

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.77	Vert(LL) -0.10 V-W >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.41	Vert(CT) -0.16 V-W >942 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.03 O n/a n/a		
	Code IRC2015/TPI2014			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 6-0-0 oc bracing.

REACTIONS. (lb/size) X=721/0-4-0, O=289/0-4-0, R=1457/0-3-8
Max Grav X=730(LC 10), O=363(LC 4), R=1457(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD X-Y=-43/0, A-Y=-43/0, O-Z=-58/0, N-Z=-58/0, A-B=-3/0, B-C=-1395/0, C-D=-1950/0, D-E=-1950/0, E-F=-1950/0, F-G=-923/0, G-H=0/929, H-I=0/929, I-J=0/929, J-K=-480/143, K-L=-480/143, L-M=-480/143, M-N=-3/0
BOT CHORD W-X=0/899, V-W=0/1838, U-V=0/1950, T-U=0/1549, S-T=0/1549, R-S=-2/281, Q-R=-477/135, P-Q=-143/480, O-P=0/382
WEBS H-R=-164/0, B-X=-1124/0, G-R=-1334/0, B-W=0/646, G-S=0/852, C-W=-577/0, F-S=-841/0, C-V=-28/306, F-U=0/643, D-V=-165/0, E-U=-301/0, M-O=-475/0, J-R=-802/0, M-P=-189/125, J-Q=0/640, K-Q=-312/0, L-P=-84/84

- 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 19122412CS	Truss FT2	Truss Type Floor	Qty 14	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:21:56 2020 Page 1
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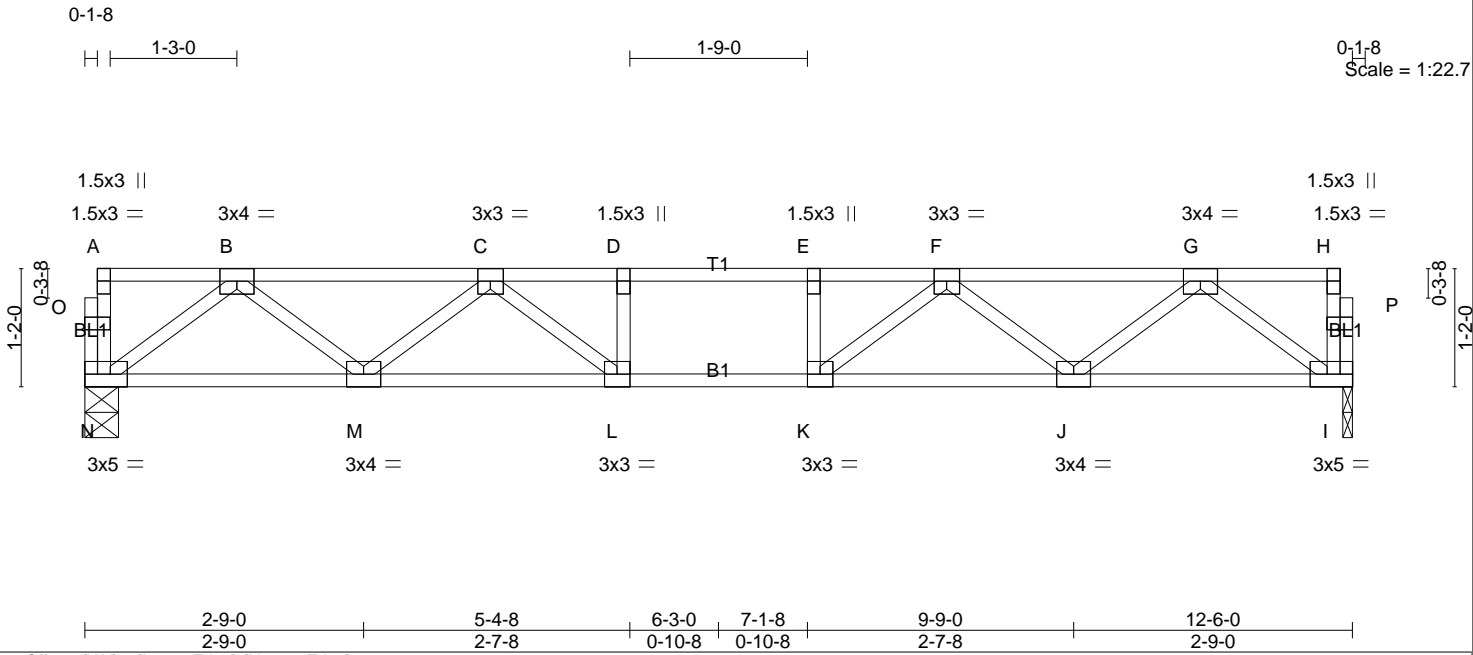


Plate Offsets (X,Y)-- [L:0-2-0,Edge], [N:0-2-0,Edge]

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 0.44	Vert(LL) -0.09 L-M >999 480	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.68	Vert(CT) -0.14 L-M >999 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.35	Horz(CT) 0.03 I n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 63 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=789/0-4-0, I=789/0-1-2

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD N-O=-42/0, A-O=-42/0, I-P=-42/0, H-P=-42/0, A-B=-3/0, B-C=-1534/0, C-D=-2300/0, D-E=-2300/0, E-F=-2300/0, F-G=-1534/0, G-H=-3/0
BOT CHORD M-N=0/974, L-M=0/2058, K-L=0/2300, J-K=0/2058, I-J=0/974
WEBS G-I=-1219/0, B-N=-1219/0, G-J=0/728, B-M=0/728, F-J=-683/0, C-M=-683/0, F-K=0/505, C-L=0/505, D-L=-243/0, E-K=-243/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) I.
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.

