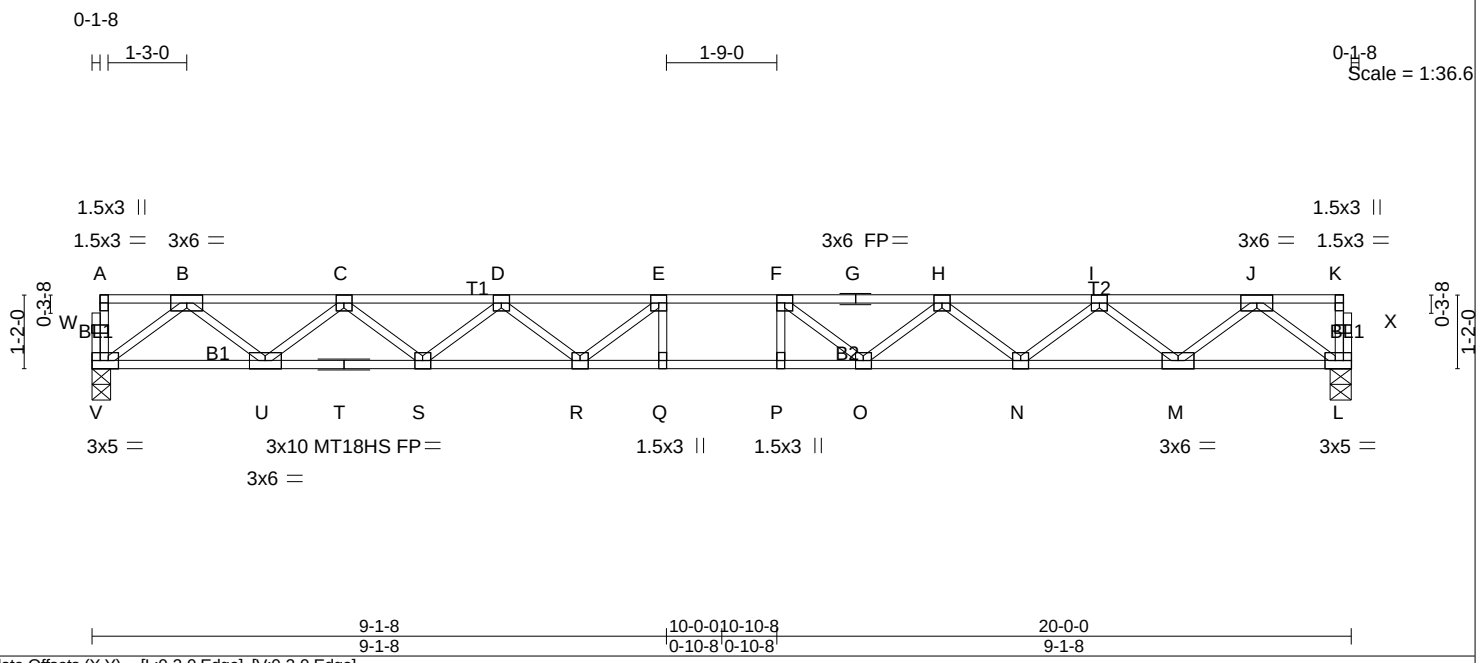

Plate Offsets (X,Y)-- [L:0-2-0,Edge], [V:0-2-0,Edge]

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	0.63	Vert(LL)	-0.31	P-Q	>757	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.51	P-Q	>465	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.08	L	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 99 lb	FT = 20%F, 12%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) V=851/0-3-8, L=851/0-4-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD V-W=-30/0, A-W=-30/0, L-X=-30/0, K-X=-30/0, A-B=-2/0, B-C=-1840/0, C-D=-3088/0, D-E=-3803/0, E-F=-4033/0, F-G=-3803/0, G-H=-3803/0, H-I=-3088/0, I-J=-1840/0, J-K=-2/0
BOT CHORD U-V=0/1073, T-U=0/2586, S-T=0/2586, R-S=0/3570, Q-R=0/4033, P-Q=0/4033, O-P=0/4033, N-O=0/3570, M-N=0/2586, L-M=0/1073
WEBS B-V=-1344/0, B-U=0/999, C-U=-970/0, C-S=0/653, D-S=-628/0, D-R=0/396, E-R=-498/11, E-Q=-127/146, J-L=-1344/0, J-M=0/999, I-M=-970/0, I-N=0/653, H-N=-628/0, H-O=0/396, F-O=-498/11, F-P=-127/146

