

Job 19093225F	Truss FG1	Truss Type Floor Girder	Qty 1	Ply 1	DANIELS CLASSIC PORCH
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.310 s May 22 2019 MiTek Industries, Inc. Fri Nov 1 11:54:49 2019 Page 1
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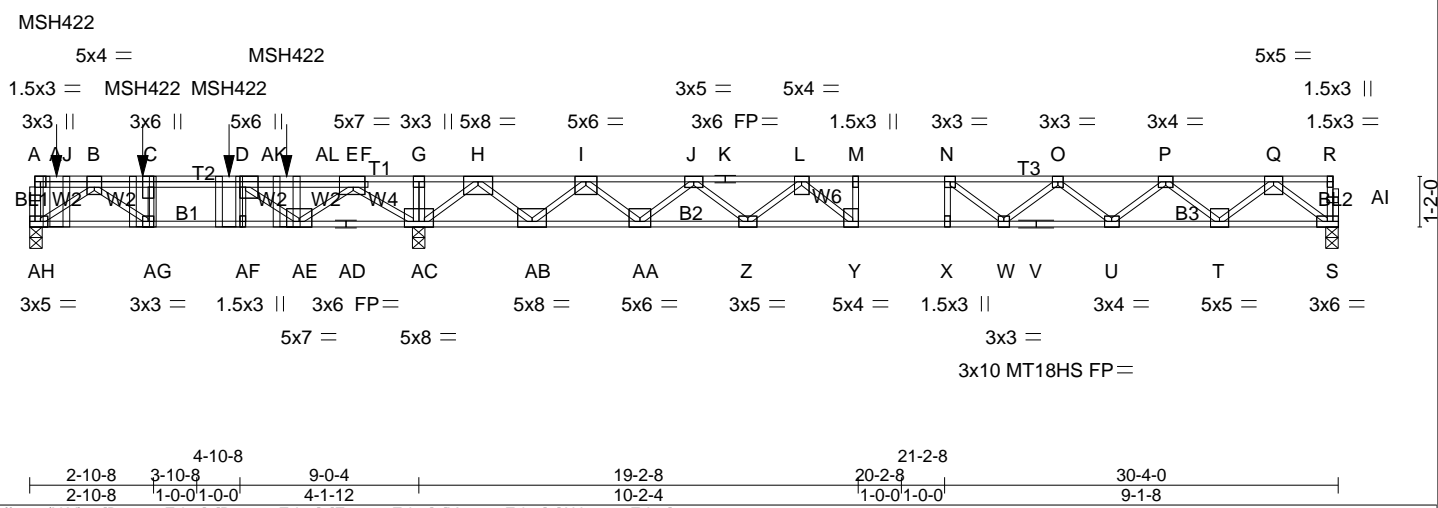


Plate Offsets (X,Y)-- [B:0-2-0,Edge], [D:0-3-0,Edge], [E:0-3-4,Edge], [Y:0-1-8,Edge], [AH:0-2-0,Edge]

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 0.81	Vert(LL) -0.38 X >672 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 1.00	Vert(CT) -0.61 W-X >417 360	MT18HS	244/190
BCLL 0.0	Rep Stress Incr NO	WB 0.94	Horz(CT) 0.06 S n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH			
				Weight: 160 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 5-5-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) AH=433/0-3-8, AC=2901/0-3-8, S=1154/0-3-8
 Max GravAH=702(LC 3), AC=2901(LC 1), S=1159(LC 4)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-AH=-159/0, S-AI=-45/0, R-AI=-45/0, A-AJ=0/0, B-AJ=0/0, B-C=-1007/374, C-AK=-1007/374, D-AK=-1007/374, D-AL=-163/1691, E-AL=-163/1691, E-F=0/4251, F-G=0/4311, G-H=0/4308, H-I=0/855, I-J=-1866/0, J-K=-3637/0, K-L=-3637/0, L-M=-4909/0, M-N=-4909/0, N-O=-4848/0, O-P=-4059/0, P-Q=-2466/0, Q-R=-3/0
 BOT CHORD AG-AH=0/739, AF-AG=-374/1007, AE-AF=-374/1007, AD-AE=-2867/0, AC-AD=-2867/0, AB-AC=-2370/0, AA-AB=-55/744, Z-AA=0/2941, Y-Z=0/4359, X-Y=0/4909, W-X=0/4909, V-W=0/4663, U-V=0/4663, T-U=0/3440, S-T=0/1457
 WEBS M-Y=-432/0, N-X=-267/49, G-AC=-332/0, B-AH=-907/0, B-AG=-702/334, C-AG=-189/365, E-AC=-1946/0, E-AE=0/1590, D-AE=-1748/0, D-AF=0/151, H-AC=-2426/0, H-AB=0/1972, I-AB=-1955/0, I-AA=0/1470, J-AA=-1408/0, J-Z=0/914, L-Z=-950/0, L-Y=0/1029, Q-S=-1824/0, Q-T=0/1314, P-T=-1267/0, P-U=0/807, O-U=-785/0, O-W=0/412, N-W=-424/276

- 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.
 - 5) CAUTION, Do not erect truss backwards.
 - 6) Use USP MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-8 from the left end to 5-11-8 to connect truss(es) fit7 (1 ply 2x4 SP), fg3 (1 ply 2x4 SP) to front face of top chord.
 - 7) Fill all nail holes where hanger is in contact with lumber.
 - 8) 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: S-AH=-10, A-R=-120

Concentrated Loads (lb)
 Vert: C=-139(F) AJ=-169(F) AK=-139(F) AL=-139(F)

Job 19093225F	Truss FG2	Truss Type Floor Girder	Qty 1	Ply 1	DANIELS CLASSIC PORCH
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.310 s May 22 2019 MiTek Industries, Inc. Fri Nov 1 11:54:49 2019 Page 1
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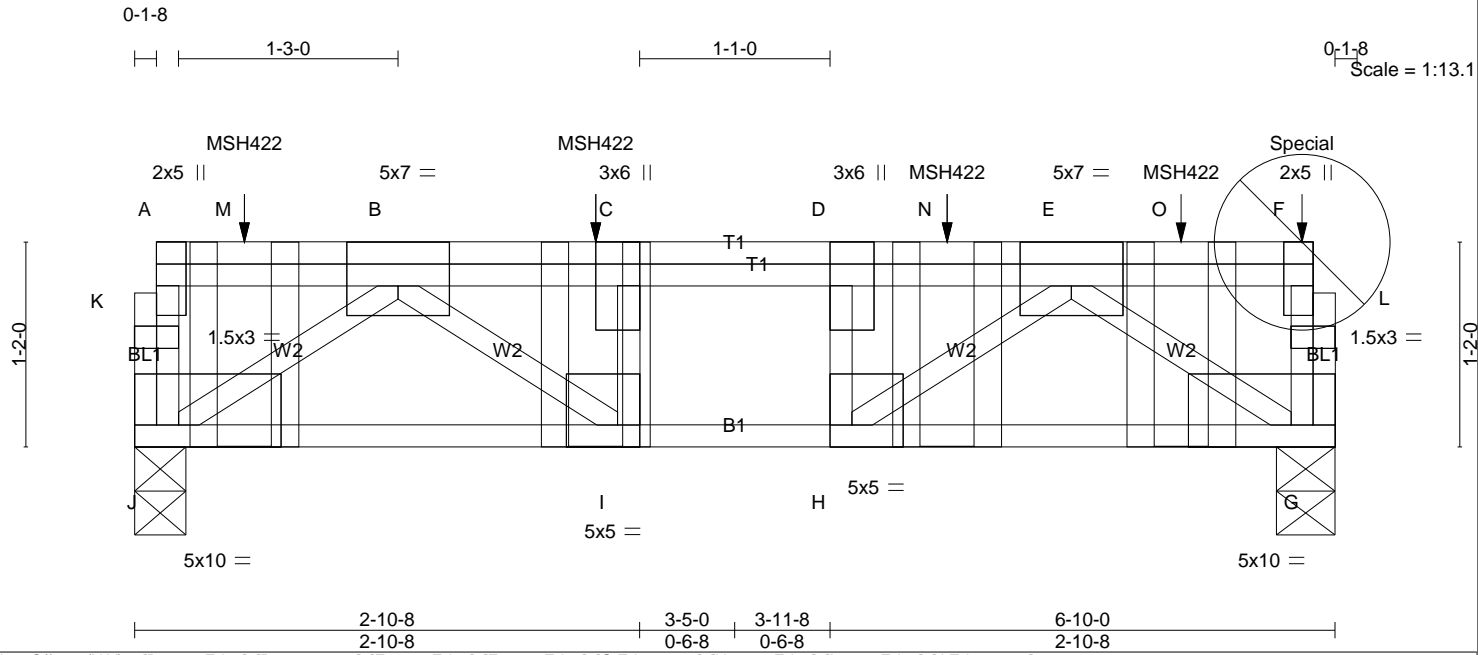