LOAD CASE(S) Standard

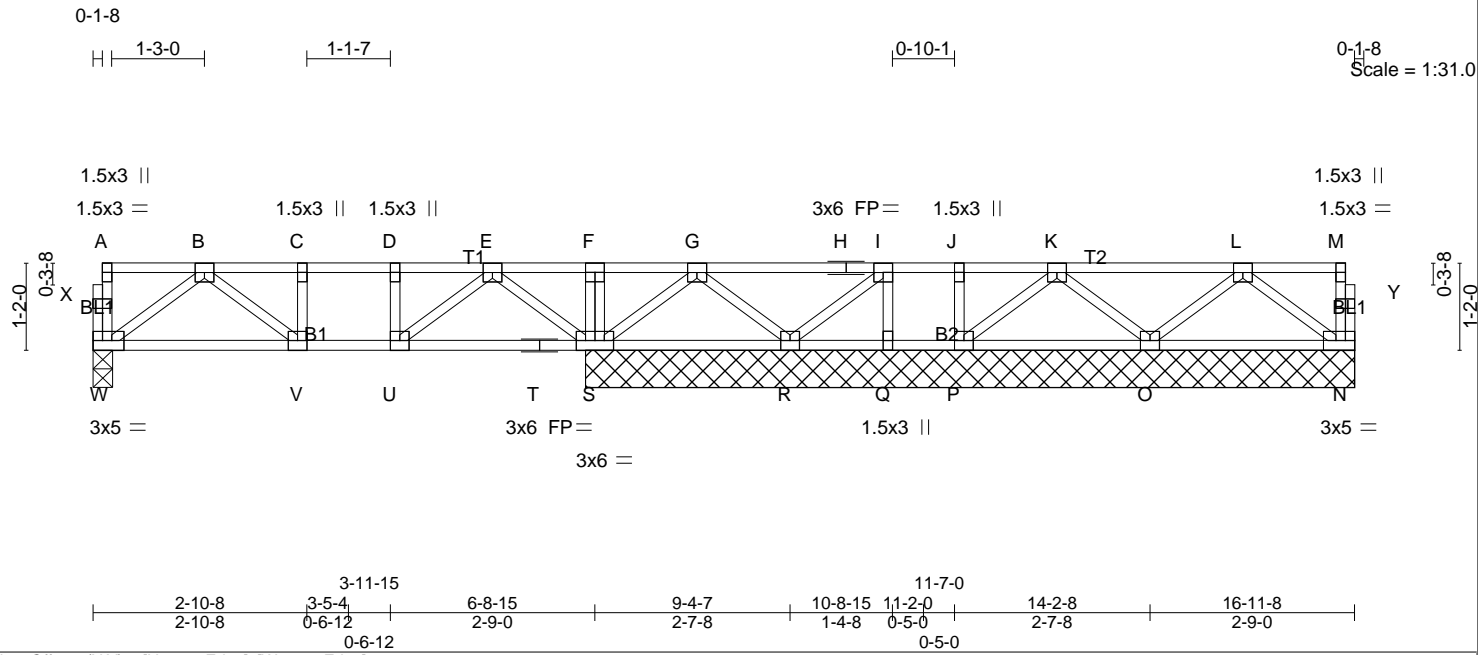


Plate Offsets (X,Y)-- [N:0-2-0,Edge], [W:0-2-0,Edge]

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 0.34	Vert(LL) -0.01 V-W >999 480	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.22	Vert(CT) -0.03 V-W >999 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.01 N n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 89 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=387/0-3-3, S=705/10-4-1, N=146/10-4-1, O=358/10-4-1, R=161/10-4-1, P=165/10-4-1, Q=235/10-4-1
Max GravW=387(LC 1), S=705(LC 1), N=147(LC 3), O=360(LC 3), R=217(LC 3), P=166(LC 4), Q=242(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD W-X=-61/0, A-X=-61/0, N-Y=39/0, M-Y=-39/0, A-B=-4/0, B-C=-560/0, C-D=-560/0, D-E=-560/0, E-F=0/291, F-G=0/291, G-H=0/104, H-I=0/104, I-J=0/38, J-K=0/38, K-L=0/75, L-M=-2/0
BOT CHORD V-W=0/414, U-V=0/560, T-U=0/282, S-T=0/282, R-S=-28/111, Q-R=-38/0, P-Q=-38/0, O-P=0/117, N-O=0/131
WEBS F-S=-138/0, B-W=-515/0, E-S=-615/0, B-V=0/189, E-U=0/355, C-V=-109/0, D-U=-189/0, L-N=-161/0, G-S=-329/0, L-O=-267/0, G-R=-243/0, K-O=-248/0, I-R=-83/0, K-P=-191/0, I-Q=-240/0, J-P=-27/0

- 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 19122412CS	Truss FT5	Truss Type Floor	Qty 9	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:22:04 2020 Page 1
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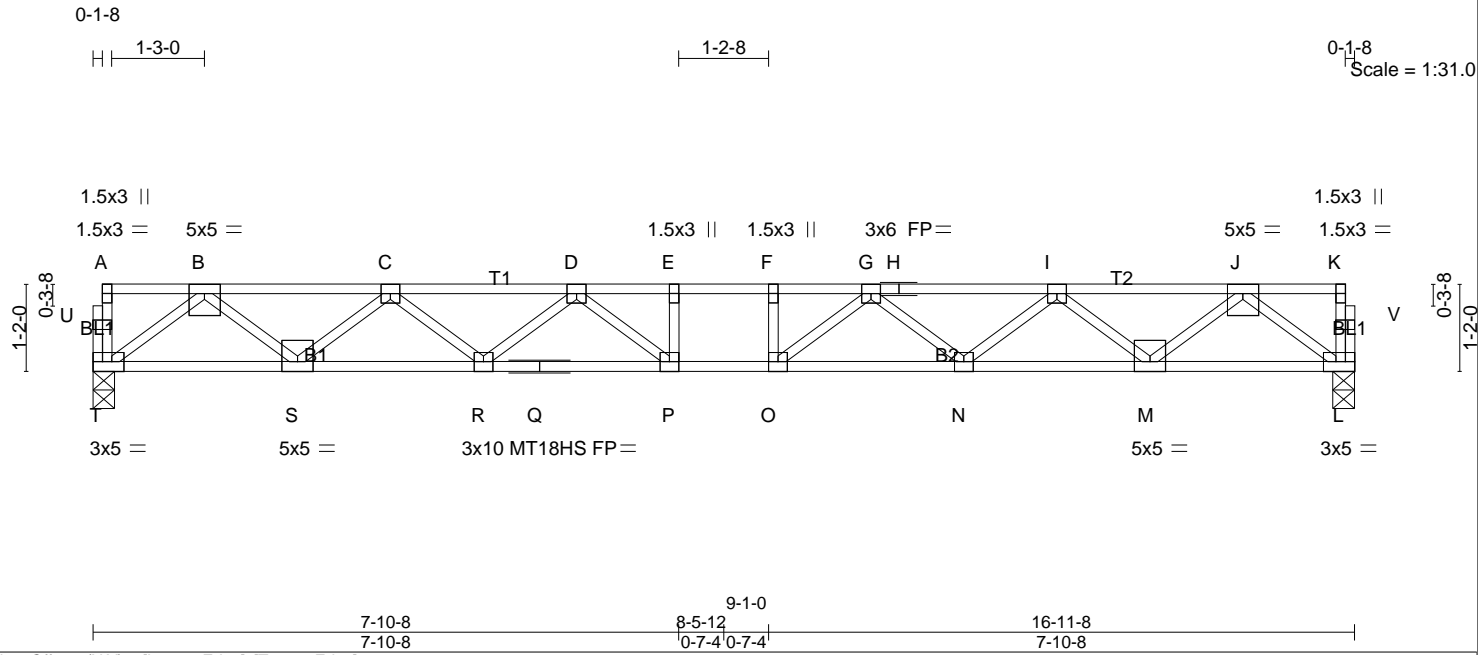


Plate Offsets (X,Y)-- [L:0-2-0,Edge], [T:0-2-0,Edge]

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 0.58	Vert(LL) -0.25 O-P >814 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.80	Vert(CT) -0.40 O-P >502 360	MT18HS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.57	Horz(CT) 0.07 L n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 85 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 5-6-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) T=1079/0-3-8, L=1079/0-3-8

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD T-U=-46/0, A-U=-46/0, L-V=-46/0, K-V=-46/0, A-B=-3/0, B-C=-2267/0, C-D=-3656/0, D-E=-4319/0, E-F=-4319/0, F-G=-4319/0, G-H=-3656/0, H-I=-3656/0, I-J=-2267/0, J-K=-3/0
 BOT CHORD S-T=0/1348, R-S=0/3153, Q-R=0/4130, P-Q=0/4130, O-P=0/4319, N-O=0/4130, M-N=0/3153, L-M=0/1348
 WEBS J-L=-1687/0, B-T=-1687/0, J-M=0/1196, B-S=0/1196, I-M=-1154/0, C-S=-1154/0, I-N=0/655, C-R=0/655, G-N=-617/0, D-R=-617/0, G-O=-94/532, D-P=-94/532, E-P=-232/0, F-O=-232/0

- 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.