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 10-0-0 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BROOKS CLASSIC
20040580F	FT9	Floor	12	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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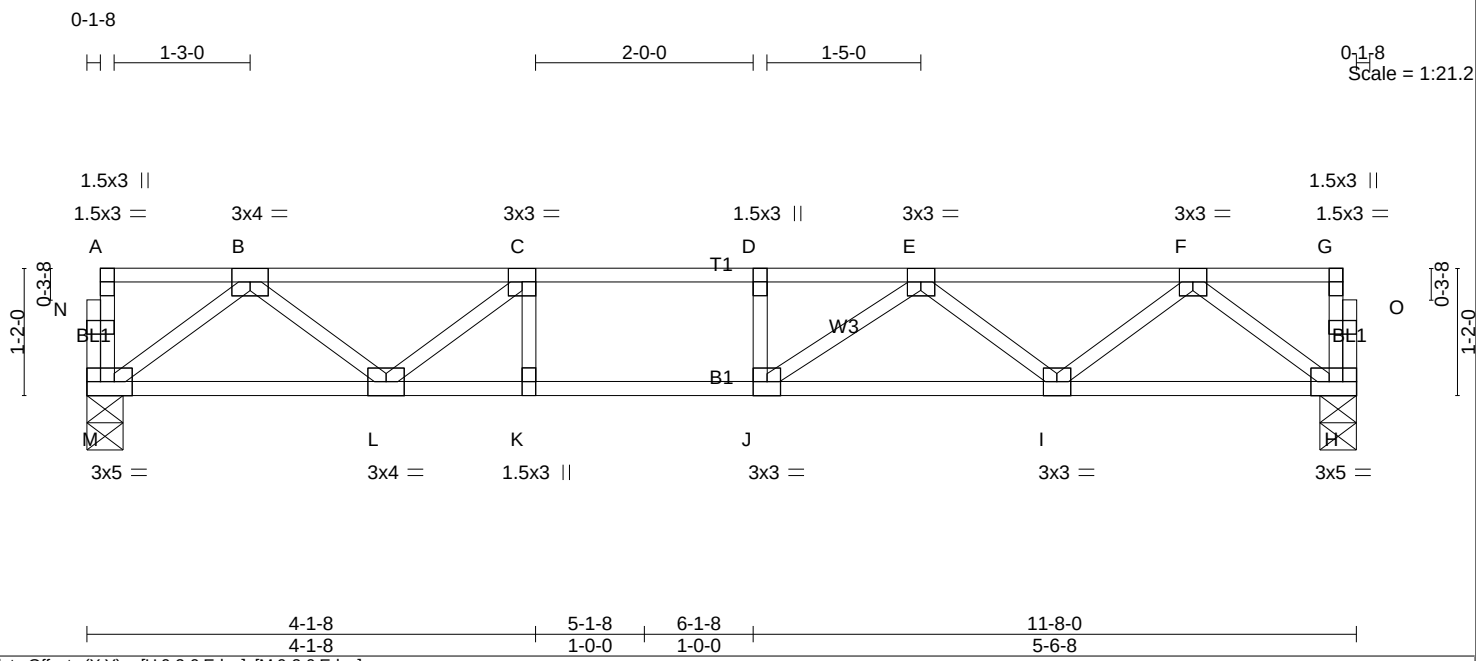

Plate Offsets (X,Y)-- [H:0-2-0,Edge], [M:0-2-0,Edge]

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	0.57	Vert(LL)	-0.13	I-J	>999	480	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.19	I-J	>723	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	H	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 58 lb	FT = 20%F, 12%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(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 2-2-0 oc bracing.