Plate Offsets (X,Y)-- [B:0-3-8,Edge], [D:0-3-0,0-0-0], [E:0-3-8,Edge], [F:0-3-0,Edge], [G:Edge,0-1-8], [H:0-1-8,Edge], [I:0-1-8,Edge], [J:Edge,0-1-8]

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 0.66	Vert(LL) -0.04 H-I >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.70	Vert(CT) -0.06 H-I >999 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.71	Horz(CT) 0.02 G n/a n/a		
BCDL 5.0	Code IRC2015/TP12014	Matrix-SH		Weight: 45 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 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

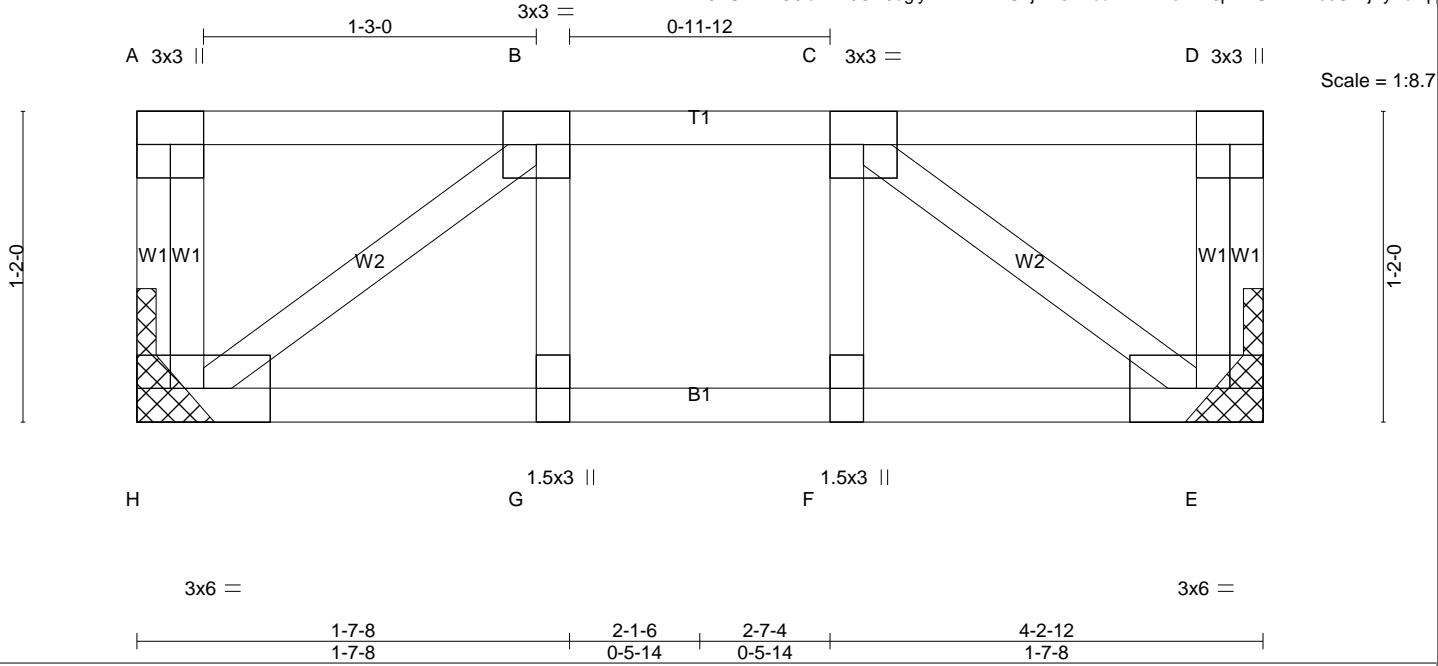
REACTIONS. (lb/size) J=2280/0-3-8, G=2572/0-4-0
 Max GravJ=2280(LC 3), G=2593(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD J-K=-723/0, A-K=-722/0, G-L=-993/0, F-L=-991/0, A-M=-46/0, B-M=-46/0, B-C=-3410/0, C-D=-3410/0, D-N=-3410/0, E-N=-3410/0, E-O=-63/0, F-O=-63/0
 BOT CHORD I-J=0/2249, H-I=0/3410, G-H=0/2290
 WEBS E-G=-2733/0, B-J=-2707/0, E-H=0/1398, B-I=0/1489, C-I=-872/0, D-H=-821/0

- 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) Use USP MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-8 from the left end to 5-11-8 to connect truss(es) #6 (1 ply 2x4 SP), #3 (1 ply 2x4 SP) to front face of top chord.
 - 5) Fill all nail holes where hanger is in contact with lumber.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 927 lb down at 6-7-12 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: G-J=-10, A-F=-120
 Concentrated Loads (lb)
 Vert: F=-887(F) C=-967(F) M=-1034(F) N=-967(F) O=-157(F)



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 0.17	Vert(LL) -0.00 G >999 480	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.12	Vert(CT) -0.01 G >999 360	
BCLL 0.0	Rep Stress Incr NO	WB 0.07	Horz(CT) 0.00 E n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 25 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 4-2-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) H=259/Mechanical, E=259/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-H=-77/0, D-E=-77/0, A-B=0/0, B-C=-247/0, C-D=0/0
 BOT CHORD G-H=0/247, F-G=0/247, E-F=0/247
 WEBS C-E=-305/0, B-H=-305/0, B-G=-11/37, C-F=-11/37

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

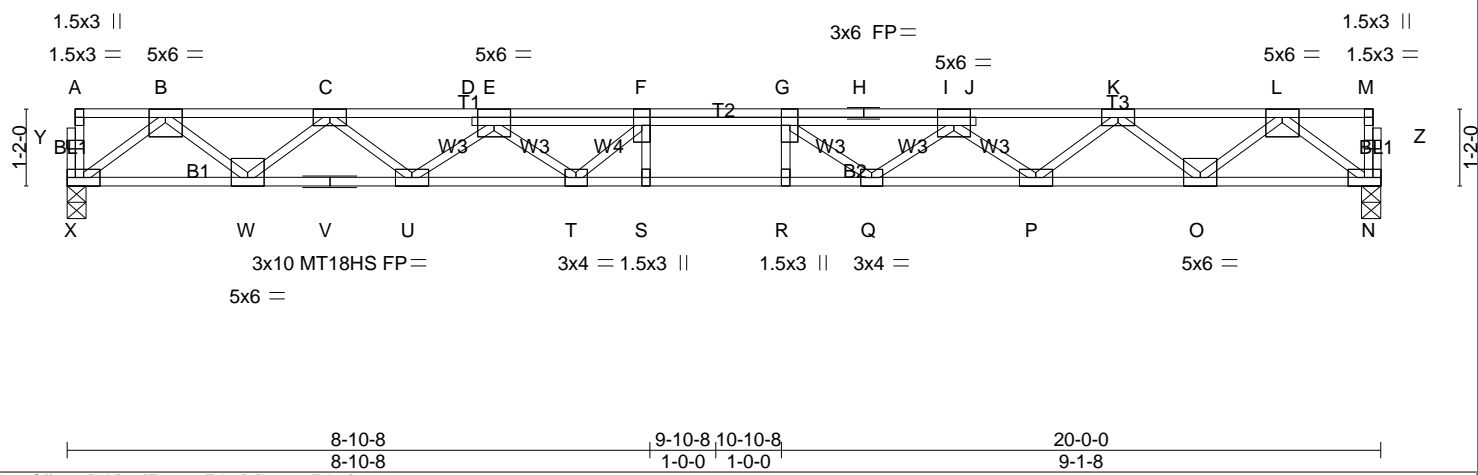
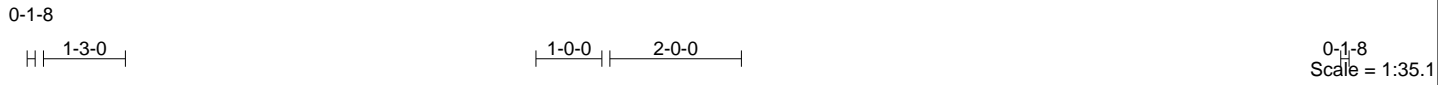


Plate Offsets (X,Y)-- [E:0-3-0,Edge], [I:0-3-0,Edge]

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 0.98	Vert(LL) -0.40 R-S >595 480	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.74	Vert(CT) -0.65 R-S >365 360	MT18HS 244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.11 N n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 109 lb FT = 20%F, 12%E

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

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

REACTIONS. (lb/size) X=1276/0-3-8, N=1276/0-3-8

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD X-Y=-41/0, A-Y=-41/0, N-Z=-40/0, M-Z=-40/0, A-B=-2/0, B-C=-2755/0, C-D=-4655/0, D-E=-4609/0, E-F=-5994/0, F-G=-6415/0, G-H=-5963/0, H-I=-5963/0, I-J=-4613/0, J-K=-4658/0, K-L=-2754/0, L-M=-2/0
BOT CHORD W-X=0/1615, V-W=0/3861, U-V=0/3861, T-U=0/5474, S-T=0/6415, R-S=0/6415, Q-R=0/6415, P-Q=0/5487, O-P=0/3857, N-O=0/1616
WEBS F-S=-91/131, G-R=-96/101, B-X=-2023/0, B-W=0/1484, C-W=-1439/0, C-U=0/1034, E-U=-1041/0, E-T=0/813, F-T=-807/0, L-N=-2025/0, L-O=0/1482, K-O=-1436/0, K-P=0/1042, I-P=-1053/0, I-Q=0/748, G-Q=-807/0

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 3x6 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

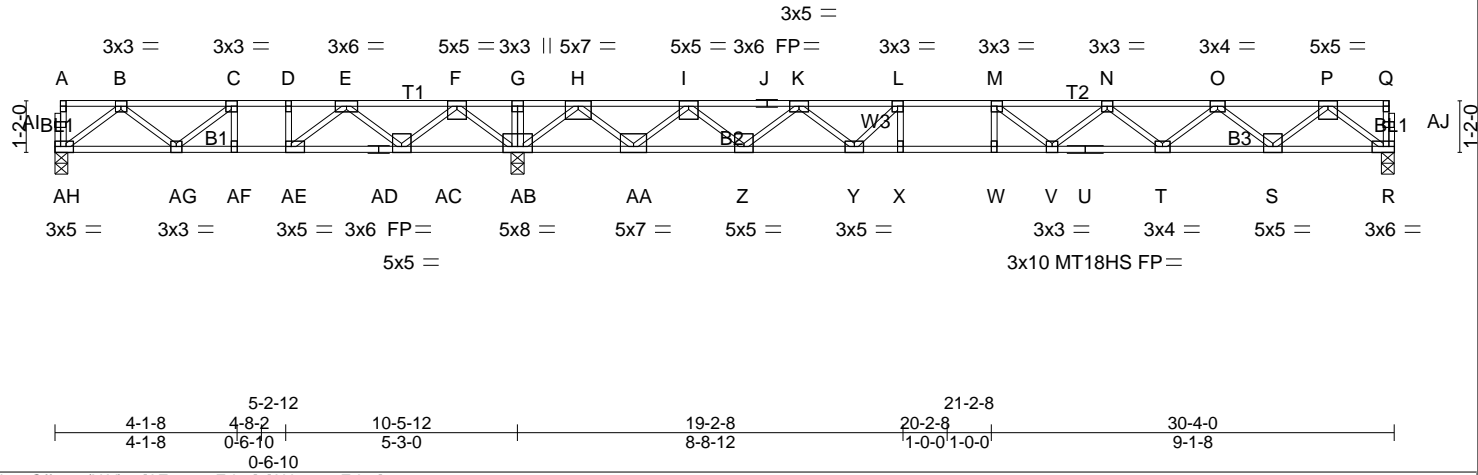


Plate Offsets (X,Y)-- [AE:0-1-8,Edge], [AH:0-2-0,Edge]

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 0.91	Vert(LL) -0.35 V-W >678 480	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 1.00	Vert(CT) -0.56 V-W >422 360	MT18HS 244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.85	Horz(CT) 0.05 R n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 151 lb FT = 20%F, 12%E

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

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

REACTIONS. (lb/size) AH=301/0-3-8, AB=2511/0-3-8, R=1084/0-3-8
 Max UpliftAH=78(LC 4)
 Max GravAH=495(LC 3), AB=2511(LC 1), R=1099(LC 4)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD AH-AI=-307, A-AI=-307, R-AJ=-44/0, Q-AJ=-44/0, A-B=-2/0, B-C=-792/370, C-D=-899/826, D-E=-899/826, E-F=0/2026, F-G=0/3574, G-H=0/3574, H-I=0/434, I-J=-2171/0, J-K=-2171/0, K-L=-3689/0, L-M=-4348/0, M-N=-4414/0, N-O=-3766/0, O-P=-2316/0, P-Q=-3/0
 BOT CHORD AG-AH=-99/603, AF-AG=-826/899, AE-AF=-826/899, AD-AE=-1447/555, AC-AD=-1447/555, AB-AC=-2565/0, AA-AB=-1754/0, Z-AA=0/1222, Y-Z=0/3071, X-Y=0/4348, W-X=0/4348, V-W=0/4348, U-V=0/4303, T-U=0/4303, S-T=0/3217, R-S=0/1379
 WEBS L-X=0/446, M-W=-361/0, G-AB=-132/0, B-AH=-755/123, B-AG=-353/246, C-AG=-136/582, C-AF=-341/0, F-AB=-1565/0, F-AC=0/1064, E-AC=-1122/0, E-AE=0/1024, D-AE=-346/0, H-AB=-2283/0, H-AA=0/1788, I-AA=-1770/0, I-Z=0/1259, K-Z=-1193/0, K-Y=0/876, L-Y=-1127/0, P-R=-1727/0, P-S=0/1220, O-S=-1172/0, O-T=0/715, N-T=-700/0, N-V=-42/302, M-V=-265/395

- 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 1.5x3 MT20 unless otherwise indicated.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint AH.
 - 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

Job 19093225F	Truss FT3	Truss Type FLOOR	Qty 1	Ply 1	DANIELS CLASSIC PORCH
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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1-2-4

2-0-0

0-1-8

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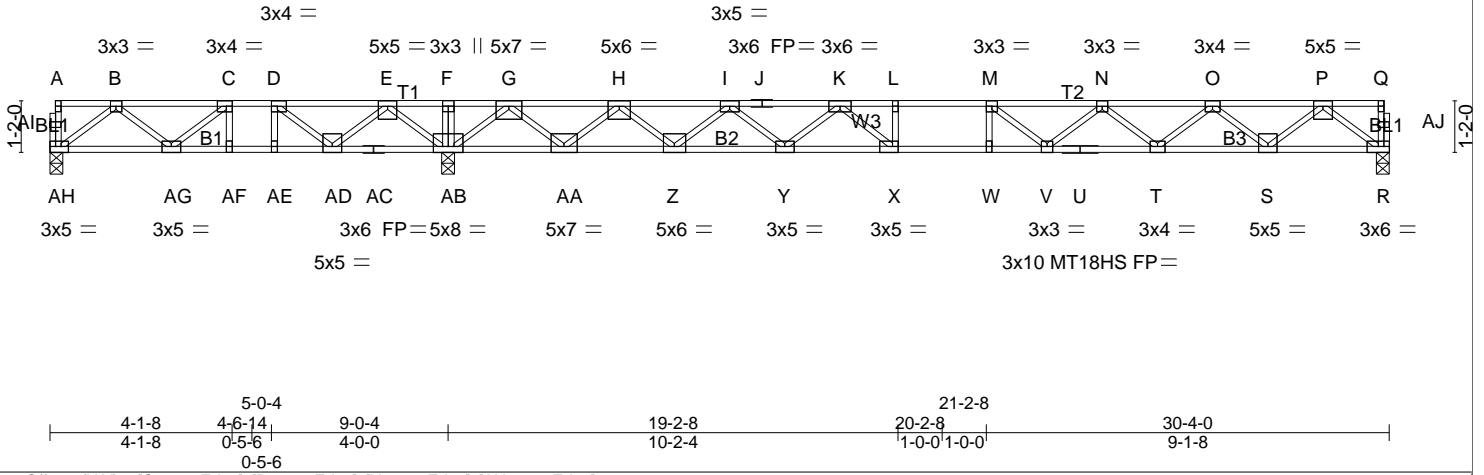


Plate Offsets (X,Y)-- [C:0-1-8,Edge], [D:0-1-8,Edge], [X:0-1-8,Edge], [AH:0-2-0,Edge]

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) -0.38 W >666 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.91	Vert(CT) -0.61 W >414 360	MT18HS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.94	Horz(CT) 0.06 R n/a n/a		
BCDL 5.0	Code IRC2015/TP12014	Matrix-SH			
				Weight: 151 lb	FT = 20%F, 12%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP SS(flat)	TOP CHORD Structural wood sheathing directly applied or 5-5-11 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) AH=59/0-3-8, AB=2682/0-3-8, R=1155/0-3-8
Max Uplift AH=271(LC 4)
Max Grav AH=352(LC 3), AB=2682(LC 1), R=1164(LC 4)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD AH-AI=-25/13, A-AI=-25/13, R-AJ=-45/0, Q-AJ=-45/0, A-B=-2/1, B-C=-432/854, C-D=-328/1602, D-E=0/2556, E-F=0/4309, F-G=0/4309, G-H=0/833, H-I=-1936/0, I-J=-3697/0, J-K=-3697/0, K-L=-4953/0, L-M=-4953/0, M-N=-4882/0, N-O=-4082/0, O-P=-2478/0, P-Q=-3/0
BOT CHORD AG-AH=-342/423, AF-AG=-1602/328, AE-AF=-1602/328, AD-AE=-1602/328, AC-AD=-3305/0, AB-AC=-3305/0, AA-AB=-2342/0, Z-AA=0/818, Y-Z=0/3007, X-Y=0/4412, W-X=0/4953, V-W=0/4953, U-V=0/4690, T-U=0/4690, S-T=0/3457, R-S=0/1463
WEBS L-X=-425/0, M-W=-261/52, F-AB=-173/0, B-AH=-529/428, B-AG=-667/11, C-AG=0/955, C-AF=-514/0, E-AB=-1591/0, E-AD=0/1229, D-AD=-1489/0, D-AE=0/534, G-AB=-2468/0, G-AA=0/1964, H-AA=-1947/0, H-Z=0/1469, I-Z=-1408/0, I-Y=0/912, K-Y=-948/0, K-X=0/1011, P-R=-1832/0, P-S=0/1321, O-S=-1274/0, O-T=0/813, N-T=-791/0, N-V=0/417, M-V=-432/258

- 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 1.5x3 MT20 unless otherwise indicated.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 271 lb uplift at joint AH.
 - 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) 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.
 - 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



Scale = 1:32.5

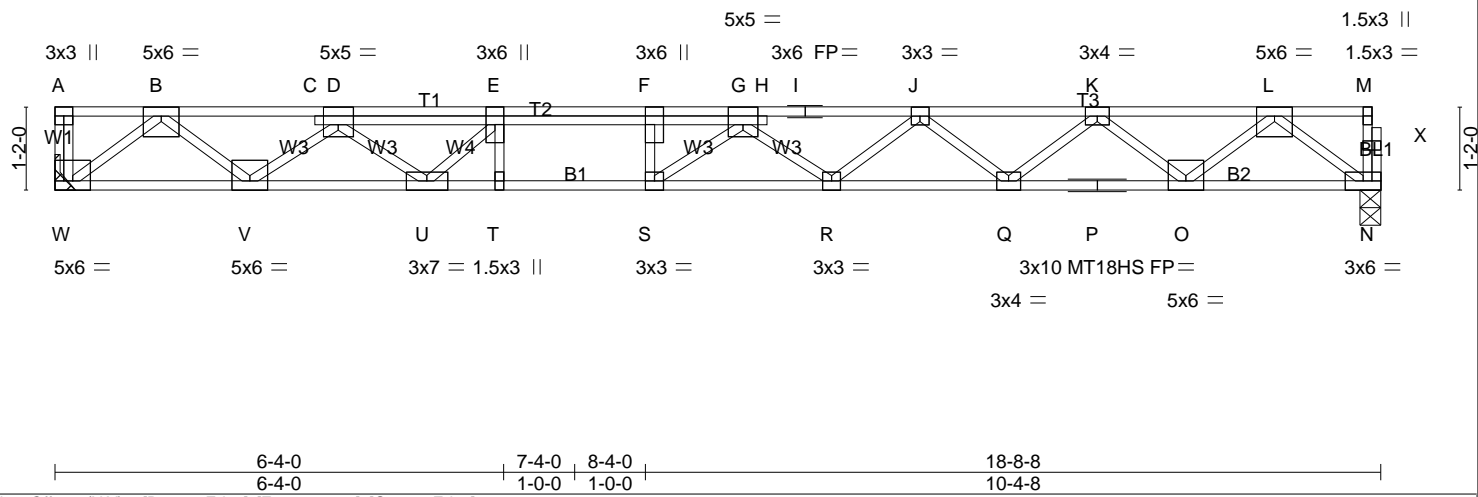


Plate Offsets (X,Y)-- [D:0-2-8,Edge], [F:0-3-0,0-0-0], [G:0-2-8,Edge]

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 0.73	Vert(LL) -0.34 R-S >657 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.74	Vert(CT) -0.55 R-S >403 360	MT18HS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.66	Horz(CT) 0.09 N n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH			
				Weight: 102 lb	FT = 20%F, 12%E

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) W=1200/Mechanical, N=1192/0-3-8

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-W=-58/0, N-X=-47/0, M-X=-47/0, A-B=0/0, B-C=-2563/0, C-D=-2550/0, D-E=-4532/0, E-F=-5300/0, F-G=-5300/0, G-H=-5088/0, H-I=-5142/0, I-J=-5142/0, J-K=-4208/0, K-L=-2553/0, L-M=-3/0
 BOT CHORD V-W=0/1493, U-V=0/3660, T-U=0/5300, S-T=0/5300, R-S=0/5411, Q-R=0/4825, P-Q=0/3573, O-P=0/3573, N-O=0/1497
 WEBS E-T=0/176, F-S=-215/181, B-W=-1873/0, B-V=0/1393, D-V=-1394/0, D-U=0/1151, E-U=-1143/0, L-N=-1875/0, L-O=0/1374, K-O=-1328/0, K-Q=0/827, J-Q=-802/0, J-R=0/413, G-R=-373/0, G-S=-432/386

NOTES-
 1) Unbalanced floor live loads have been considered for this design.
 2) All plates are MT20 plates unless otherwise indicated.
 3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 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

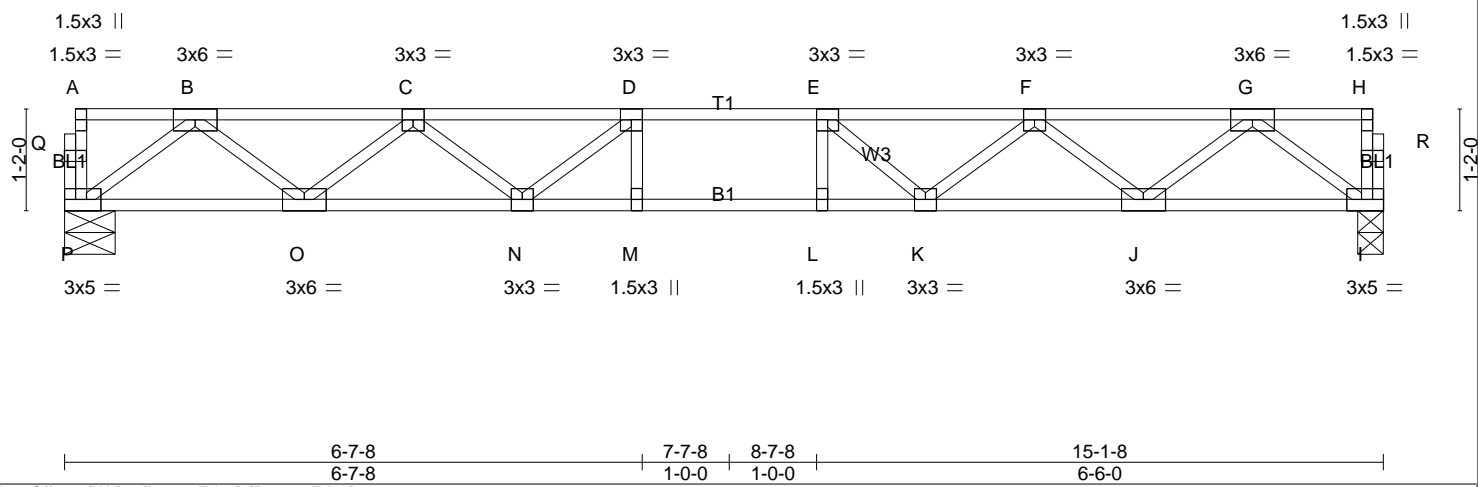
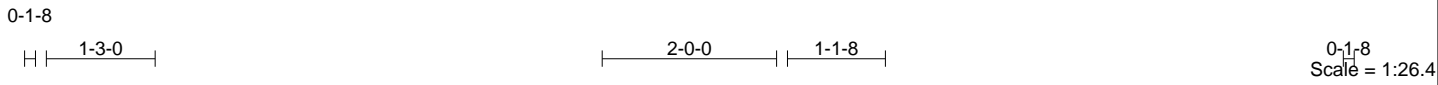


Plate Offsets (X,Y)-- [L:0-2-0,Edge], [P:0-2-0,Edge]

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 0.56	Vert(LL) -0.16 M-N >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.89	Vert(CT) -0.26 M-N >686 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.05 I n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH			
				Weight: 75 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 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) P=959/0-7-0, I=959/0-3-8

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD P-Q=-49/0, A-Q=-49/0, I-R=-48/0, H-R=-47/0, A-B=-3/0, B-C=-1969/0, C-D=-3070/0, D-E=-3415/0, E-F=-3075/0, F-G=-1967/0, G-H=-3/0
 BOT CHORD O-P=0/1191, N-O=0/2713, M-N=0/3415, L-M=0/3415, K-L=0/3415, J-K=0/2706, I-J=0/1193
 WEBS D-M=-140/154, E-L=-130/181, B-P=-1491/0, B-O=0/1012, C-O=-969/0, C-N=0/523, D-N=-628/0, G-I=-1493/0, G-J=0/1008, F-J=-962/0, F-K=0/541, E-K=-640/0

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 19093225F	Truss FT6	Truss Type Floor	Qty 4	Ply 1	DANIELS CLASSIC PORCH
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.310 s May 22 2019 MiTek Industries, Inc. Fri Nov 1 11:54:54 2019 Page 1
ID:kkJBUWwzC6idAYz0OK0ogiyT774-0?dnr5Kr4cd16?bpP3jrKPTP9NfsJ_yEnuvAsJyNaw

0-1-8



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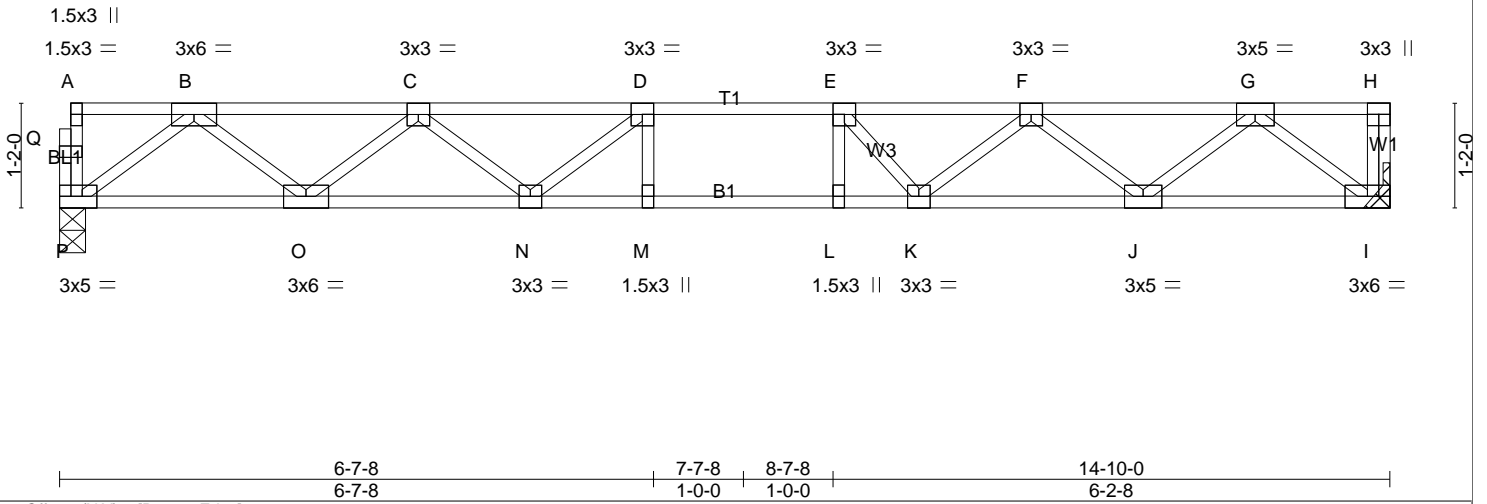


Plate Offsets (X,Y)-- [P:0-2-0,Edge]

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) -0.16 M-N >999 480	MT20	244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.91	Vert(CT) -0.25 M-N >690 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.05 I n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH			
				Weight: 74 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)

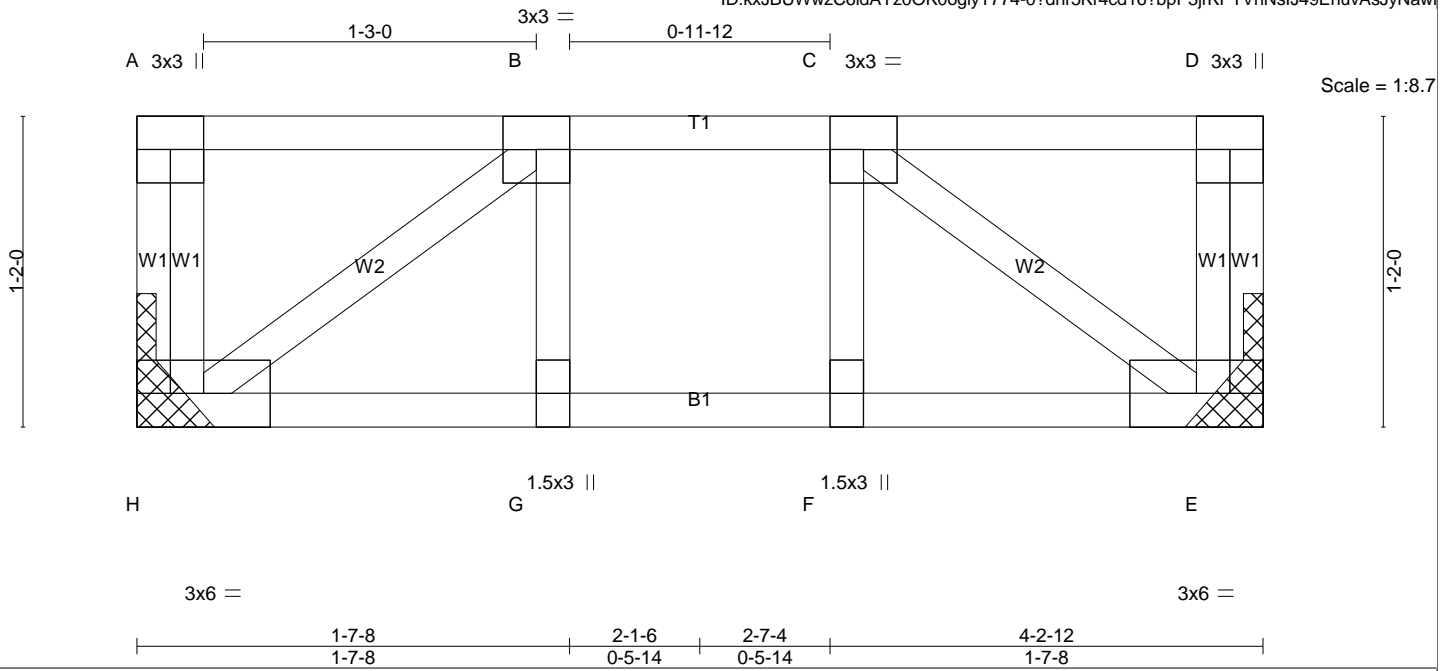
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) P=940/0-3-8, I=948/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD P-Q=-49/0, A-Q=-49/0, H-I=-50/0, A-B=-3/0, B-C=-1921/0, C-D=-2978/0, D-E=-3277/0, E-F=-2996/0, F-G=-1917/0, G-H=0/0
BOT CHORD O-P=0/1165, N-O=0/2645, M-N=0/3277, L-M=0/3277, K-L=0/3277, J-K=0/2625, I-J=0/1173
WEBS D-M=-154/127, E-L=-125/228, B-P=-1458/0, B-O=0/984, C-O=-943/0, C-N=0/493, G-I=-1471/0, G-J=0/970, F-J=-921/0, F-K=0/557, E-K=-624/0, D-N=-573/0

- 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



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 0.15	Vert(LL) -0.00 G >999 480	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.11	Vert(CT) -0.01 G >999 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00 E n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 25 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 4-2-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) H=259/Mechanical, E=259/Mechanical

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-H=-77/0, D-E=-77/0, A-B=0/0, B-C=-247/0, C-D=0/0
BOT CHORD G-H=0/247, F-G=0/247, E-F=0/247
WEBS C-E=-305/0, B-H=-305/0, B-G=-11/37, C-F=-11/37

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

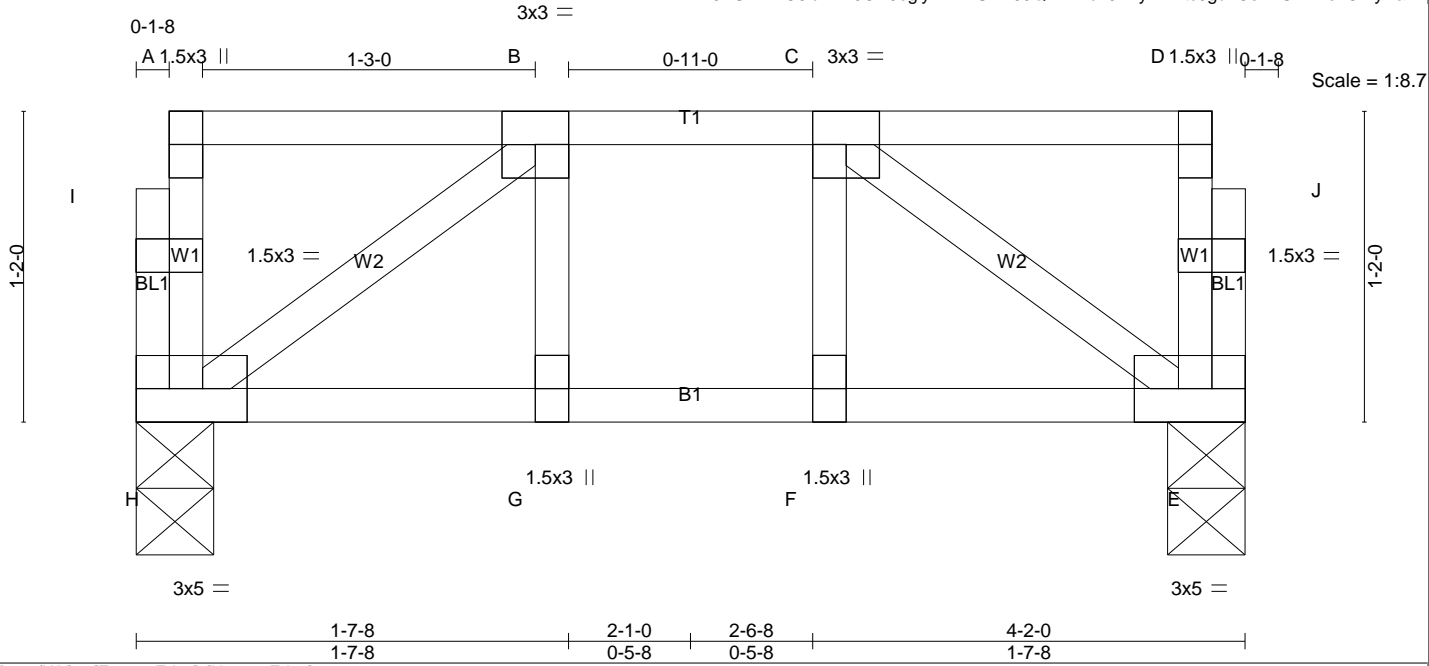


Plate Offsets (X,Y)-- [E:0-2-0,Edge], [H:0-2-0,Edge]

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 0.14	Vert(LL) -0.00 G >999 480	MT20 244/190
TCDL 20.0	Lumber DOL 1.00	BC 0.10	Vert(CT) -0.01 G >999 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00 E n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 24 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 4-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) H=247/0-3-8, E=247/0-3-8

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD H-I=-75/0, A-I=-74/0, E-J=-75/0, D-J=-74/0, A-B=-4/0, B-C=-239/0, C-D=-4/0
 BOT CHORD G-H=0/239, F-G=0/239, E-F=0/239
 WEBS C-E=-290/0, B-H=-290/0, B-G=-10/35, C-F=-10/35

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

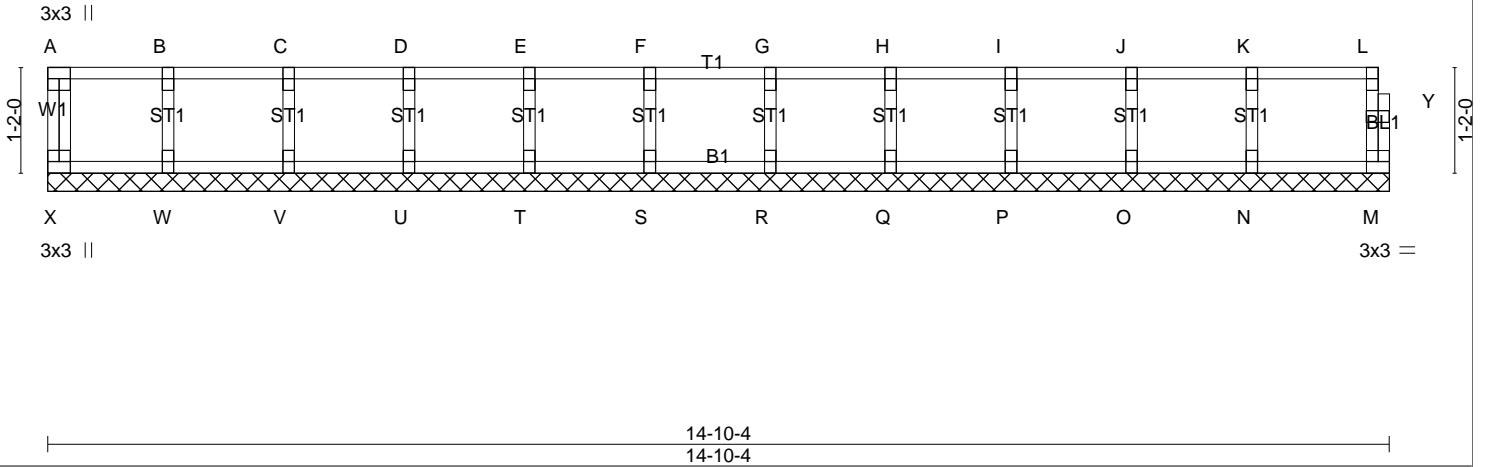
Job 19093225F	Truss KW1	Truss Type GABLE	Qty 1	Ply 1	DANIELS CLASSIC PORCH
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.310 s May 22 2019 MiTek Industries, Inc. Fri Nov 1 11:54:55 2019 Page 1
ID:kkJBUWwzC6idAYz0OK0oglyT774-UBA93QLTrwluk9A?ymE4tc0h9nDz2YwN?YekOmyNawk

0-1-8

Scale = 1:25.5



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 M n/a n/a		
	Code IRC2015/TPI2014			Weight: 63 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) X=77/14-10-4, M=79/14-10-4, W=165/14-10-4, V=176/14-10-4, U=173/14-10-4, T=173/14-10-4, S=173/14-10-4, R=173/14-10-4, Q=173/14-10-4, P=174/14-10-4, O=171/14-10-4, N=184/14-10-4

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-X=-69/0, M-Y=-74/0, L-Y=-73/0, A-B=-15/0, B-C=-15/0, C-D=-15/0, D-E=-15/0, E-F=-15/0, F-G=-15/0, G-H=-15/0, H-I=-15/0, I-J=-15/0, J-K=-15/0, K-L=-15/0
BOT CHORD W-X=0/15, V-W=0/15, U-V=0/15, T-U=0/15, S-T=0/15, R-S=0/15, Q-R=0/15, P-Q=0/15, O-P=0/15, N-O=0/15, M-N=0/15
WEBS B-W=-154/0, C-V=-162/0, D-U=-160/0, E-T=-160/0, F-S=-160/0, G-R=-160/0, H-Q=-160/0, I-P=-161/0, J-O=-158/0, K-N=-169/0

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - 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.
 - 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.
 - CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 19093225F	Truss KW2	Truss Type Floor Supported Gable	Qty 1	Ply 1	DANIELS CLASSIC PORCH
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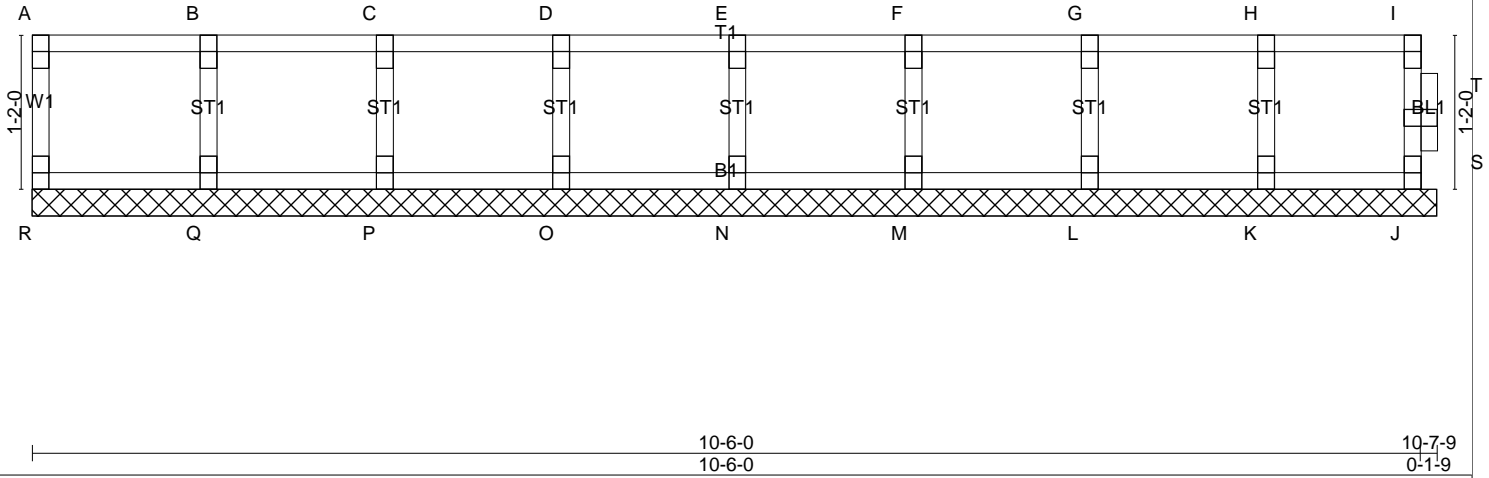
UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.310 s May 22 2019 MiTek Industries, Inc. Fri Nov 1 11:54:56 2019 Page 1

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0-1-8

Scale = 1:17.4



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 0.01	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 J n/a n/a		
	Code IRC2015/TPI2014			Weight: 44 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) R=74/10-7-8, J=65/10-7-8, Q=179/10-7-8, P=172/10-7-8, O=174/10-7-8, N=173/10-7-8, M=173/10-7-8, L=176/10-7-8, K=164/10-7-8

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-R=-67/0, J-S=-59/0, S-T=-59/0, I-T=-59/0, 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
BOT CHORD 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, J-K=0/9
WEBS B-Q=-166/0, C-P=-159/0, D-O=-160/0, E-N=-160/0, F-M=-160/0, G-L=-162/0, H-K=-153/0

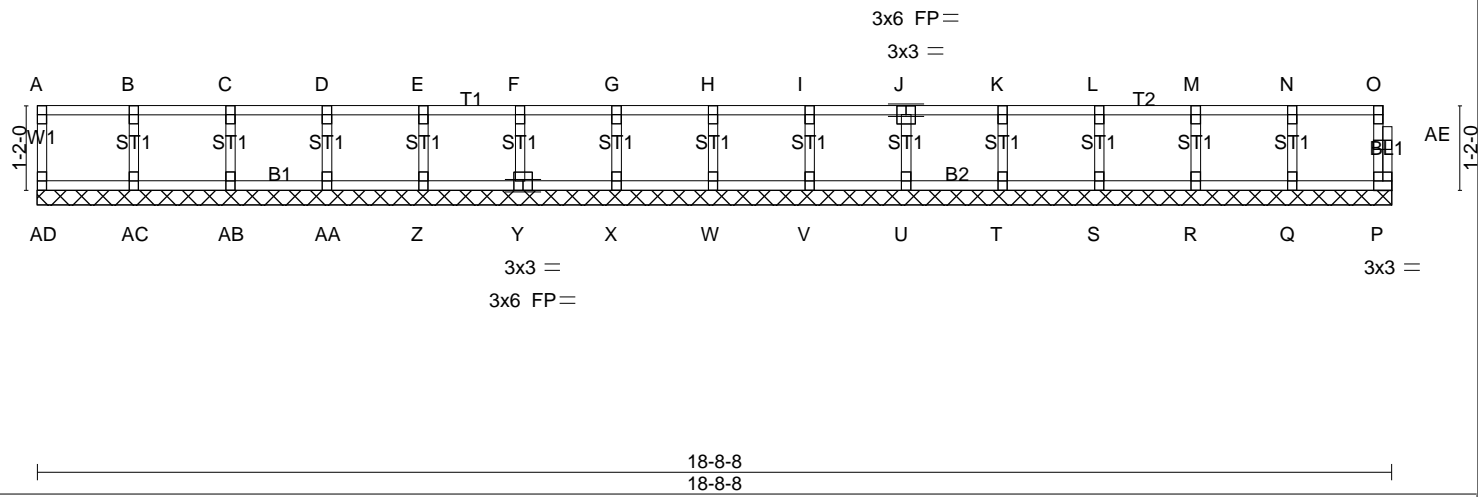
- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) This truss is designed 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

Job 19093225F	Truss KW3	Truss Type Floor Supported Gable	Qty 1	Ply 1	DANIELS CLASSIC PORCH
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.310 s May 22 2019 MiTek Industries, Inc. Fri Nov 1 11:54:56 2019 Page 1
 ID:kxJBuWwzC6idAYz0OK0oglyT774-yOkXGmM5cDtLLiCWtJpYsuBZ3n?BXECOHWcyNawj

0-1-8
 Scale: 3/8"=1'



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 0.03 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 P n/a n/a	PLATES GRIP MT20 244/190 Weight: 77 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) AD=79/18-8-8, P=64/18-8-8, AC=172/18-8-8, AB=174/18-8-8, AA=173/18-8-8, Z=174/18-8-8, Y=173/18-8-8, X=173/18-8-8, W=173/18-8-8, V=173/18-8-8, U=173/18-8-8, T=173/18-8-8, S=174/18-8-8, R=172/18-8-8, Q=178/18-8-8

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-AD=-70/0, P-AE=-61/0, O-AE=-61/0, A-B=-14/0, B-C=-14/0, C-D=-14/0, D-E=-14/0, E-F=-14/0, F-G=-8/0, G-H=-8/0, H-I=-8/0, I-J=-8/0, J-K=-8/0, K-L=-8/0, L-M=-8/0, M-N=-8/0, N-O=-8/0
 BOT CHORD AC-AD=0/14, AB-AC=0/14, AA-AB=0/14, Z-AA=0/14, Y-Z=0/14, X-Y=0/8, W-X=0/8, V-W=0/8, U-V=0/8, T-U=0/8, S-T=0/8, R-S=0/8, Q-R=0/8, P-Q=0/8
 WEBS B-AC=-163/0, C-AB=-159/0, D-AA=-160/0, E-Z=-160/0, F-Y=-160/0, G-X=-160/0, H-W=-160/0, I-V=-160/0, J-U=-160/0, K-T=-160/0, L-S=-160/0, M-R=-160/0, N-Q=-162/0

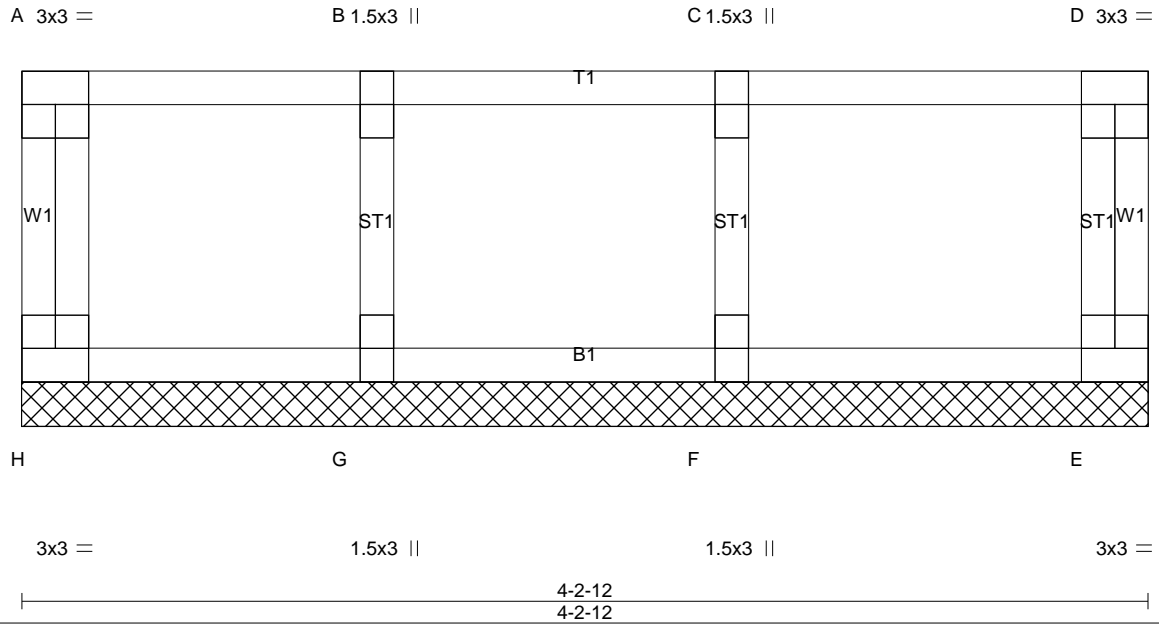
- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.
 - CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job 19093225F	Truss KW5	Truss Type Floor Supported Gable	Qty 1	Ply 1	DANIELS CLASSIC PORCH
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.310 s May 22 2019 MiTek Industries, Inc. Fri Nov 1 11:54:57 2019 Page 1
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Scale = 1:8.7

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 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 E n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		Weight: 21 lb FT = 20%F, 12%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-2-12 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=80/4-2-12, E=90/4-2-12, G=159/4-2-12, F=189/4-2-12

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-H=-71/0, D-E=-83/0, 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=-150/0, C-F=-173/0

- NOTES-**
- 1) Gable requires continuous bottom chord bearing.
 - 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) 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