LOAD CASE(S) Standard

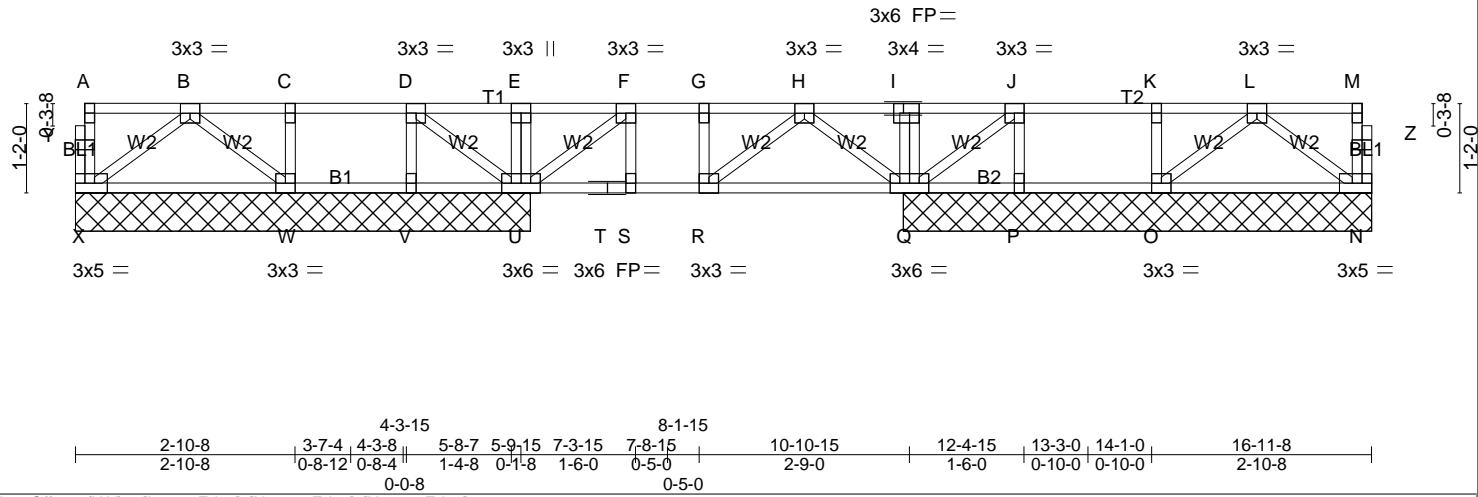


Plate Offsets (X,Y)-- [L:0-1-8,Edge], [N:0-2-0,Edge], [X:0-2-0,Edge]

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 0.23	Vert(LL) -0.01 R >999 480	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.11	Vert(CT) -0.01 Q-R >999 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.00 Q n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 89 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) X=152/5-11-7, U=394/5-11-7, W=295/5-11-7, V=175/5-11-7, N=125/6-1-8, Q=609/6-1-8, O=336/6-1-8, P=71/6-1-8
Max GravX=158(LC 10), U=397(LC 9), W=300(LC 9), V=212(LC 10), N=140(LC 9), Q=621(LC 10), O=339(LC 10), P=148(LC 9)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD X-Y=-64/0, A-Y=-64/0, N-Z=-65/0, M-Z=-65/0, A-B=-4/0, B-C=-3/24, C-D=-3/24, D-E=-10/78, E-F=-10/78, F-G=-236/0, G-H=-236/0, H-I=0/281, I-J=0/294, J-K=0/84, K-L=0/84, L-M=-4/0
BOT CHORD W-X=0/114, V-W=-24/3, U-V=-24/3, T-U=0/236, S-T=0/236, R-S=0/236, Q-R=0/105, P-Q=-84/0, O-P=-84/0, N-O=0/89
WEBS E-U=-174/0, I-Q=-165/0, B-X=-138/0, D-U=-66/8, B-W=-158/0, C-W=-174/0, D-V=-200/0, H-Q=-450/0, F-U=-338/0, H-R=0/167, F-S=0/35, G-R=-106/0, L-N=-107/0, J-Q=-259/0, L-O=-191/0, J-P=-141/0, K-O=-190/0

- 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 10-0-0 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

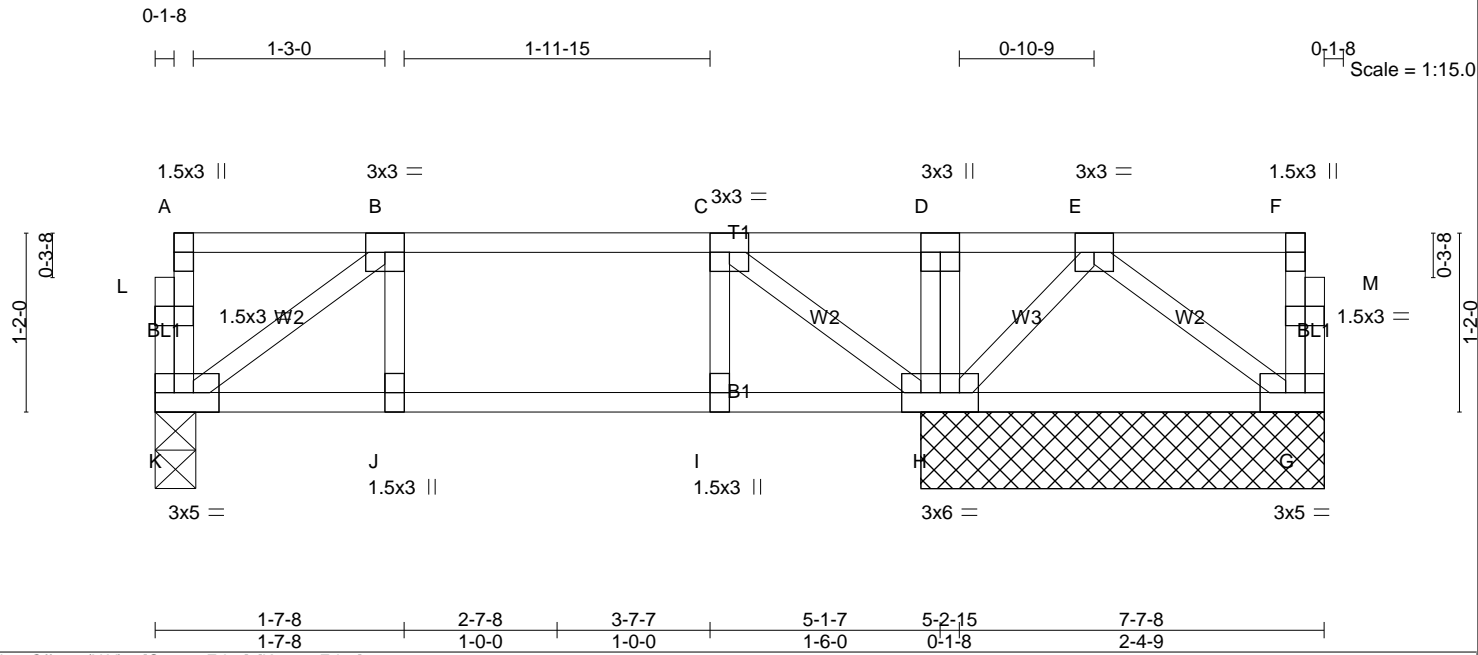


Plate Offsets (X,Y)-- [G:0-2-0,Edge], [K:0-2-0,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.23	Vert(LL) -0.01 J >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.12	Vert(CT) -0.01 J >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00 G n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 42 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) K=310/0-3-3, G=135/2-7-9, H=499/2-7-9
Max GravK=311(LC 3), G=171(LC 3), H=533(LC 4)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD K-L=-58/0, A-L=-58/0, G-M=-65/0, F-M=-65/0, A-B=-3/0, B-C=-340/0, C-D=-56/92, D-E=-56/91, E-F=-4/0
BOT CHORD J-K=0/340, I-J=0/340, H-I=0/340, G-H=0/132
WEBS D-H=-119/0, B-K=-415/0, C-H=-440/0, B-J=0/17, C-I=0/24, E-G=-161/0, E-H=-186/0

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 10-0-0 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.

LOAD CASE(S) Standard

Job 19122412CS	Truss FT8	Truss Type Floor	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:22:16 2020 Page 1
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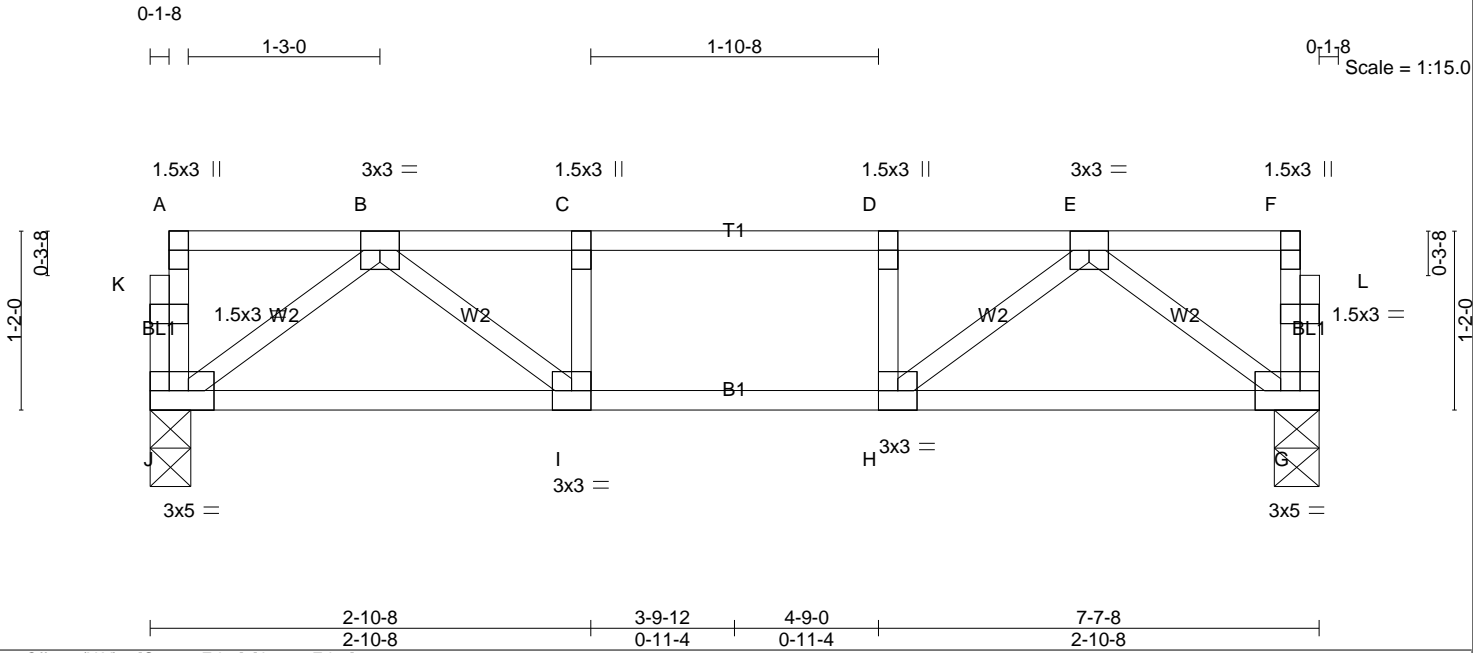


Plate Offsets (X,Y)-- [G:0-2-0,Edge], [J:0-2-0,Edge]

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 0.31	Vert(LL) -0.03 G-H >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.30	Vert(CT) -0.04 I-J >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.01 G n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 39 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) J=472/0-3-3, G=472/0-3-8

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD J-K=-67/0, A-K=-67/0, G-L=-67/0, F-L=-67/0, A-B=-4/0, B-C=-818/0, C-D=-818/0, D-E=-818/0, E-F=-4/0
BOT CHORD I-J=0/523, H-I=0/818, G-H=0/523
WEBS E-G=-650/0, B-J=-650/0, E-H=0/419, B-I=0/419, C-I=-214/0, D-H=-214/0

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 10-0-0 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 19122412CS	Truss FT9	Truss Type FLOOR	Qty 11	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

Job Reference (optional)
8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:22:20 2020 Page 1
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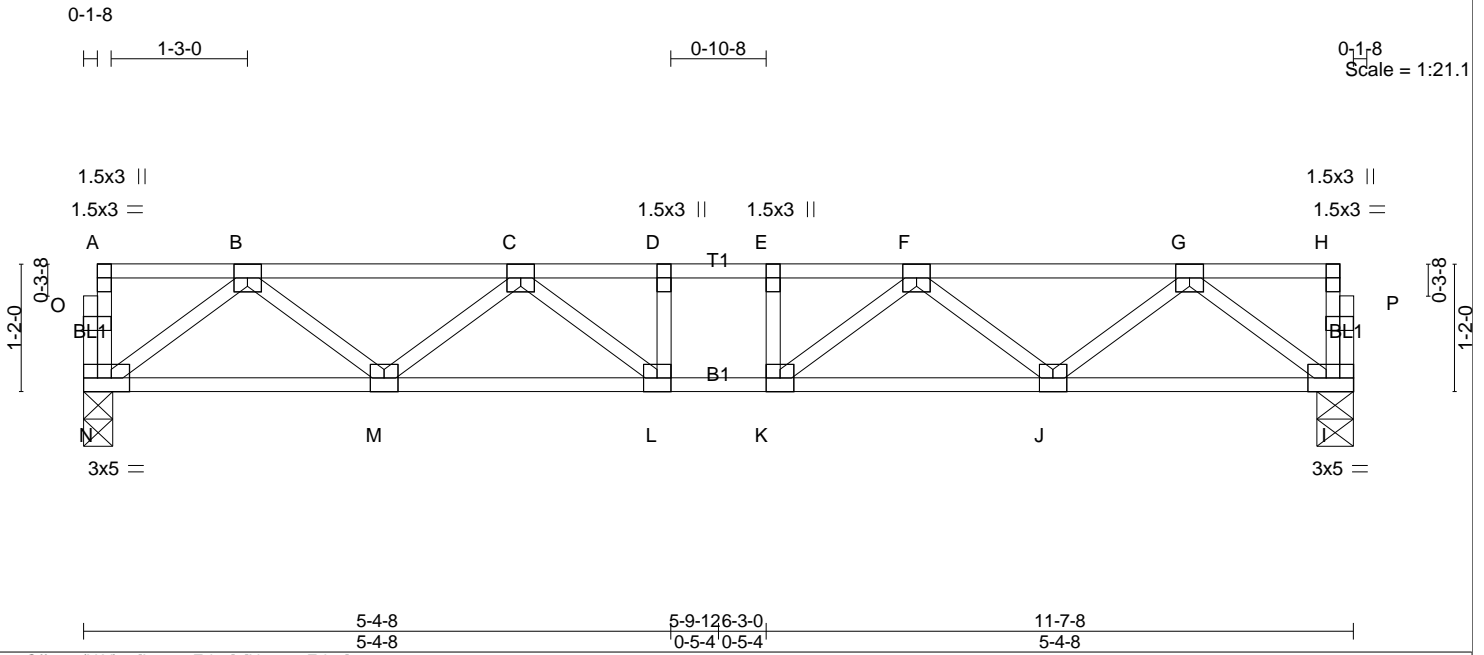


Plate Offsets (X,Y)-- [L:0-2-0,Edge], [N:0-2-0,Edge]

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 0.33	Vert(LL) -0.06 L >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.54	Vert(CT) -0.10 L >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.03 l n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 60 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=732/0-3-3, I=732/0-4-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD N-O=-42/0, A-O=-42/0, I-P=-42/0, H-P=-42/0, A-B=-3/0, B-C=-1392/0, C-D=-2000/0, D-E=-2000/0, E-F=-2000/0, F-G=-1392/0, G-H=-3/0
BOT CHORD M-N=0/899, L-M=0/1851, K-L=0/2000, J-K=0/1851, I-J=0/899
WEBS G-I=-1124/0, B-N=-1124/0, G-J=0/642, B-M=0/642, F-J=-597/0, C-M=-597/0, F-K=-17/356, C-L=-17/356, D-L=-161/0, E-K=-161/0

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.

LOAD CASE(S) Standard

Job 19122412CS	Truss FT10	Truss Type Floor	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:22:24 2020 Page 1
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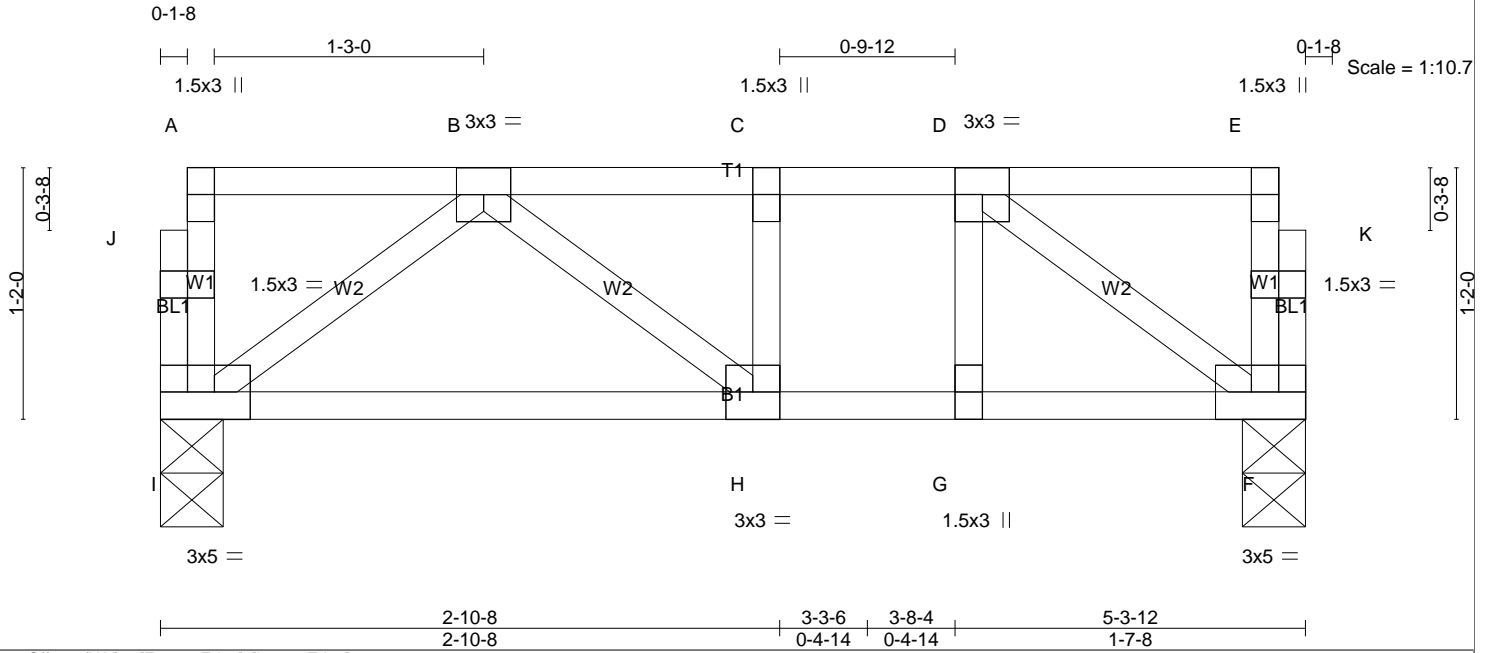


Plate Offsets (X,Y)-- [F:0-2-0,Edge], [I:0-2-0,Edge]

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 0.20	Vert(LL) -0.01 H-I >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.23	Vert(CT) -0.03 H-I >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.00 F n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 30 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 5-3-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) I=322/0-3-8, F=322/0-3-8

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD I-J=-58/0, A-J=-58/0, F-K=-66/0, E-K=-66/0, A-B=-3/0, B-C=-378/0, C-D=-378/0, D-E=-4/0
BOT CHORD H-I=0/330, G-H=0/378, F-G=0/378
WEBS B-I=409/0, B-H=0/114, C-H=-50/0, D-F=-462/0, D-G=0/67

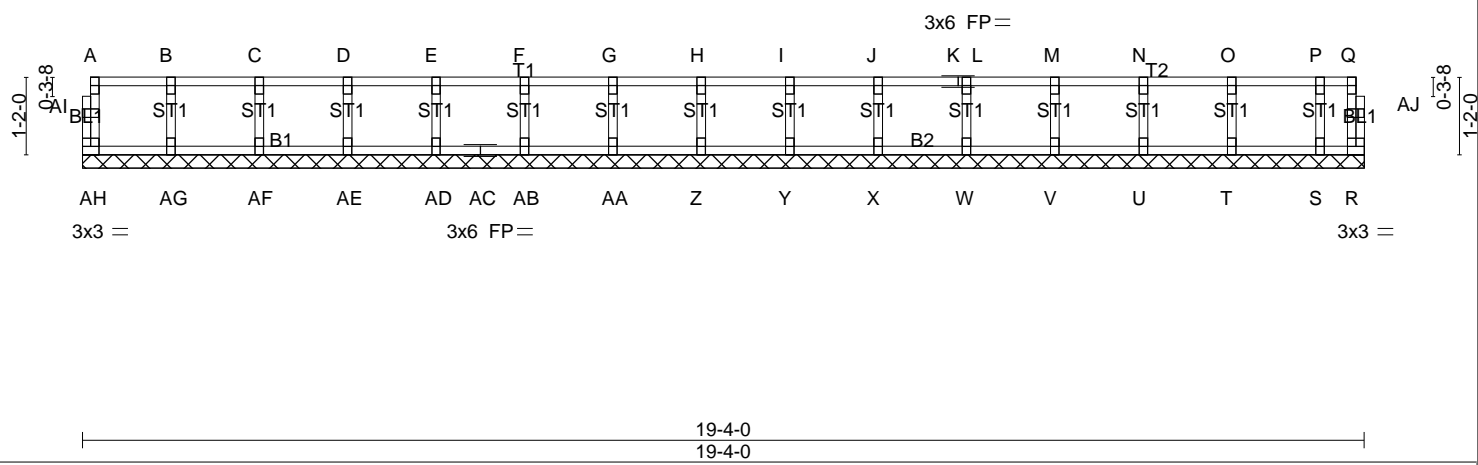
NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened 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 19122412CS	Truss KW1	Truss Type Floor Supported Gable	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:22:28 2020 Page 1
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0-1-8 0-1-8
 Scale = 1:34.8



LOADING (psf) TCLL 40.0 TCDL 20.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.10 BC 0.02 WB 0.04 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 R n/a n/a	PLATES GRIP MT20 244/180 Weight: 81 lb FT = 20%F, 12%E
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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.
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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, AB=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-AB=-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 19122412CS	Truss KW2	Truss Type Floor Supported Gable	Qty 1	Ply 1	288 NC2015
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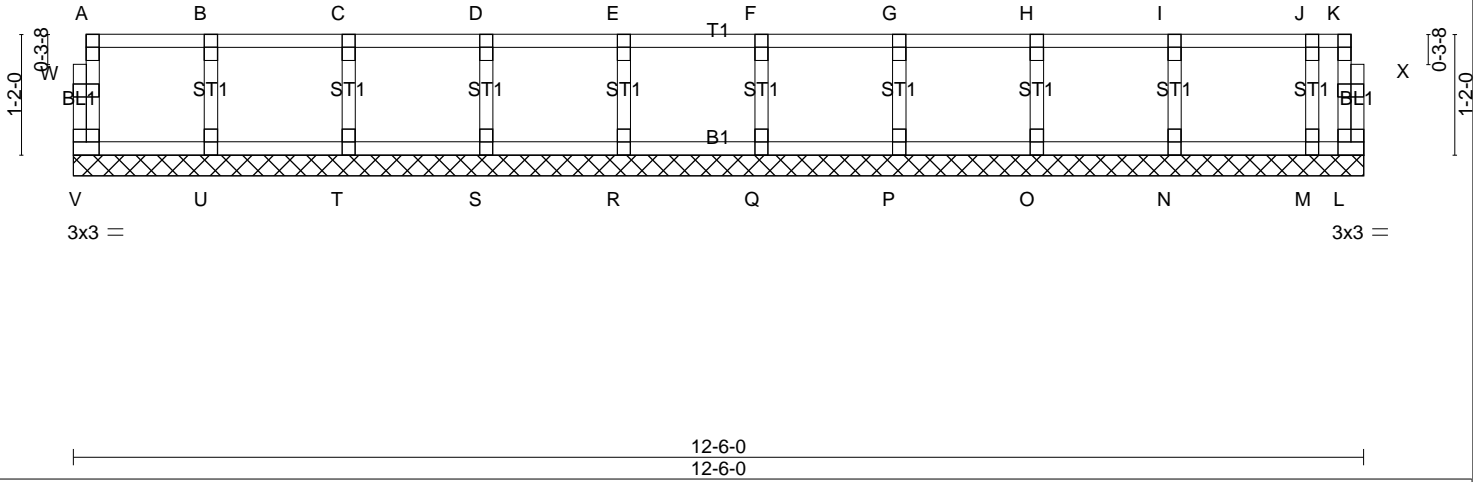
UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:22:32 2020 Page 1
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0-1-8

0-1-8

Scale = 1:22.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.10	in (loc) l/def L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.03	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 L n/a n/a		
	Code IRC2015/TPI2014			Weight: 54 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) V=62/12-6-0, L=5/12-6-0, U=174/12-6-0, T=174/12-6-0, S=173/12-6-0, R=173/12-6-0, Q=173/12-6-0, P=174/12-6-0, O=171/12-6-0, N=181/12-6-0, M=117/12-6-0

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD V-W=-59/0, A-W=-59/0, L-X=0/8, K-X=0/9, A-B=-8/0, B-C=-8/0, C-D=-8/0, D-E=-8/0, E-F=-8/0, F-G=-8/0, G-H=-8/0, H-I=-8/0, I-J=-8/0, J-K=-8/0
BOT CHORD U-V=0/8, T-U=0/8, S-T=0/8, R-S=0/8, Q-R=0/8, P-Q=0/8, O-P=0/8, N-O=0/8, M-N=0/8, L-M=0/8
WEBS B-U=-158/0, C-T=-161/0, D-S=-160/0, E-R=-160/0, F-Q=-160/0, G-P=-160/0, H-O=-158/0, I-N=-166/0, J-M=-121/0

- 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.

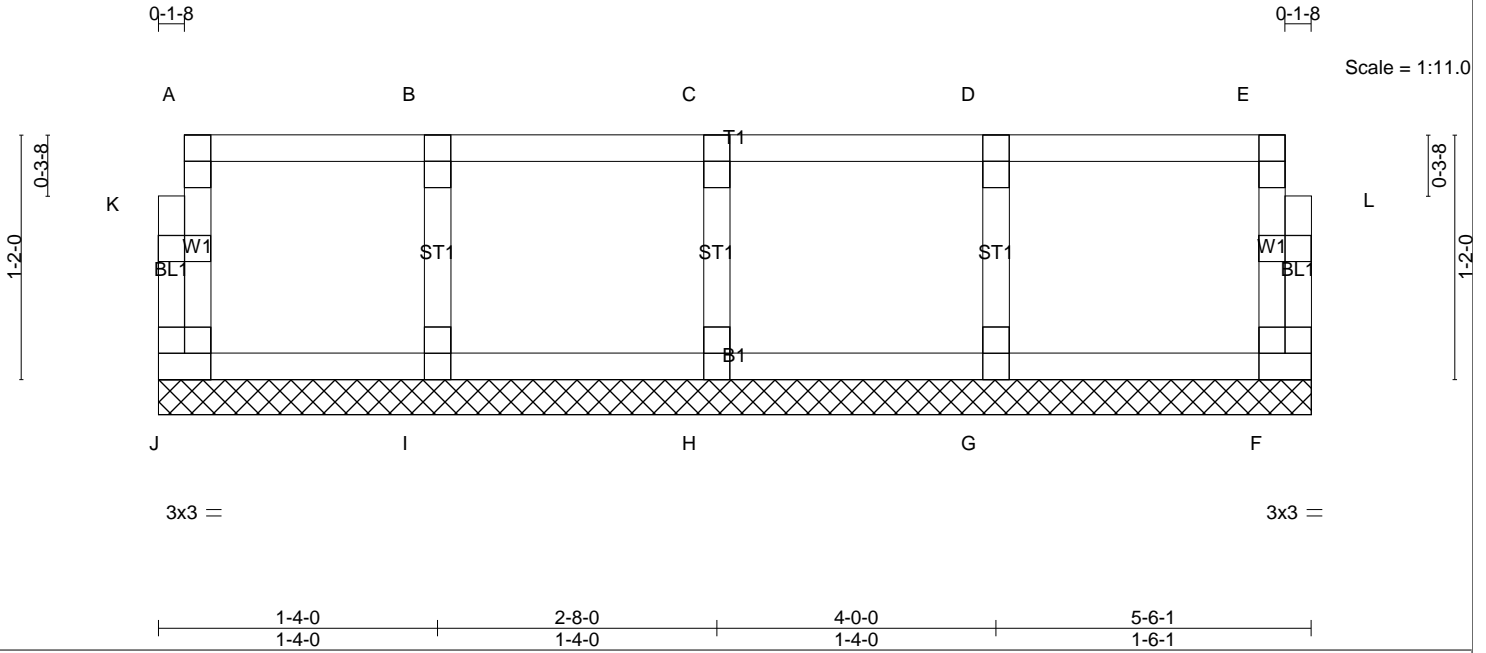
LOAD CASE(S) Standard

Job 19122412CS	Truss KW3	Truss Type GABLE	Qty 1	Ply 1	288 NC2015
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Job Reference (optional)

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:22:36 2020 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 F n/a n/a		
	Code IRC2015/TPI2014			Weight: 25 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-6-1 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) J=70/5-6-1, F=79/5-6-1, I=165/5-6-1, H=174/5-6-1, G=181/5-6-1

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD J-K=-63/0, A-K=-62/0, F-L=-73/0, E-L=-72/0, A-B=-15/0, B-C=-15/0, C-D=-15/0, D-E=-15/0
 BOT CHORD I-J=0/15, H-I=0/15, G-H=0/15, F-G=0/15
 WEBS B-I=-154/0, C-H=-160/0, D-G=-167/0

- 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 19122412CS	Truss KW4	Truss Type GABLE	Qty 1	Ply 1	288 NC2015
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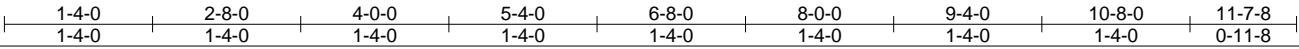
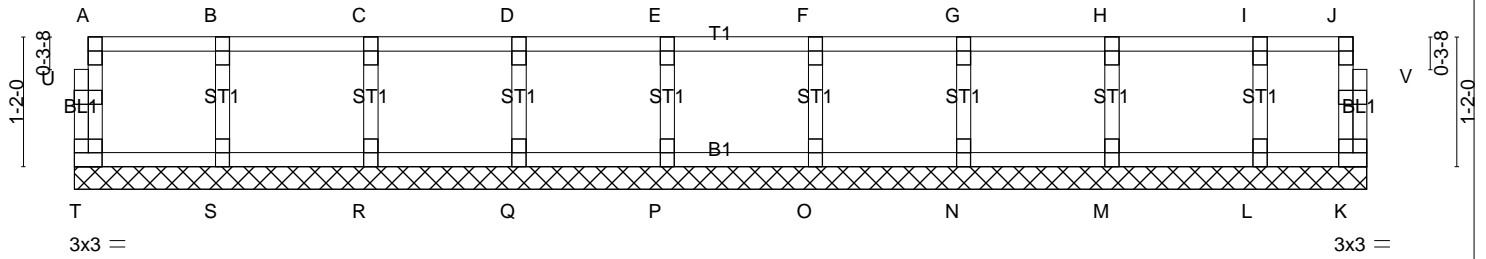
UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:22:40 2020 Page 1
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0-1-8

0-1-8

Scale = 1:20.7



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	MT20	244/190
TCDL 20.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	K	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R					Weight: 50 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) T=63/11-7-8, K=41/11-7-8, S=173/11-7-8, R=174/11-7-8, Q=173/11-7-8, P=173/11-7-8, O=174/11-7-8, N=172/11-7-8, M=180/11-7-8, L=141/11-7-8

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD T-U=-59/0, A-U=-59/0, K-V=-35/0, J-V=-34/0, A-B=-8/0, B-C=-8/0, C-D=-8/0, D-E=-8/0, E-F=-8/0, F-G=-8/0, G-H=-8/0, H-I=-8/0, I-J=-8/0
BOT CHORD S-T=0/8, R-S=0/8, Q-R=0/8, P-Q=0/8, O-P=0/8, N-O=0/8, M-N=0/8, L-M=0/8, K-L=0/8
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=-166/0, I-L=-134/0

- 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.

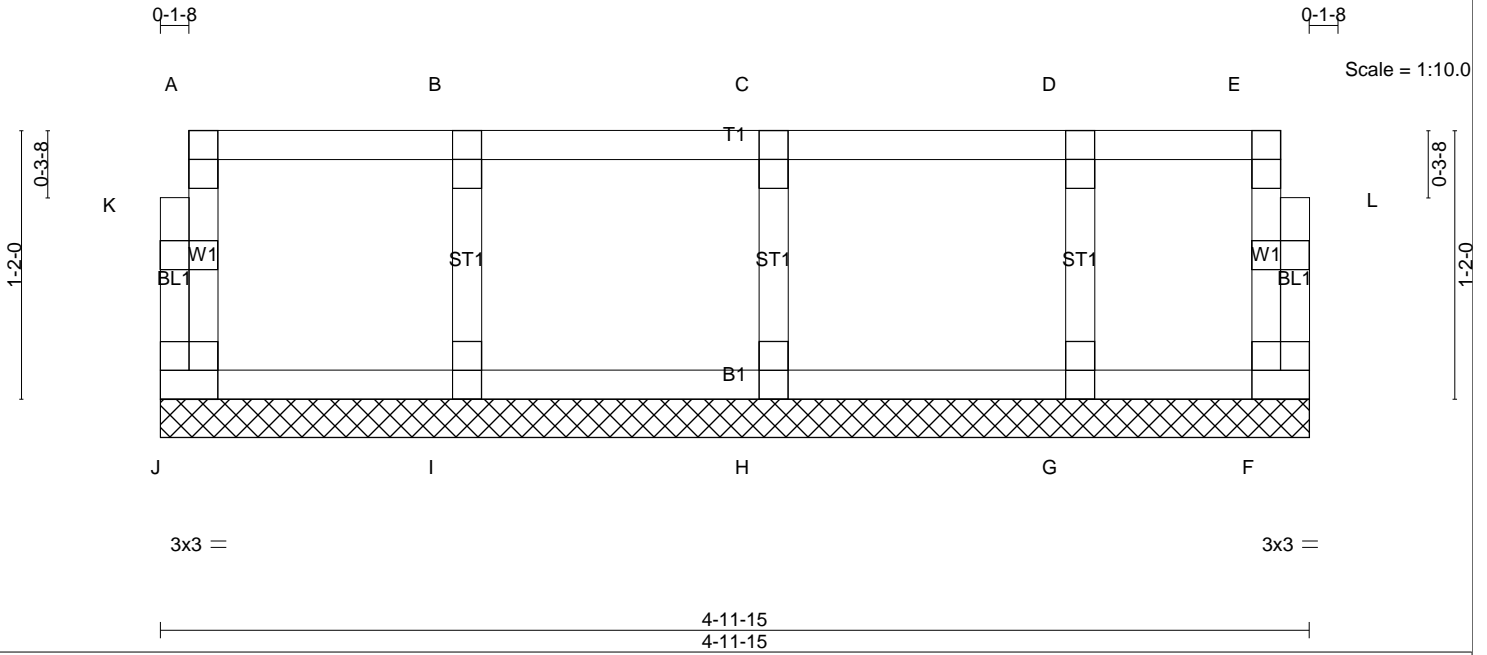
LOAD CASE(S) Standard

Job 19122412CS	Truss KW5	Truss Type Floor Supported Gable	Qty 1	Ply 1	288 NC2015
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8,320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:22:43 2020 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.10	in (loc) l/def L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 F n/a n/a		
	Code IRC2015/TPI2014			Weight: 24 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-11-15 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) J=64/4-11-15, F=44/4-11-15, I=171/4-11-15, H=180/4-11-15, G=143/4-11-15

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD J-K=-60/0, A-K=-59/0, F-L=-38/0, E-L=-37/0, A-B=-9/0, B-C=-9/0, C-D=-9/0, D-E=-9/0
BOT CHORD I-J=0/9, H-I=0/9, G-H=0/9, F-G=0/9
WEBS B-I=-156/0, C-H=-166/0, D-G=-135/0

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 3) Gable studs spaced at 1-4-0 oc.
 - 4) Non Standard bearing condition. Review required.
 - 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.

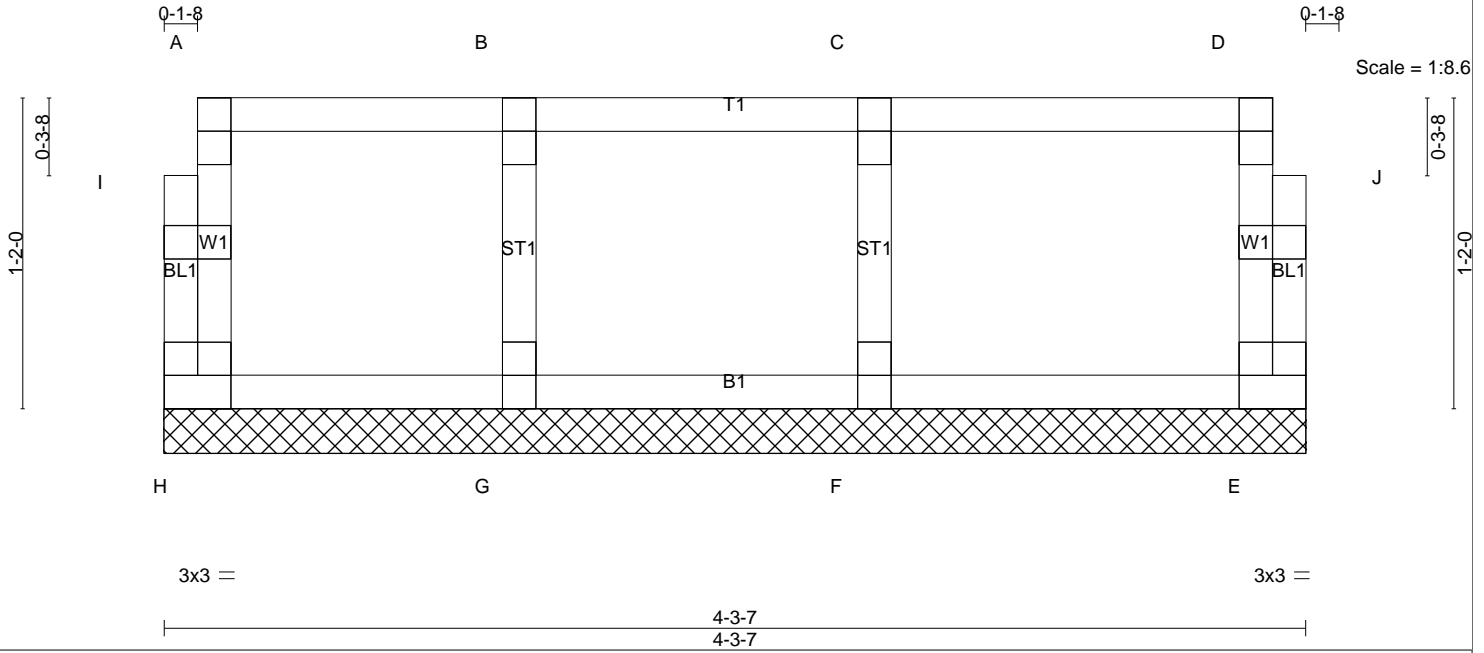
LOAD CASE(S) Standard

Job 19122412CS	Truss KW6	Truss Type Floor Supported Gable	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 10:22:47 2020 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
TCDL 20.0	Plate Grip DOL 1.00	BC 0.03	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 20 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-3-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) H=73/4-3-7, E=86/4-3-7, G=157/4-3-7, F=194/4-3-7

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD H-I=65/0, A-I=64/0, E-J=80/0, D-J=79/0, A-B=-17/0, B-C=-17/0, C-D=-17/0
 BOT CHORD G-H=0/17, F-G=0/17, E-F=0/17
 WEBS B-G=-148/0, C-F=-178/0

- 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