REACTIONS. (lb/size) M=735/0-4-0, H=735/0-4-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD M-N=-51/0, A-N=-51/0, H-O=-44/0, G-O=-44/0, A-B=-3/0, B-C=-1404/0, C-D=-1968/0, D-E=-1968/0, E-F=-1410/0, F-G=-3/0
BOT CHORD L-M=0/886, K-L=0/1968, J-K=0/1968, I-J=0/1856, H-I=0/905
WEBS C-K=-17/158, D-J=-167/0, B-M=-1108/0, B-L=0/674, C-L=-738/0, F-H=-1132/0, F-I=0/657, E-I=-582/0, E-J=-30/366

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 10-0-0 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BROOKS CLASSIC
20040580F	KW2	Floor Supported Gable	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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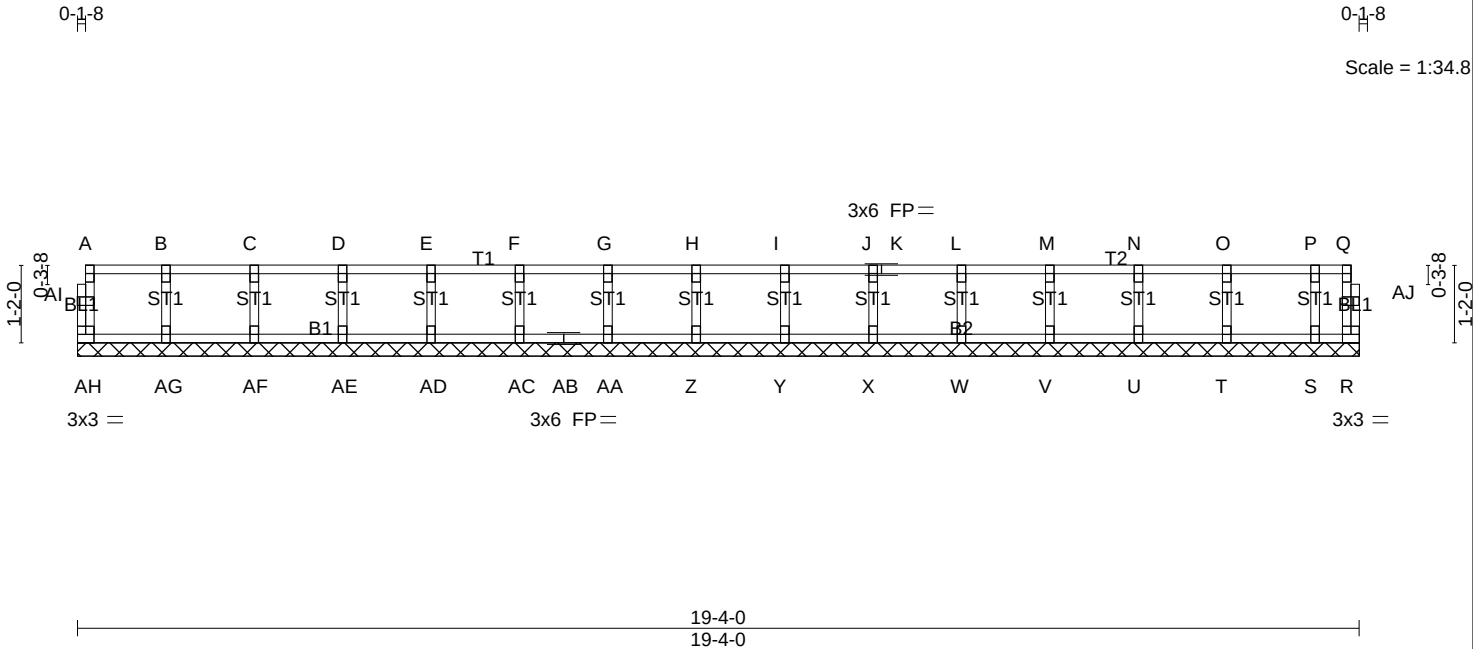

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	R	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R							Weight: 81 lb	FT = 20%F, 12%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) AH=61/19-4-0, R=18/19-4-0, AG=175/19-4-0, AF=173/19-4-0, AE=173/19-4-0, AD=173/19-4-0, AC=173/19-4-0, AA=173/19-4-0, Z=173/19-4-0, Y=173/19-4-0, X=173/19-4-0, W=173/19-4-0, V=174/19-4-0, U=171/19-4-0, T=181/19-4-0, S=125/19-4-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD AH-AI=-58/0, A-AI=-58/0, R-AJ=-10/0, Q-AJ=-9/0, A-B=-7/0, B-C=-7/0, C-D=-7/0, D-E=-7/0, E-F=-7/0, F-G=-7/0, G-H=-7/0, H-I=-7/0, I-J=-7/0, J-K=-7/0, K-L=-7/0, L-M=-7/0, M-N=-7/0, N-O=-7/0, O-P=-7/0, P-Q=-7/0
BOT CHORD AG-AH=0/7, AF-AG=0/7, AE-AF=0/7, AD-AE=0/7, AC-AD=0/7, AB-AC=0/7, AA-AB=0/7, Z-AA=0/7, Y-Z=0/7, X-Y=0/7, W-X=0/7, V-W=0/7, U-V=0/7, T-U=0/7, S-T=0/7, R-S=0/7
WEBS B-AG=-159/0, C-AF=-161/0, D-AE=-160/0, E-AD=-160/0, F-AC=-160/0, G-AA=-160/0, H-Z=-160/0, I-Y=-160/0, J-X=-160/0, L-W=-160/0, M-V=-160/0, N-U=-158/0, O-T=-166/0, P-S=-123/0

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 10-0-0 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BROOKS CLASSIC
20040580F	KW3	Floor Supported Gable	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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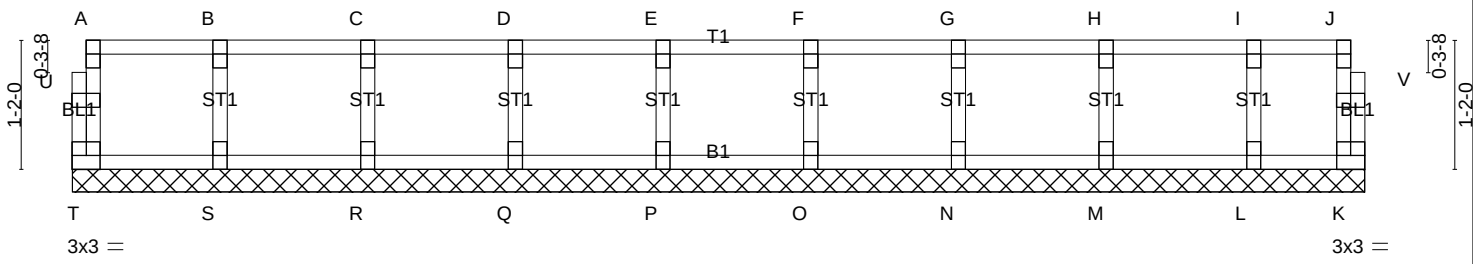

11-8-0
11-8-0

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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	K	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R							Weight: 50 lb	FT = 20%F, 12%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) T=63/11-8-0, K=44/11-8-0, S=173/11-8-0, R=174/11-8-0, Q=173/11-8-0, P=173/11-8-0, O=174/11-8-0, N=172/11-8-0, M=180/11-8-0, L=144/11-8-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD T-U=-59/0, A-U=-59/0, K-V=-38/0, J-V=-37/0, A-B=-9/0, B-C=-9/0, C-D=-9/0, D-E=-9/0, E-F=-9/0, F-G=-9/0, G-H=-9/0, H-I=-9/0, I-J=-9/0
BOT CHORD S-T=0/9, R-S=0/9, Q-R=0/9, P-Q=0/9, O-P=0/9, N-O=0/9, M-N=0/9, L-M=0/9, K-L=0/9
WEBS B-S=-158/0, C-R=-161/0, D-Q=-160/0, E-P=-160/0, F-O=-160/0, G-N=-159/0, H-M=-165/0, I-L=-136/0

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 10-0-0 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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BROOKS CLASSIC
20040580F	KW5	Floor Supported Gable	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 13:22:19 2020 Page 1
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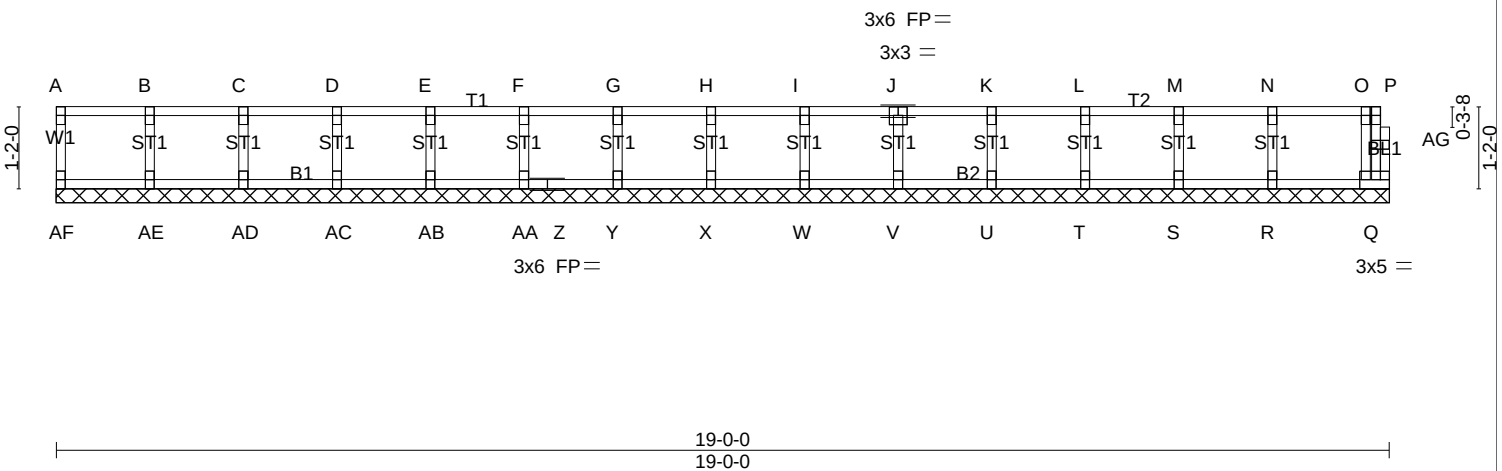

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	20.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	Q	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R							Weight: 79 lb	FT = 20%F, 12%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) AF=81/19-0-0, Q=92/19-0-0, AE=170/19-0-0, AD=174/19-0-0, AC=173/19-0-0, AB=173/19-0-0, AA=173/19-0-0, Y=173/19-0-0, X=173/19-0-0, W=173/19-0-0, V=173/19-0-0, U=173/19-0-0, T=175/19-0-0, S=168/19-0-0, R=191/19-0-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-AF=-71/0, Q-AG=0/21, P-AG=0/21, A-B=-16/0, B-C=-16/0, C-D=-16/0, D-E=-16/0, E-F=-16/0, F-G=-16/0, G-H=-16/0, H-I=-16/0, I-J=-16/0, J-K=-16/0, K-L=-16/0, L-M=-16/0, M-N=-16/0, N-O=-16/0, O-P=-1/0
BOT CHORD AE-AF=0/16, AD-AE=0/16, AC-AD=0/16, AB-AC=0/16, AA-AB=0/16, Z-AA=0/16, Y-Z=0/16, X-Y=0/16, W-X=0/16, V-W=0/16, U-V=0/16, T-U=0/16, S-T=0/16, R-S=0/16, Q-R=0/16
WEBS B-AE=-162/0, C-AD=-160/0, D-AC=-160/0, E-AB=-160/0, F-AA=-160/0, G-Y=-160/0, H-X=-160/0, I-W=-160/0, J-V=-160/0, K-U=-160/0, L-T=-161/0, M-S=-157/0, N-R=-172/0, O-Q=-110/0

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 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard