Truss Type 288 NC2015 20071754 Α1 **GABLE** 1 Job Reference (optional)

8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 10:01:11 2020 Page 1
ID:wtU0m002CvnP9KkLnVkYW5y7knd-08ET6H3MxbLZ?NB?QZt5nUqf6QGtf_OiDuY5mAyoJBM UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC 20-10-8 -0-10-8 0-10-8 10-0-0 20-0-0 10-0-0 Scale = 1:71.1 3x6 =J Κ Н 12.00 12 Μ G Ν 11-6-0 0 SIT 5 ST5 3x4 || B ST SIT 4 3x4 || ST1 Q SH3 SIT3 SH2 R SIT 2 1-8-8Sic 1-6-0 VIZI AJ AI AH AG AF AE AD AC $_{\mbox{AB}}$ AA Z Υ Χ W ٧ U 3x3 || 3x3 || 3x6 =20-0-0 20-0-0 Plate Offsets (X,Y)-- [J:0-3-0,Edge] LOADING (psf) SPACING-DEFL. **PLATES** GRIP TCLL TCDL 20.0 10.0 Plate Grip DOL Lumber DOL 1.15 1.15 TC BC 0.35 Vert(LL) -0.00 n/r 120 MT20 244/190 0.21 š 90 Vert(CT) -0.00 n/r WB 0.0 Rep Stress Incr 0.13 Horz(CT) 0.01 n/a n/a **BCDI** 10.0 Code IBC2015/TPI2014 Matrix-R Weight: 203 lb FT = 20% LUMBER-BRACING-Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt I-AC, H-AD, K-AA, L-Z TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 TOP CHORD BOT CHORD WEBS

2x4 SP No.3 **OTHERS** 2x4 SP No.3

REACTIONS. (lb/size)

AJ=140/20-0-0 (min. 0-2-0), T=140/20-0-0 (min. 0-2-0), AC=136/20-0-0 (min. 0-2-0), AD=98/20-0-0 (min. 0-2-0), AE=107/20-0-0 (min. 0-2-0), AF=107/20-0-0 (min. 0-2-0), AF=1 AG=105/20-0-0 (min. 0-2-0), AH=114/20-0-0 (min. 0-2-0), AI=42/20-0-0 (min. 0-2-0), AA=136/20-0-0 (min. 0-2-0), Z=98/20-0-0 (min. 0-2-0), Y=107/20-0-0 (min. 0-2-0), X=107/20-0-0 (min. 0-2-0), W=105/20-0-0 (min. 0-2-0), V=114/20-0-0 (min. 0-2-0), U=42/20-0-0 (min. 0-2-0) Max Horz AJ=316(LC 9)

Max UpliftAJ=330(LC 8), T=-294(LC 9), AD=-134(LC 10), AE=-72(LC 10), AF=-67(LC 10), AG=-80(LC 10), AH=-31(LC 10), AI=-405(LC 10), Z=-136(LC 11), Y=-72(LC 11), X=-67(LC 11

W=-80(LC 11), V=-32(LC 11), U=-394(LC 11)
Max Grav AJ=451(LC 7), T=424(LC 11), AC=238(LC 11), AD=116(LC 17), AE=122(LC 17), AF=120(LC 17), AG=126(LC 17), AH=114(LC 1), AI=359(LC 8), AA=230(LC 10), Z=119(LC 18), Y=122(LC 18), X=120(LC 18), W=126(LC 18), V=114(LC 1), U=333(LC 9)

FORCES. (lb) - Maximum Compression/Maximum Tension

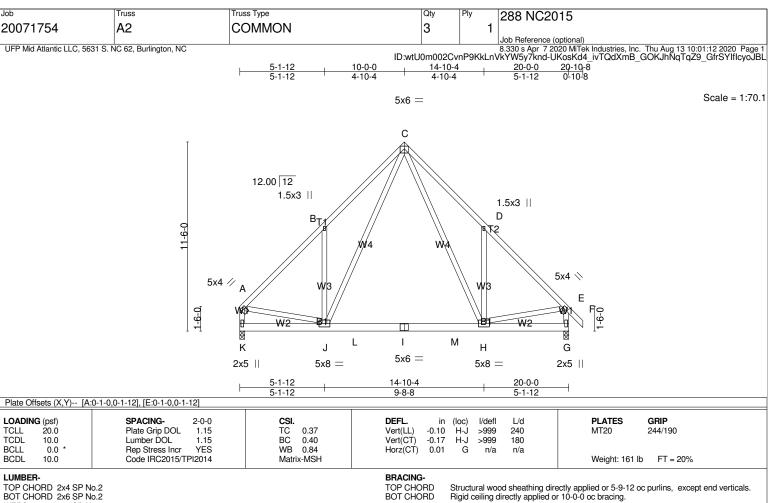
TOP CHORD B-AJ=-280/195, A-B=0/43, B-C=-322/262, C-D=-168/158, D-E=-145/141, E-F=-126/136, F-G=-118/176, G-H=-176/245, H-I=-272/371, I-J=-162/197,

J-K=-162/197, K-L=-272/371, L-M=-176/245, M-N=-118/175, N-O=-107/128, O-P=-126/123, P-Q=-151/140, Q-R=-310/235, R-S=0/43, R-T=-257/170 AI-AJ=-160/184, AH-AI=-160/184, AG-AH=-160/184, AF-AG=-160/184, AE-AF=-160/184, AD-AE=-160/184, AC-AD=-160/184, AB-AC=-160/184, AF-AG=-160/184, AF-AG=-**BOT CHORD**

AA-AB=-160/184, Z-AA=-160/184, Y-Z=-160/184, X-Y=-160/184, W-X=-160/184, U-V=-160/184, U-V=-160/184, T-U=-160/184 I-AC=-257/130, H-AD=-163/161, G-AE=-109/88, F-AF=-106/85, E-AG=-108/88, D-AH=-103/78, C-AI=-188/222, K-AA=-257/130, L-Z=-163/161, M-Y=-109/88, N-X=-106/85, C-W=-108/88, P-V=-103/79, Q-U=-188/217 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Truss designed for wind loads in the plane of the truss only
- 4) All plates are 1.5x3 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) 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.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 330 lb uplift at joint AJ, 294 lb uplift at joint T, 134 lb uplift at joint AD, 72 lb uplift at joint AE, 67 lb uplift at joint AF, 80 lb uplift at joint AG, 31 lb uplift at joint AH, 405 lb uplift at joint AI, 136 lb uplift at joint Z, 72 lb uplift at joint Y, 67 lb uplift at joint X, 80 lb uplift at joint W, 32 lb uplift at joint V and 394 lb uplift at joint U.
- 11) 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.



TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 2x4 SP No.3

REACTIONS. (lb/size) K=787/0-3-8 (min. 0-1-8), G=851/0-3-8 (min. 0-1-8)

Max Horz K=-304(LC 6)
Max UpliftK=-72(LC 11), G=-75(LC 10) Max Grav K=802(LC 18), G=851(LC 1)

WEBS C-H=-301/606, D-H=-423/349, C-J=-303/616, B-J=-436/363, A-J=0/575, E-H=0/574

NOTES-

Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 tal and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint K and 75 lb uplift at joint G.
6) 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.

Truss Type Truss Qty 288 NC2015 20071754 2 A2A Common 1 Job Reference (optional)

8.330 s Apr. 7 2020 MiTek Industries, Inc. Thu Aug 13 10:01:13 2020 Page 1
ID:wtU0m002CvnP9KkLnVkYW5y7knd-yWMEXz4dTDbHEhLNY_vZsvw08EvOjju?hC1Cq3yoJBK UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC 10-0-0 14-10-4 20-0-0 4-10-4 4-10-4 Scale = 1:70.1 5x6 =С 12.00 12 1.5x3 || 1.5x3 || D B-3x4 \ 3x4 // Е WB 1-6-0 Ì₩) 1-6-0 W2 W2 × Κ Н L ı G F 5x6 = 2x5 || 5x8 =5x8 =2x5 | 14-10-4 20-0-0 5-1-12 9-8-8 5-1-12 Plate Offsets (X,Y)-- [A:0-1-0,0-1-8], [E:0-1-0,0-1-8] LOADING (psf) L/d SPACING-CSI. DEFL. I/defI **PLATES GRIP** Plate Grip DOL Lumber DOL TCLL TCDL 20.0 10.0 1.15 1.15 TC BC Vert(LL) Vert(CT) -0.10 -0.17 G-I G-I 244/190 0.31 >999 240 MT20 180 0.40 >999 0.0 Rep Stress Incr WB 0.84 Horz(CT) 0.00 n/a n/a **BCDI** 10.0 Code IBC2015/TPI2014 Matrix-MSH Weight: 159 lb FT = 20% LUMBER-BRACING-TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-9-11 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 2x4 SP No.3

REACTIONS. (lb/size) J=788/0-3-8 (min. 0-1-8), F=788/0-3-8 (min. 0-1-8)

Max Horz J=-288(LC 6)
Max UpliftJ=-71(LC 11), F=-71(LC 10) Max Grav J=803(LC 18), F=803(LC 17)

 FORCES. (lb) - Maximum Compression/Maximum Tension

 TOP CHORD
 A-B=-890/159, B-C=-936/432, C-D=-936/432, D-E=-890/159, A-J=-802/136, E-F=-802/136

 BOT CHORD
 I-J=-292/314, I-K=-42/456, H-K=-42/456, H-L=-42/456, G-L=-42/456, F-G=-62/67

 WEBS
 C-G=-304/616, D-G=-436/363, C-I=-304/616, B-I=-436/363, A-I=0/576, E-G=0/579

NOTES-

Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 tal and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint J and 71 lb uplift at joint F.
6) 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.

Truss Type Qty 288 NC2015 **ROOF TRUSS** 6 20071754 А3 1 Job Reference (optional)
8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 10:01:15 2020 Page 1
ID:wtU0m002CvnP9KkLnVkYW5y7knd-wVL_ye6t?qs?U_VmfPy1xK?Gv2ZGBfHH8WWJvxyoJBI UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC 4-10-15 14-7-7 19-6-6 4-10-15 4-10-15 Scale = 1:68.8 5x6 < 5x6 = 3x4 =0-7-12 ES 4 1 -1 -0 С D T2 12.00 12 5x4 // В 10-10-10 10-10-10 11-0-6 10-6-12 **W**6 2x3 || 1-6-0 Ø ı H Κ L Ν M G J 5x6 = 5x5 = 5x4 =3x8 =9-6-6 20-0-0 10-5-10 Plate Offsets (X,Y)-- [E:0-2-12,Edge] LOADING (psf) SPACING-CSI DEFL. **PLATES** GRIP I/defI Plate Grip DOL Lumber DOL TCLL TCDL 20.0 10.0 1.15 1.15 TC BC 0.68 0.57 G-I G-I 244/190 Vert(LL) -0.17>999 240 MT20 180 -0.26 >902 Vert(CT) 0.0 Rep Stress Incr WB 0.72 0.01 Horz(CT) G n/a n/a **BCDI** 10.0 Code IRC2015/TPI2014 Matrix-MSH Weight: 170 lb FT = 20% LUMBER-**BRACING-**Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): C-E.

TOP CHORD

BOT CHORD

WEBS

Rigid ceiling directly applied or 10-0-0 oc bracing.

F-G, D-G

1 Row at midpt

TOP CHORD 2x4 SP No.2 *Except* T3: 2x6 SP No.2 BOT CHORD 2x6 SP No.2 2x4 SP No.3 *Except* **WEBS**

W6: 2x4 SP No 2

REACTIONS. (lb/size) J=788/0-3-8 (min. 0-1-8), G=788/0-3-8 (min. 0-1-8)

Max Horz J=390(LC 7)
Max UpliftJ=-46(LC 10), G=-197(LC 7)
Max Grav J=807(LC 2), G=850(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD A-B=-266/163, B-C=-708/260, C-D=-471/246, D-E=-165/178, E-F=-190/190, A-J=-263/146, F-G=-131/103 BOT CHORD J-K=-288/623, K-L=-288/623, I-L=-288/623, I-L=-189/313, H-M=-189/313, M-N=-189/313, G-N=-189/313 B-I=-255/256, C-I=-45/247, D-I=-72/406, B-J=-695/40, D-G=-644/239

WEBS

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

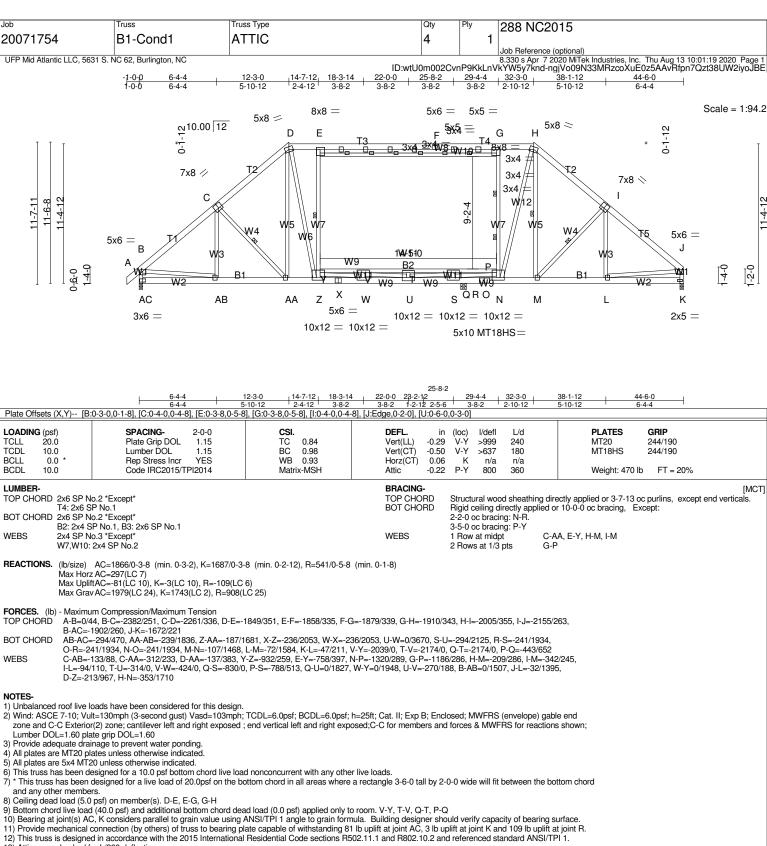
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

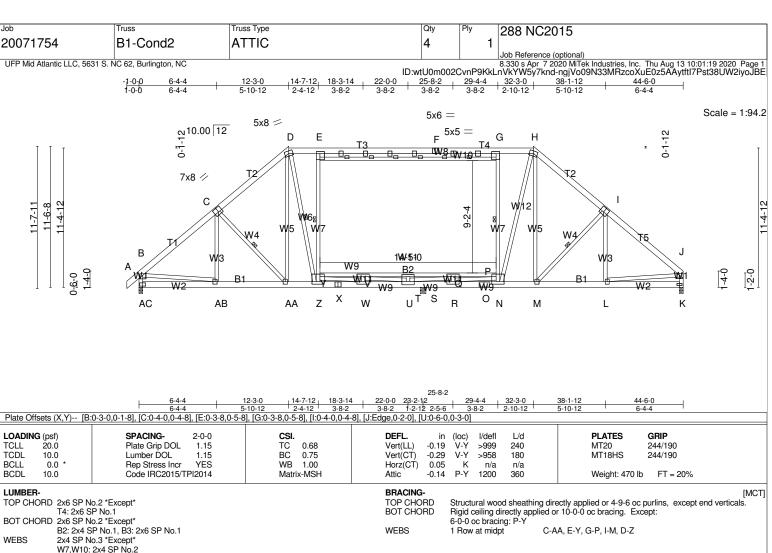
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint J and 197 lb uplift at joint G.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

9) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



- 13) Attic room checked for L/360 deflection.



W7,W10: 2x4 SP No.2

REACTIONS. (lb/size) AC=1732/0-3-8 (min. 0-2-11), K=1626/0-3-8 (min. 0-2-9), S=736/0-5-8 (min. 0-1-8) Max Horz AC=297(LC 9) Max UpliftAC=98(LC 10), K=-46(LC 11)

Max Grav AC=1732(LC 1), K=1626(LC 1), S=1233(LC 16)

(lb) - Maximum Compression/Maximum Tension FORCES.

 $A-B=0/44,\ B-C-2028/306,\ C-D=-1879/395,\ D-E=-1573/407,\ E-F=-1549/392,\ F-G=-1565/397,\ G-H=-1586/401,\ H-I=-1784/409,\ I-J=-1981/313,\ I-$ TOP CHORD

B-AC=-1658/302, J-K=-1553/258

BOT CHORD AB-AC=-294/442, AA-AB=-236/1547, Z-AA=-185/1372, X-Z=-214/1727, W-X=-214/1727, U-W=-180/2065, S-U=-122/800, R-S=-122/800

O-R=-188/1666, N-O=-188/1666, M-N=-55/1295, L-M=-110/1437, K-L=-54/208, V-Y=-701/259, T-V=-213/1148, Q-T=-213/1148, P-Q=-85/791 C-AB=-93/111, C-AA=-332/229, D-AA=-160/412, Y-Z=-1003/369, E-Y=-1051/483, N-P=-940/361, G-P=-1099/395, H-M=-185/383, I-M=-345/231, I-L=-85/117, T-U=-402/0, V-W=-70/161, Q-R=-370/32, P-R=-957/138, Q-U=-447/260, W-Y=-436/586, U-V=-1416/0, B-AB=-15/1262, J-L=-68/1244,

D-Z=-441/1064, H-N=-422/1223

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
 All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 5x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 tall by 3 and any other members.

- and any other members.

 So Ceiling dead load (5.0 pst) on member(s). D-E, E-G, G-H

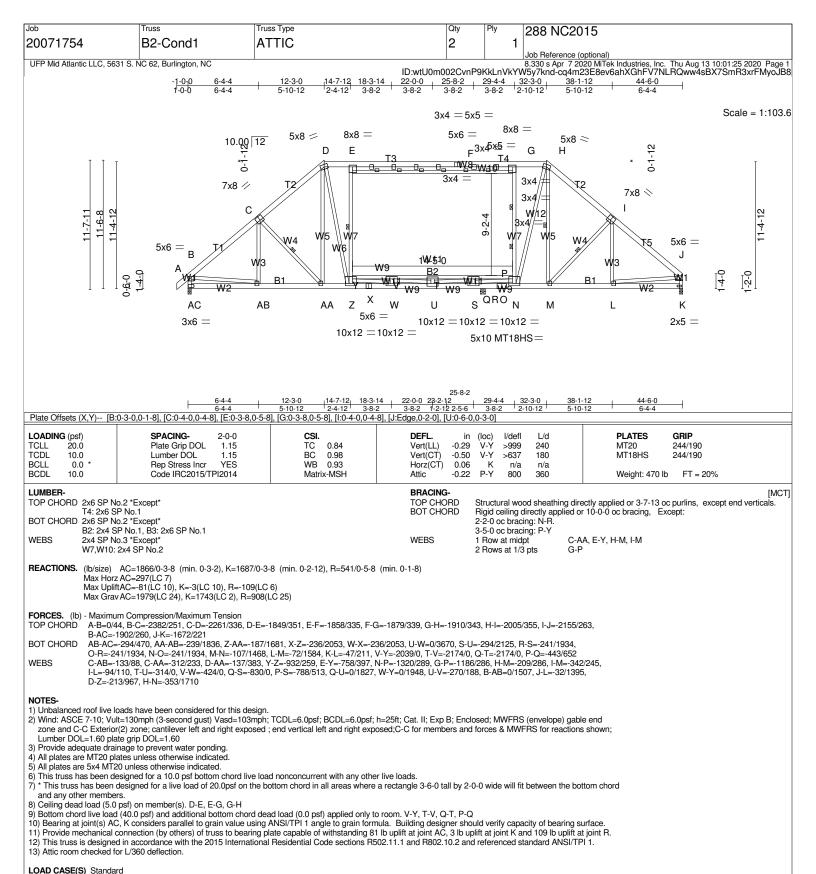
 Blottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. V-Y, T-V, Q-T, P-Q

 10) Bearing at joint(s) AC, K considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint AC and 46 lb uplift at joint K.

 12) 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.

- 13) Attic room checked for L/360 deflection.



Truss Type 288 NC2015 2 20071754 B2-Cond2 **ATTIC** 1 Job Reference (optional) 8.330 s Apr 7 2020 MTek Industries, Inc. Thu Aug 13 10:01:25 2020 Page 1
ID:wtU0m002CvnP9KkLnVkYW5y7knd-cq4m23E8ev6ahXGhFV7NLRQzM4wiX6LmR3xrFMyoJB8 UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC 22-0-0 32-3-0 2-10-12 18-3-14 44-6-0 29-4-4 3-8-2 25-8-2 3-8-2 5-10-12 3-8-2 5-10-12 Scale = 1:99.5 10.00 12 0 - 1 - 12D Ε G Н F T3 W8□W±0□ C 2 11-6-8 11-4-12 2-4 11-4-1 6 W4 W4 В 1144-1510 W/3 We 1-4-0 1-2-0 0-9-0 1-4-0 R1 W2 **₩9** Q 0 Ν AC ΑB Ζ U R Κ AA M L 25-8-2 18-3-14 3-8-2 Plate Offsets (X,Y)-- [B:0-3-0,0-1-8], [C:0-4-0,0-4-8], [E:0-3-8,0-5-8], [G:0-3-8,0-5-8], [I:0-4-0,0-4-8], [J:Edge,0-2-0], [U:0-6-0,0-3-0] LOADING (psf) SPACING-**PLATES GRIP** DEFL TCLL TCDL 20.0 10.0 Plate Grip DOL Lumber DOL 1.15 1.15 TC BC Vert(LL) Vert(CT) 244/190 0.68 -0.19**~999** 240 MT20 0.75 -0.29 V-Y 180 244/190 >958 MT18HS WB 0.05 0.0 Rep Stress Incr Horz(CT) K P-Y n/a n/a **BCDI** 10.0 Code IRC2015/TPI2014 Matrix-MSH Attic -0.14 1200 360 Weight: 470 lb FT = 20% LUMBER-BRACING-[MCT] TOP CHORD 2x6 SP No.2 *Except* T4: 2x6 SP No.1 TOP CHORD BOT CHORD Structural wood sheathing directly applied or 4-9-6 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. Except: BOT CHORD 2x6 SP No.2 *Except* 6-0-0 oc bracing: P-Y B2: 2x4 SP No.1, B3: 2x6 SP No.1 2x4 SP No.3 *Except* **WEBS** C-AA, E-Y, G-P, I-M, D-Z 1 Row at midpt WFBS W7,W10: 2x4 SP No.2 REACTIONS. (lb/size) AC=1732/0-3-8 (min. 0-2-11), K=1626/0-3-8 (min. 0-2-9), S=736/0-5-8 (min. 0-1-8) Max Horz AC=297(LC 9) Max UpliftAC=98(LC 10), K=-46(LC 11) Max Grav AC=1732(LC 1), K=1626(LC 1), S=1233(LC 16) (lb) - Maximum Compression/Maximum Tension FORCES. $A-B=0/44,\ B-C-2028/306,\ C-D=-1879/395,\ D-E=-1573/407,\ E-F=-1549/392,\ F-G=-1565/397,\ G-H=-1586/401,\ H-I=-1784/409,\ I-J=-1981/313,\ I-$ TOP CHORD B-AC=-1658/302, J-K=-1553/258 **BOT CHORD**

AB-AC=-294/442, AA-AB=-236/1547, Z-AA=-185/1372, X-Z=-214/1727, W-X=-214/1727, U-W=-180/2065, S-U=-122/800, R-S=-122/800

O-R=-188/1666, N-O=-188/1666, M-N=-55/1295, L-M=-110/1437, K-L=-54/208, V-Y=-701/259, T-V=-213/1148, Q-T=-213/1148, P-Q=-85/791 C-AB=-93/111, C-AA=-332/229, D-AA=-160/412, Y-Z=-1003/369, E-Y=-1051/483, N-P=-940/361, G-P=-1099/395, H-M=-185/383, I-M=-345/231, I-L=-85/117, T-U=-402/0, V-W=-70/161, Q-R=-370/32, P-R=-957/138, Q-U=-447/260, W-Y=-436/586, U-V=-1416/0, B-AB=-15/1262, J-L=-68/1244,

D-Z=-441/1064, H-N=-422/1223

WEBS

1) Unbalanced roof live loads have been considered for this design.

- 1) Onbalanced to the values have been considered for this besign.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 5x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord
- and any other members.

 So Ceiling dead load (5.0 pst) on member(s). D-E, E-G, G-H

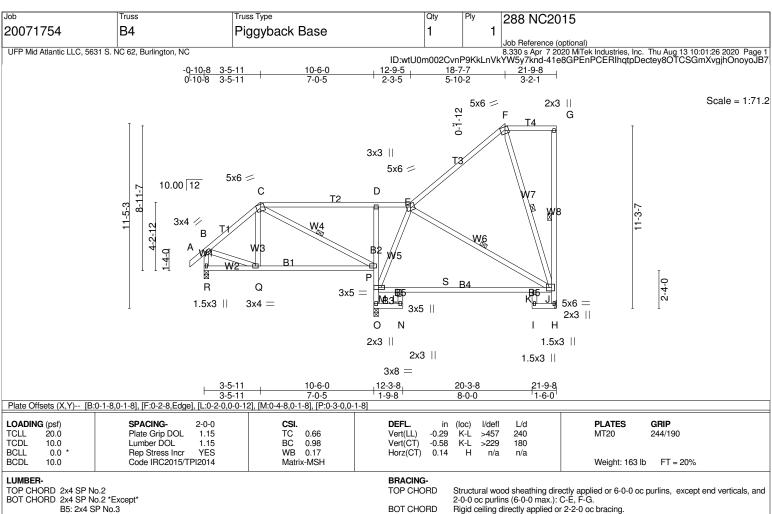
 Blottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. V-Y, T-V, Q-T, P-Q

 10) Bearing at joint(s) AC, K considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint AC and 46 lb uplift at joint K.

 12) 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.

- 13) Attic room checked for L/360 deflection.



WEBS

1 Row at midpt

G-H, C-P, E-J, F-J

B5: 2x4 SP No.3 **WEBS**

2x4 SP No.3 *Except* W8: 2x4 SP No 2

REACTIONS. (lb/size) H=488/Mechanical, R=534/0-3-8 (min. 0-1-8), O=760/0-3-8 (min. 0-1-8)

Max Horz R=305(LC 10) Max UpliftH=-46(LC 10), O=-268(LC 10) Max Grav H=493(LC 2), R=534(LC 1), O=760(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD

A-B=0/39, B-C=-475/0, C-D=-381/0, D-E=-365/0, E-F=-214/29, F-G=-26/0, H-J=-456/102, G-J=-88/43, B-R=-528/0
Q-R=-338/268, P-Q=-192/398, M-O=-710/302, M-P=-485/238, D-P=-357/200, N-O=-252/0, L-N=-44/0, L-M=0/564, L-S=0/325, K-S=0/325, J-K=0/395, I-K=-15/0, H-I=-83/0
C-Q=0/158, C-P=-210/290, E-J=-315/0, B-Q=0/357, E-M=-164/119, F-J=-235/184 BOT CHORD

WEBS NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

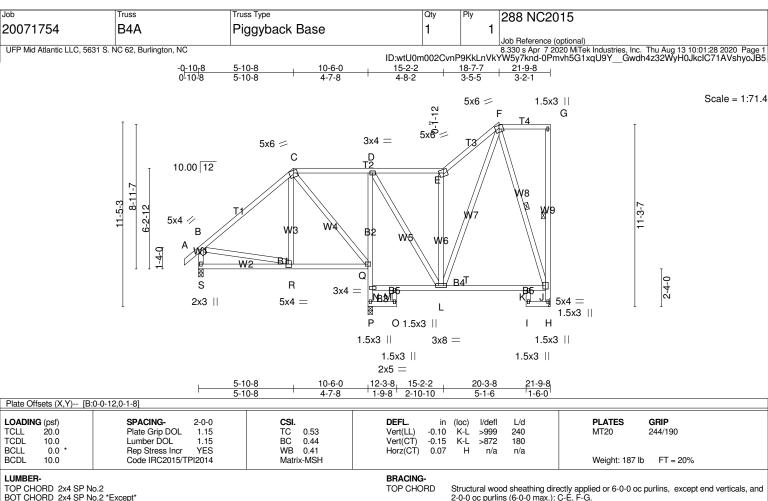
3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint H and 268 lb uplift at joint O.
7) 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.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except*

B2,B5: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (lb/size) H=423/Mechanical, S=467/0-3-8 (min. 0-1-8), P=891/0-3-8 (min. 0-1-8)

Max Horz S=305(LC 10)
Max UpliftH=-61(LC 10), P=-237(LC 10)
Max Grav H=442(LC 2), S=467(LC 1), P=891(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD

A-B=0/39, B-C=-367/0, C-D=-79/75, D-E=-176/0, E-F=-274/0, F-G=-11/0, H-J=-411/113, G-J=-88/41, B-S=-415/37

BOT CHORD

BOT C **WEBS**

BOT CHORD

WEBS

Rigid ceiling directly applied or 6-0-0 oc bracing.

G-H, F-J

1 Row at midpt

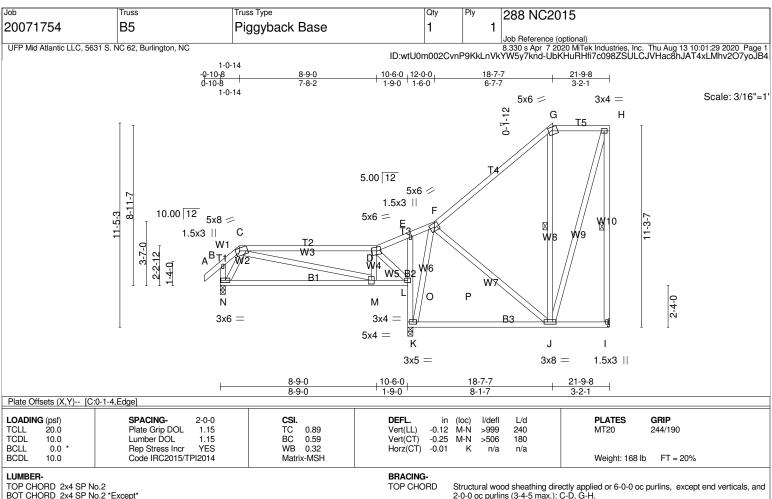
C-R=0/226, C-Q=-370/195, B-R=-189/276, F-J=-291/109, E-L=-348/84, D-L=-2/354, F-L=-0/231

- Unbalanced roof live loads have been considered for this design.
 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

 3) Provide adequate drainage to prevent water ponding.

 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint H and 237 lb uplift at joint P.
- 7) 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. 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



BOT CHORD

WEBS

Rigid ceiling directly applied or 6-0-0 oc bracing.

H-I, G-J

1 Row at midpt

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except*

B2: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (lb/size) I=423/Mechanical, N=479/0-3-8 (min. 0-1-8), K=877/0-3-8 (min. 0-1-8)

Max Horz N=305(LC 10)

Max UpliftI=-100(LC 10), N=-30(LC 10), K=-158(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD

M-R-B-0/39, B-C=-145/74, C-D=-452/0, D-E=-246/172, E-F=-288/221, F-G=-261/10, G-H=-112/36, H-I=-420/134, B-N=-162/44 M-N=-333/352, L-M=-60/443, K-L=-361/93, E-L=-119/116, K-O=-47/109, O-P=-47/109, J-P=-47/109, I-J=-1/1 C-M=-17/306, D-M=0/290, D-L=-679/87, F-J=-12/39, G-J=-240/204, H-J=-128/405, C-N=-492/235, F-K=-457/245 BOT CHORD **WEBS**

NOTES-

Unbalanced roof live loads have been considered for this design.

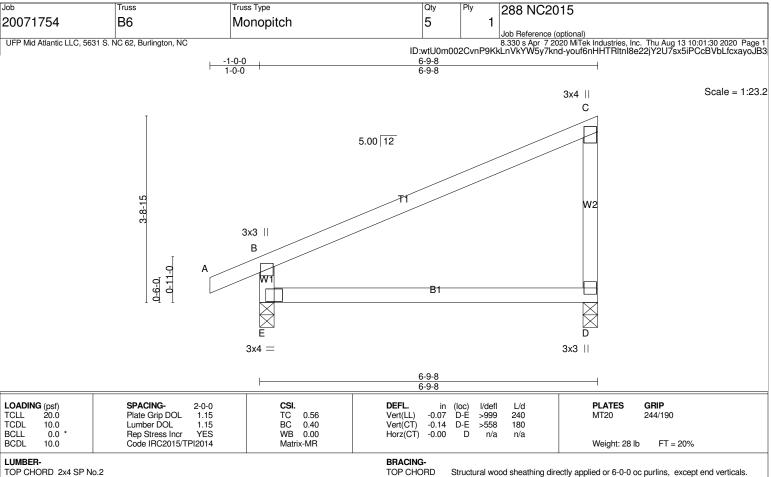
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 21-7-12 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Provide adequate drainage to prevent water ponding.
 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint I, 30 lb uplift at joint N and 158 lb uplift at joint K.

 7) 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.

- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (lb/size) D=254/0-3-8 (min. 0-1-8), E=335/0-3-8 (min. 0-1-8) Max Horz E=146(LC 7)

Max UpliftD=-62(LC 10), E=-57(LC 10)

 FORCES. (Ib) - Maximum Compression/Maximum Tension

 TOP CHORD
 A-B=0/26, B-C=-153/40, C-D=-173/134, B-E=-286/211

 BOT CHORD
 D-E=-38/54

NOTES-

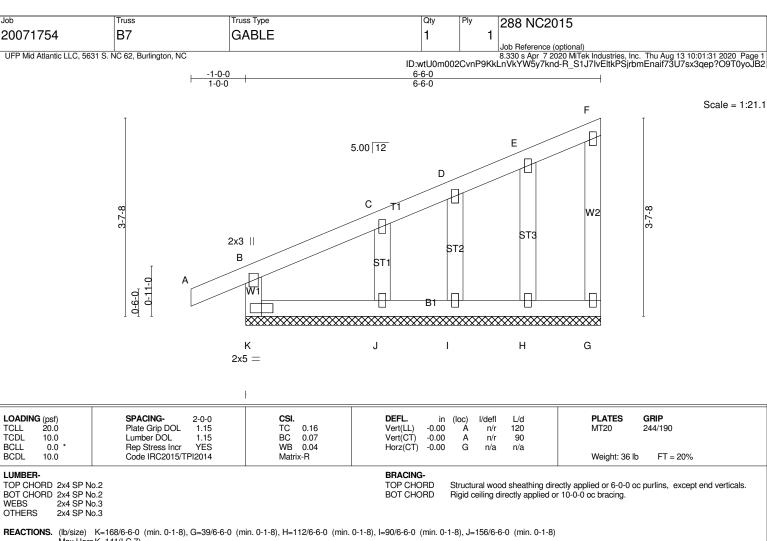
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord
- 4) Bearing at joint(s) E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

 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.



Max Horz K=141(LC 7)

Max UpliftK=-19(LC 6), G=-22(LC 7), H=-25(LC 10), I=-9(LC 10), J=-80(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD BOT CHORD B-K=-147/80, A-B=-0/26, B-C=-97/24, C-D=-68/12, D-E=-64/28, E-F=-58/53, F-G=-29/21 J-K=-57/60, I-J=-57/60, H-I=-57/60, G-H=-57/60

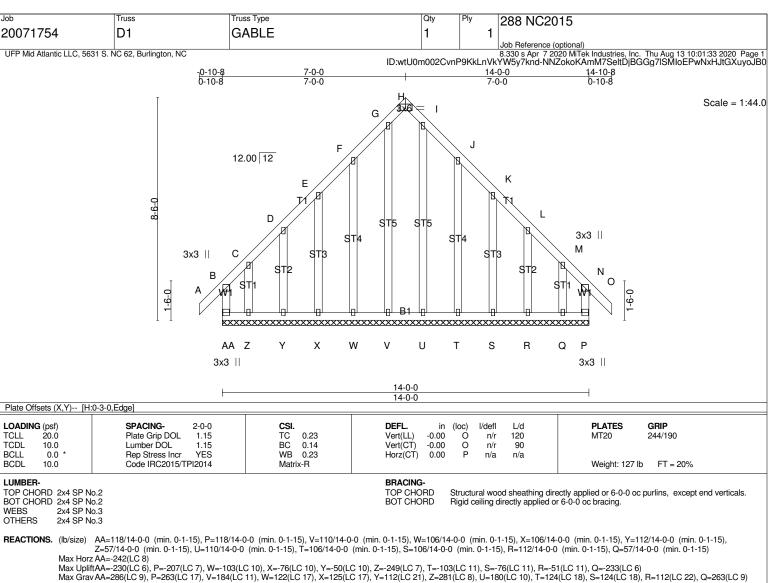
E-H=-82/49, D-I=-71/55, C-J=-112/131

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only.
 3) All plates are 1.5x3 MT20 unless otherwise indicated.

- 4) Gable requires continuous bottom chord bearing.
 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will be 3-0-0 wi
- 9) Bearing at joint(s) K considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

 10) 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.



FORCES. (lb) - Maximum Compression/Maximum Tension

B-AA=-198/153, A-B=0/43, B-C=-189/182, C-D=-108/116, D-E=-90/154, E-F=-142/226, F-G=-221/328, G-H=-134/181, H-I=-134/181, I-J=-221/328, J-K=-142/226, K-L=-83/154, L-M=-95/105, M-N=-172/163, N-O=0/43, N-P=-185/137
Z-AA=-124/128, Y-Z=-124/128, X-Y=-124/128, W-X=-124/128, V-W=-124/128, U-V=-124/128, T-U=-124/128, S-T=-124/128, R-S=-124/128, R-S=-124/128, T-U=-124/128, T-U=-124/128

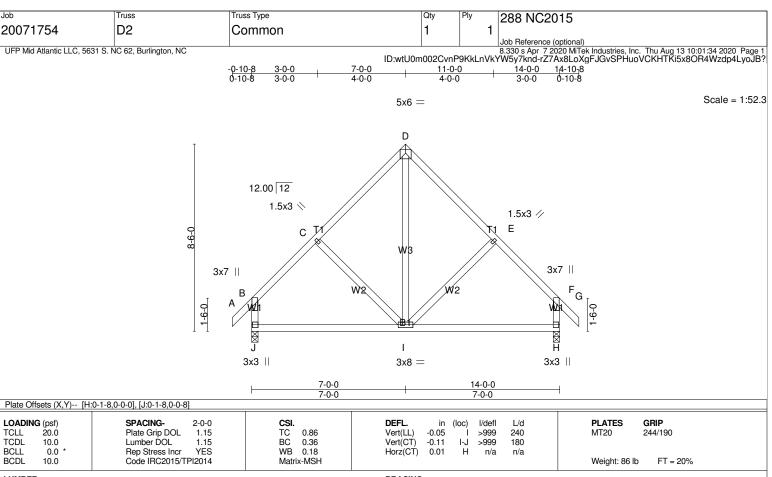
BOT CHORD

Q-R=-124/128, P-Q=-124/128

WEBS G-V=-215/97, F-W=-139/128, E-X=-109/88, D-Y=-108/84, C-Z=-141/143, I-U=-215/97, J-T=-139/128, K-S=-109/88, L-R=-108/84, M-Q=-141/140, I-U=-108/84, M-Q=-141/140, M-Q=-141/140,

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only.
- 4) All plates are 1.5x3 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 tall by 3 and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint AA, 207 lb uplift at joint P, 103 lb uplift at joint W, 76 lb uplift at joint X, 50 lb uplift at joint Y, 249 lb uplift at joint Z, 103 lb uplift at joint T, 76 lb uplift at joint S, 51 lb uplift at joint R and 233 lb uplift at joint Q.

 11) 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.



LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 BRACING-

TOP CHORD BOT CHORD

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

REACTIONS. (lb/size) J=610/0-3-8 (min. 0-1-8), H=610/0-3-8 (min. 0-1-8) Max Horz J=-242(LC 8) Max UpliftJ=-57(LC 11), H=-57(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension

A-B=0/43, B-C=-526/153, C-D=-417/186, D-E=-417/186, E-F=-526/153, F-G=0/43, B-J=-526/174, F-H=-526/174 I-J=-112/381, H-I=0/284 TOP CHORD BOT CHORD

D-I=-139/326, C-I=-148/184, E-I=-148/184

NOTES

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint J and 57 lb uplift at joint H.

6) 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.

Truss Type Qty 288 NC2015 20071754 D3 Roof Special 1 1 Job Reference (optional)

8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 10:01:35 2020 Page 1
ID:wtU0m002CvnP9KkLnVkYW5y7knd-JlhY9ULQIzNAt30cqcJkIYqnD6Jstr?EkdMNcnyoJB_ UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC 7-0-0 14-0-0 14-10₁8 11-8-8 4-8-8 Scale = 1:54.6 5x6 =D 12.00 12 3x5 // 8-6-0 3x5 📏 С F 3x4 \ 3x4 // W3 ₩3 ₽⊅ F_G В W2 W2 1-6-0 ΒÌ **∕**81 3x6 =Κ 3x6 =H 3x8 =N Μ $3x5 = \frac{1.5x3}{}$ 1.5x3 || 3x5 =2-3-8 2-3-8 7-0-0 11-8-8 14-0-0 4-8-8 4-8-8 2-3-8 Plate Offsets (X,Y)-- [B:0-1-4,0-1-8], [C:0-1-4,0-1-8], [E:0-1-4,0-1-8], [F:0-1-4,0-1-8] LOADING (psf) SPACING-DEFL. I/defI L/d **PLATES** GRIP (loc) Plate Grip DOL Lumber DOL TCLL TCDL 20.0 10.0 1.15 1.15 TC BC Vert(LL) Vert(CT) 0.03 K-Ĺ K-L 0.27 >999 240 MT20 244/190 0.83 180 >999 0.0 Rep Stress Incr WB 0.16 0.09 Н Horz(CT) n/a n/a **BCDI** 10.0 Code IBC2015/TPI2014 Matrix-MSH Weight: 98 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

B2: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (lb/size) N=610/0-3-8 (min. 0-1-8), H=610/0-3-8 (min. 0-1-8)

Max Horz N=-242(LC 8)

Max UpliftN=-57(LC 11), H=-57(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension TOP CHORD A-B=0/43, B-C=-481/126, C-D=-502/149, D

A-B=0/43, B-C=-481/126, C-D=-502/149, D-E=-502/149, E-F=-481/126, F-G=0/43, B-N=-639/144, F-H=-639/144 BOT CHORD

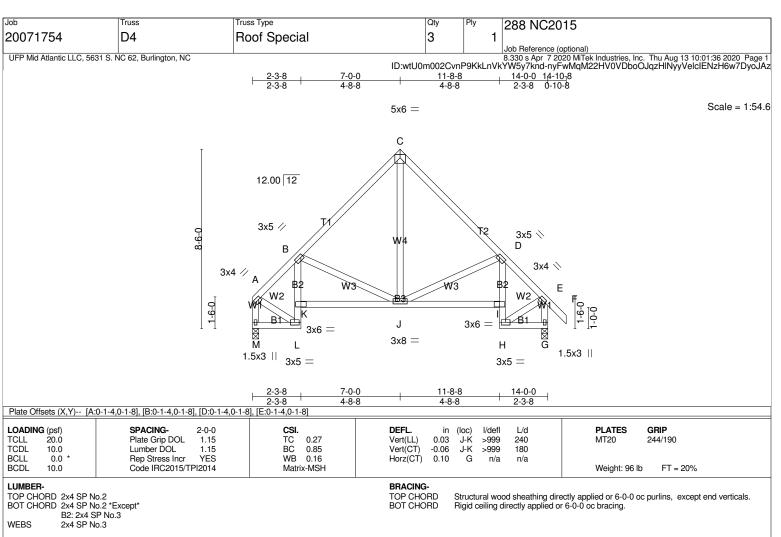
N-N=-221/213, L-M=-151/38, C-L=-115/59, K-L=-171/583, J-K=-19/429, I-J=-135/27, E-J=-108/50, H-I=-25/52 D-K=-68/358, E-K=-262/196, C-K=-266/216, B-M=-20/376, F-I=-20/376

WEBS

NOTES-

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will be 3-0-0 wide will be 3-0-0 wide will be 3-0-0 will be 3-0-
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint N and 57 lb uplift at joint H.
 6) 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.



REACTIONS. (lb/size) M=546/0-3-8 (min. 0-1-8), G=612/0-3-8 (min. 0-1-8)

Max Horz M=-233(LC 6)

Max UpliftM=-53(LC 11), G=-56(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension TOP CHORD A-B=-488/109, B-C=-506/147, C-D=-505/14

- Wazminin Compression Maximum Terison A.B.—488/109, B-C.—506/147, C-D.—505/147, D-E.—483/124, E-F.=0/43, A-M.—576/97, E-G.—641/142 L-M.—209/218, K-L.—145/48, B-K.—109/70, J-K.—167/592, I-J.—18/431, H-I.—136/27, D-I.—108/49, G-H.—25/52 C-J.—66/361, D-J.—262/196, B-J.—274/211, A-L.—48/376, E-H.—20/378 BOT CHORD **WEBS**

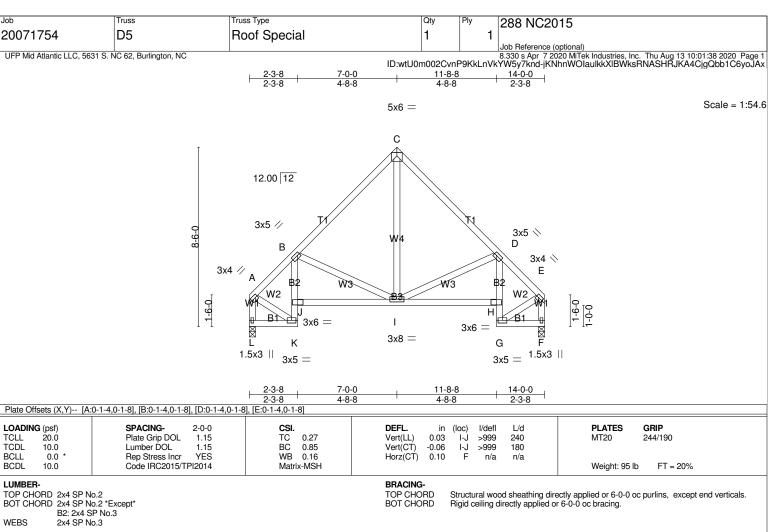
NOTES-

Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will be 3-0-0 wide will be 3-0-0 wide will be 3-0-0 will be 3-0-

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint M and 56 lb uplift at joint G.
6) 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.



REACTIONS. (lb/size) L=548/0-3-8 (min. 0-1-8), F=548/0-3-8 (min. 0-1-8)

Max Horz L=-216(LC 6)

Max UpliftL=-52(LC 11), F=-52(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension TOP CHORD A-B=-490/115, B-C=-509/157, C-D=-509/15

- Maximum Compression Maximum Teriston
- AB=-490/115, B-C=-509/157, C-D=-509/157, D-E=-490/115, A-L=-579/106, E-F=-579/106

K-L=-201/201, J-K=-144/39, B-J=-110/64, I-J=-180/577, H-I=-59/443, G-H=-135/39, D-H=-108/64, F-G=-21/27

C-I=-80/355, D-I=-262/199, B-I=-271/215, A-K=-51/378, E-G=-51/378 BOT CHORD

WEBS

NOTES-

Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will be 3-0-0 wide will be 3-0-0 wide will be 3-0-0 will be 3-0-

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint L and 52 lb uplift at joint F.
6) 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.

Truss Type Qty 288 NC2015 20071754 D₆ Roof Special 1 1 Job Reference (optional)

8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 10:01:39 2020 Page 1
ID:wtU0m002CvnP9KkLnVkYW5y7knd-CXx3_sOwLCtbMgKN3RNgvO?SAjghpfzqfFKakYyoJAw UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC -0-4-01-11-8 6-8-0 11-4-8 13-8-0 0-4-0 1-11-8 4-8-8 Scale = 1:54.1 5x6 =С 12.00 12 3x4 // 8-6-0 3x5 📏 D В 3x4 \ 3x4 =Е W3 ₩3 **B**2 W5 H 0-3-8 **∠**81 3x6 = 1 3x6 =3x8 =1.5x3 || Κ G 3x5 = 1.5x3 | |L 5x4 =-0₋₄-01-11-8 11-4-8 13-8-0 0-4-0 1-11-8 4-8-8 4-8-8 2-3-8 Plate Offsets (X,Y)-- [A:0-2-0,0-0-12], [B:0-0-12,0-1-8], [D:0-1-8,0-1-8], [E:0-1-4,0-1-8], [L:0-1-8,0-0-8] LOADING (psf) SPACING-DEFL. I/defI L/d **PLATES** GRIP Plate Grip DOL Lumber DOL TCLL TCDL 20.0 10.0 1.15 1.15 TC BC Vert(LL) Vert(CT) 0.28 -0.02 H-I >999 240 MT20 244/190 0.84 -0.06 H-I 180 >999 0.0 Rep Stress Incr WB 0.16 Horz(CT) 0.09 n/a n/a **BCDI** 10.0 Code IBC2015/TPI2014 Matrix-MSH Weight: 94 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing. B2: 2x4 SP No.3 **WEBS** 2x4 SP No.3

REACTIONS. (lb/size) F=535/0-3-8 (min. 0-1-8), L=535/0-3-8 (min. 0-1-8)

Max Horz L=-221(LC 6) Max UpliftF=-49(LC 10), L=-54(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension TOP CHORD A-B=-409/104, B-C=-490/155, C-D=-490/15

A-B=-409/104, B-C=-490/155, C-D=-490/155, D-E=-477/114, A-L=-571/102, E-F=-564/104 K-L=-201/204, J-K=-203/51, B-J=-166/75, I-J=-194/524, H-I=-58/432, G-H=-131/39, D-H=-103/63, F-G=-21/28 B-I=-224/204, C-I=-76/333, D-I=-264/199, A-K=-59/378, E-G=-50/368 BOT CHORD

WEBS

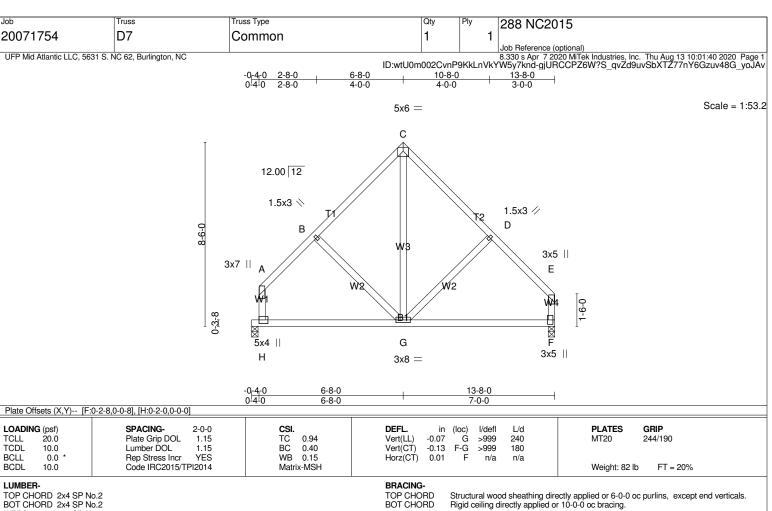
NOTES-

Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will be 3-0-0 wide will be 3-0-0 wide will be 3-0-0 will be 3-0-

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint F and 54 lb uplift at joint L.
6) 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.



TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3

REACTIONS. (lb/size) F=535/0-3-8 (min. 0-1-8), H=535/0-3-8 (min. 0-1-8) Max Horz H=-221(LC 8)

Max UpliftF=-49(LC 10), H=-54(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension

G-H=-127/342, F-C=-16/278
B-G=-118/171, C-G=-12/297, D-G=-156/182 TOP CHORD BOT CHORD

NOTES

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint F and 54 lb uplift at joint H.

6) 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.

Truss Type 288 NC2015 20071754 E1 **GABLE** 1 Job Reference (optional)

8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 10:01:41 2020 Page 1
ID:wtU0m002CvnP9KkLnVkYW5y7knd-8v2pPXQBtp7Jb_UmBsQ8_p4pQWYXGWH67ZphoRyoJAu UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC Scale = 1:65.8 F 10.00 12 F D C В 3x4 / 10-11-13 Α ιģ G 1 Κ J 1 Н 2x5 || 2x5 =3x4 =Plate Offsets (X,Y)-- [A:0-1-8,0-1-8], [L:0-2-12,0-1-0] LOADING (psf) SPACING-DEFL. **PLATES** GRIP CSI. I/defI Plate Grip DOL Lumber DOL TCLL TCDL 20.0 10.0 1.15 1.15 TC BC 244/190 0.23 Vert(LL) n/a n/a 999 MT20 0.04 999 Vert(CT) n/a n/a 0.0 WB Rep Stress Incr 0.30 Horz(CT) -0.00 G n/a n/a **BCDI** 10.0 Code IBC2015/TPI2014 Matrix-SH Weight: 100 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. TOP CHORD BOT CHORD 2x4 SP No.3 F-G, E-H, D-I WEBS 1 Row at midpt **OTHERS** 2x4 SP No.3 REACTIONS. (lb/size) L=54/7-1-0 (min. 0-1-8), G=40/7-1-0 (min. 0-1-8), H=106/7-1-0 (min. 0-1-8), I=109/7-1-0 (min. 0-1-8), J=102/7-1-0 (min. 0-1-8), K=131/7-1-0 (min. 0-1-8) Max Horz L=219(LC 10) Max UpittL=-258(LC 8), G=-29(LC 10), H=-44(LC 10), I=-58(LC 10), J=-63(LC 10), K=-714(LC 10) Max Grav L=808(LC 10), G=46(LC 17), H=114(LC 17), I=120(LC 17), J=114(LC 17), K=338(LC 8) FORCES. (lb) - Maximum Compression/Maximum Tension A-L=-846/651, A-B=-272/222, B-C=-211/172, C-D=-146/120, D-E=-86/72, E-F=-34/26, F-G=-41/33 K-L=-231/183, J-K=-1/1, I-J=-1/1, H-I=-1/1, G-H=-1/1 TOP CHORD BOT CHORD E-H=-96/72, D-I=-102/78, C-J=-108/88, B-K=-107/76, A-K=-584/735 **WEBS** NOTES-1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip Truss designed for wind loads in the plane of the truss only
 All plates are 1.5x3 MT20 unless otherwise indicated. 4) Gable requires continuous bottom chord bearing. 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 9) Bearing at joint(s) G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 258 lb uplift at joint L, 29 lb uplift at joint G, 44 lb uplift at joint H, 58 lb uplift at joint I, 63 lb uplift at joint J and 714 lb uplift at joint K.
 11) 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.

Truss Type Qty 288 NC2015 20071754 E2 MONOPITCH 6 1 Job Reference (optional)

8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 10:01:42 2020 Page 1
ID:wtU0m002CvnP9KkLnVkYW5y7knd-c6cBdtRpe7FAD83ylaxNX0dy7wnK?0CGLDZELtyoJAt UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC 2x5 || B 10.00 12 5x4 // 10-11-13 10-11-13 Mγβ 5-1-0 B1 D С 2x3 || 3x4 =Plate Offsets (X,Y)-- [A:0-1-0,0-1-12]

LOADING (psf) SPACING- 2-0-0 CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 20.0 Plate Grip DOL 1.15 TC 0.36	Vert(LL) -0.09 C-D >906 240 MT20 244/190
TCDL 10.0 Lumber DOL 1.15 BC 0.46	Vert(CT) -0.18 C-D >459 180
BCLL 0.0 * Rep Stress Incr YES WB 0.13	Horz(CT) -0.00 C n/a n/a
BCDL 10.0 Code IRC2015/TPI2014 Matrix-MSH	Weight: 66 lb FT = 20%

BRACING-

WEBS

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 9-10-12 oc bracing.

1 Row at midpt

B-C, A-C

LUMBER-

TOP CHORD 2x6 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (lb/size) D=272/0-3-8 (min. 0-1-8), C=272/Mechanical Max Horz D=221(LC 7)
Max UpliftC=-272(LC 10)

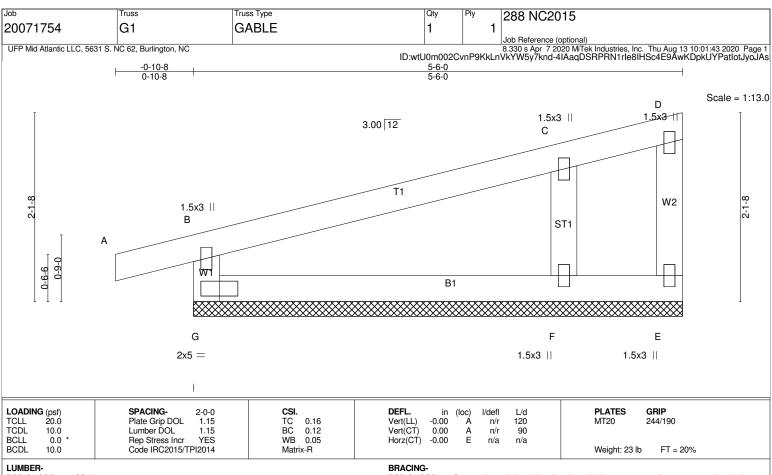
Max Grav D=273(LC 18), C=373(LC 17)

FORCES. (lb) - Maximum Compression/Maximum Tension TOP CHORD A-B=-192/139, B-C=-240/186, A-D=-221/85 BOT CHORD C-D=-336/298

WEBS A-C=-355/407

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 272 lb uplift at joint C.
 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.



TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 2x4 SP No.3 OTHERS

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.

REACTIONS. (lb/size) G=204/5-6-0 (min. 0-1-8), E=-41/5-6-0 (min. 0-1-8), F=315/5-6-0 (min. 0-1-8)

Max Horz G=76(LC 7)

Max UpliftG=-63(LC 6), E=-41(LC 1), F=-68(LC 10) Max Grav G=204(LC 1), E=11(LC 10), F=315(LC 1)

FORCES. (Ib) - Maximum Compression/Maximum Tension
TOP CHORD B-G=-174/140, A-B=0/15, B-C=-52/26, C-D=-50/48, D-E=-28/28

F-G=-26/28, E-F=-26/28 BOT CHORD

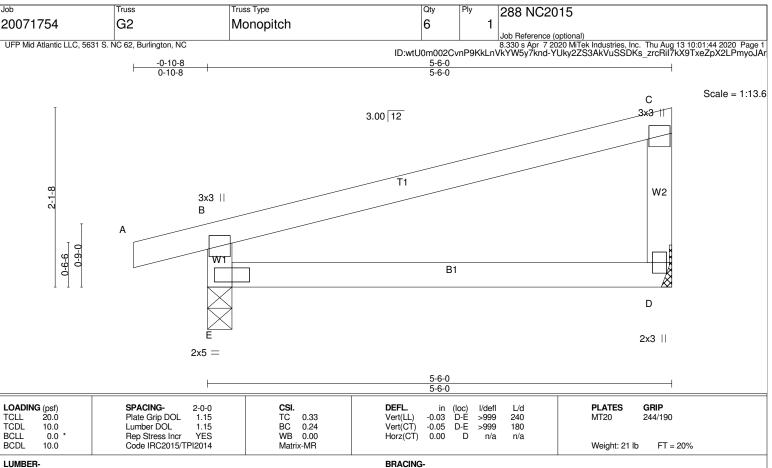
WEBS C-F=-228/182

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown;
- Lumber DOL=1.60 plate grip DOL=1.60
 2) Truss designed for wind loads in the plane of the truss only.
- 3) Gable requires continuous bottom chord bearing.4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 tal and any other members.
- 8) Bearing at joint(s) G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint G, 41 lb uplift at joint E and 68 lb uplift at joint F.

 10) 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.



TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (lb/size) D=202/Mechanical, E=276/0-3-8 (min. 0-1-8) Max Horz E=76(LC 7)

Max UpliftD=-42(LC 10), E=-77(LC 6)

 FORCES.
 (lb)
 - Maximum Compression/Maximum Tension

 TOP CHORD
 A-B=0/15, B-C=-110/44, C-D=-139/109, B-E=-235/185

 BOT CHORD
 D-E=-22/70

NOTES-

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

TOP CHORD

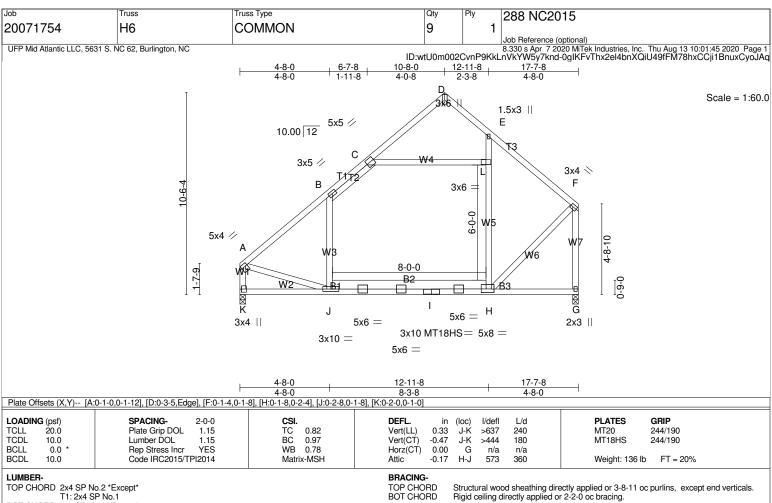
BOT CHORD

Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

- 4) Bearing at joint(s) E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint D and 77 lb uplift at joint E.
 6) 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.



TOP CHORD 2x4 SP No.2 *Except* T1: 2x4 SP No.1

BOT CHORD 2x4 SP No.1 *Except*

B1: 2x4 SP No.2, B2: 2x6 SP No.2 2x4 SP No.3 *Except*

WFBS

W3,W4: 2x4 SP No.2, W5: 2x4 SP SS

REACTIONS. (Ib/size) K=735/0-3-8 (min. 0-1-8), G=735/0-3-8 (min. 0-1-8) Max Horz K=308(LC 9) Max UpliftK=-31(LC 10), G=-59(LC 10)

Max Grav K=913(LC 19), G=941(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD A-B=-900/74, B-C=-659/164, C-D=-272/76, D-E=-214/99, E-F=-690/171, A-K=-831/68, F-G=-1022/127 BOT CHORD J-K=-337/390, I-J=-75/634, H-I=-75/634, G-H=-66/72

WEBS B-J=-120/246, C-L=-446/174, H-L=-94/216, E-L=-62/248, A-J=-74/518, F-H=-75/774

NOTES-

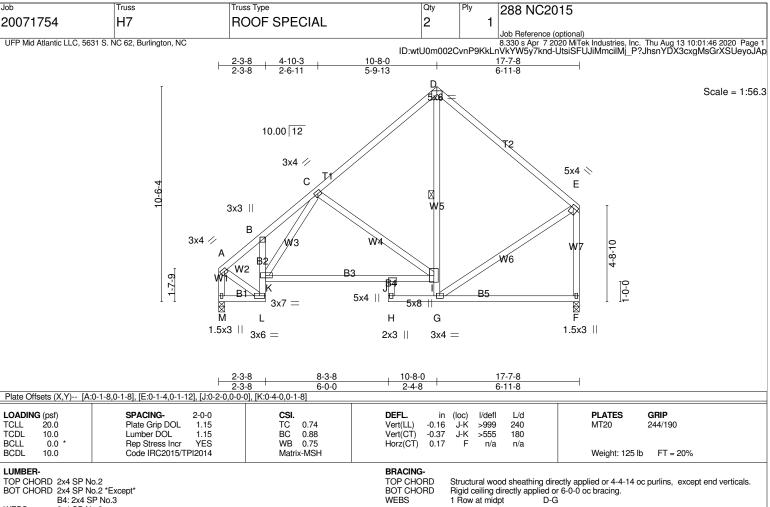
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasc=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) All plates are MT20 plates unless otherwise indicated.
 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- and any other members.

 6) Ceiling dead load (5.0 psf) on member(s). B-C, C-L

 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. H-J
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint K and 59 lb uplift at joint G.
 9) 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.
 10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



WEBS

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except*

B4: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (lb/size) M=693/0-3-8 (min. 0-1-8), F=693/0-3-8 (min. 0-1-8)

Max Horz M=308(LC 7)

Max UpliftM=-56(LC 10), F=-84(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension TOP CHORD A-B=-609/122, B-C=-820/156, C-D=-534/20

A-B=-609/122, B-C=-820/156, C-D=-534/201, D-E=-533/191, A-M=-742/117, E-F=-646/140 L-M=-292/256, K-L=-207/36, B-K=-183/71, J-K=-195/670, I-J=-165/438, H-J=-81/0, G-H=-65/232, F-G=-64/58 C-K=-109/244, A-L=-39/469, G-I=-47/193, D-I=-64/291, E-G=-50/390, C-I=-371/242 BOT CHORD

WEBS

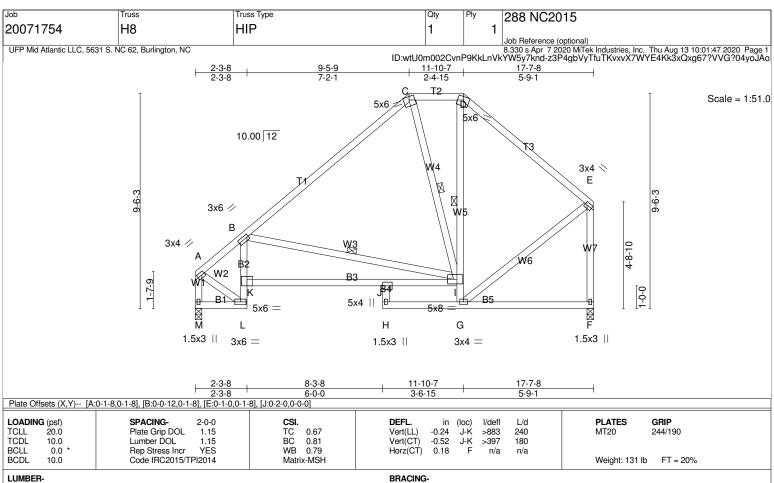
NOTES-

Unbalanced roof live loads have been considered for this design.

1) Onbalanced to the values have been considered for this besign.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will be 3-0-0 wide will be 3-0-0 wide will be 3-0-0 will be 3-0-

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint M and 84 lb uplift at joint F.
6) 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.



TOP CHORD

BOT CHORD

1 Row at midpt

WEBS

Structural wood sheathing directly applied or 5-11-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): C-D. Rigid ceiling directly applied or 6-0-0 oc bracing.

B-I, C-I, D-G

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except*

B2: 2x4 SP No.1, B4: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. (lb/size) M=693/0-3-8 (min. 0-1-8), F=693/0-3-8 (min. 0-1-8)

Max Horz M=284(LC 7)

Max UpliftM=-56(LC 10), F=-64(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension TOP CHORD A-B=-612/132. B-C=-590/174, C-D=-414/20

- Maximum Compression Maximum 1975.

A-B=-612/132, B-C=-590/174, C-D=-414/207, D-E=-517/187, A-M=-746/123, E-F=-661/137

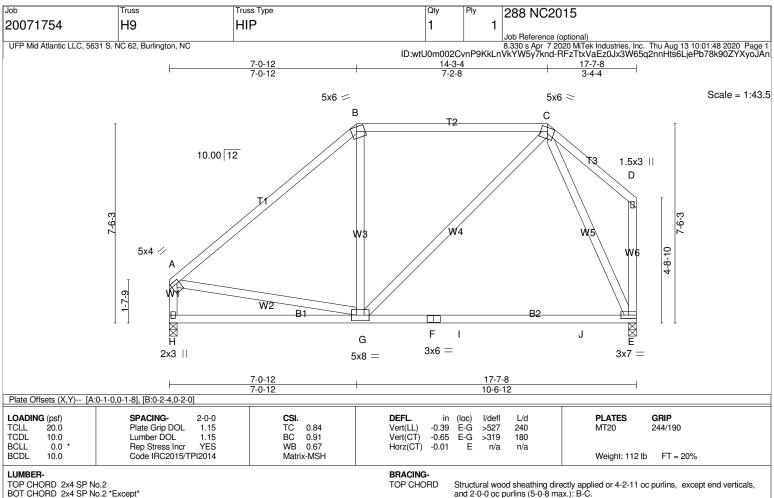
L-M=-269/223, K-L=-238/80, B-K=-128/142, J-K=-316/932, I-J=-275/733, H-J=-31/0, G-H=-88/199, F-G=-61/64

BOT CHORD

WEBS B-I=-589/309, C-I=-65/151, G-I=-55/161, D-I=-61/159, A-L=-121/573, E-G=-50/375

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vulta=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint M and 64 lb uplift at joint F.
 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



BOT CHORD

Rigid ceiling directly applied or 7-6-8 oc bracing.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except*

B2: 2x4 SP No.1

WEBS 2x4 SP No.3

REACTIONS. (lb/size) H=693/0-3-8 (min. 0-1-8), E=693/0-3-8 (min. 0-1-8)

Max Horz H=235(LC 7)
Max UpliftH=-51(LC 10), E=-36(LC 11)
Max Grav H=693(LC 1), E=711(LC 2)

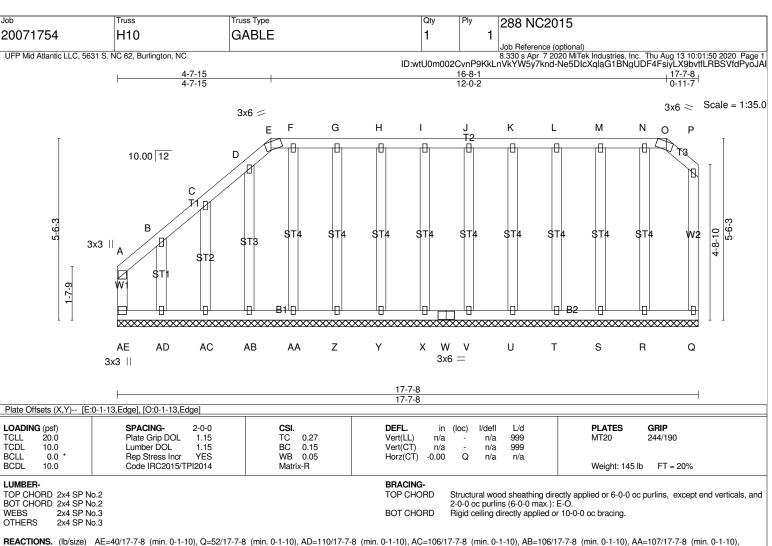
WEBS B-G=-74/149, C-G=-52/336, A-G=-73/408, C-E=-571/189

 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0osf on the bottom chord in all areas where a restaurance.

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint H and 36 lb uplift at joint E.

7) 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. 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Z=106/17-7-8 (min. 0-1-10), Y=107/17-7-8 (min. 0-1-10), X=107/17-7-8 (min. 0-1-10), V=107/17-7-8 (min. 0-1-10), Ú=107/17-7-8 (min. 0-1-10), Ú=

S=103/17-7-8 (min. 0-1-10), R=123/17-7-8 (min. 0-1-10)

Max Horz AE=186(LC 7)

Max UpliftAE=-173(LC 8), Q=-40(LC 10), AD=-243(LC 7), AC=-36(LC 10), AB=-43(LC 7), AA=-34(LC 7), A=-34(LC 7), Z=-26(LC 6), Y=-20(LC 6), X=-20(LC 7), V=-20(LC 6), U=-20(LC 7), T=-22(LC 6), S=-30(LC 7), AC=-36(LC 7), AC=-36(LC 10), A

7), R=-9(LC 6)
Max Grav AE=276(LC 7), Q=54(LC 18), AD=255(LC 8), AC=109(LC 18), AB=124(LC 17), AA=107(LC 21), Z=108(LC 22), Y=107(LC 1), X=107(LC 21), U=107(LC 21), U=107(LC 1), T=107(LC S=106(LC 21), R=123(LC 22)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD A-AE=-166/104, A-B=-194/140, B-C=-116/82, C-D=-113/90, D-E=-101/106, E-F=-92/104, F-G=-92/104, G-H=-92/104, H-I=-92/104, I-J=-92/104, I

J-K=-92/104, K-L=-92/104, L-M=-92/104, M-N=-92/104, N-O=-92/104, O-P=-120/128, P-Q=-101/95

AD-AE=-69/76, AC-AD=-69/76, AB-AC=-69/76, AA-AB=-69/76, Z-AA=-69/76, X-Z=-69/76, W-X=-69/76, V-W=-69/76, U-V=-69/76, U-V=-69/7 **BOT CHORD**

T-U=-69/76, S-T=-69/76, R-S=-69/76, Q-R=-69/76

WEBS B-AD=-146/132, C-AC=-100/70, D-AB=-93/51, F-AA=-80/52, G-Z=-81/44, H-Y=-80/37, I-X=-80/37, J-V=-80/37, K-U=-80/36, L-T=-80/37, M-S=-80/53, I-X=-80/52, G-Z=-81/44, H-Y=-80/37, I-X=-80/37, J-V=-80/37, I-X=-80/37, I-X=-80/3

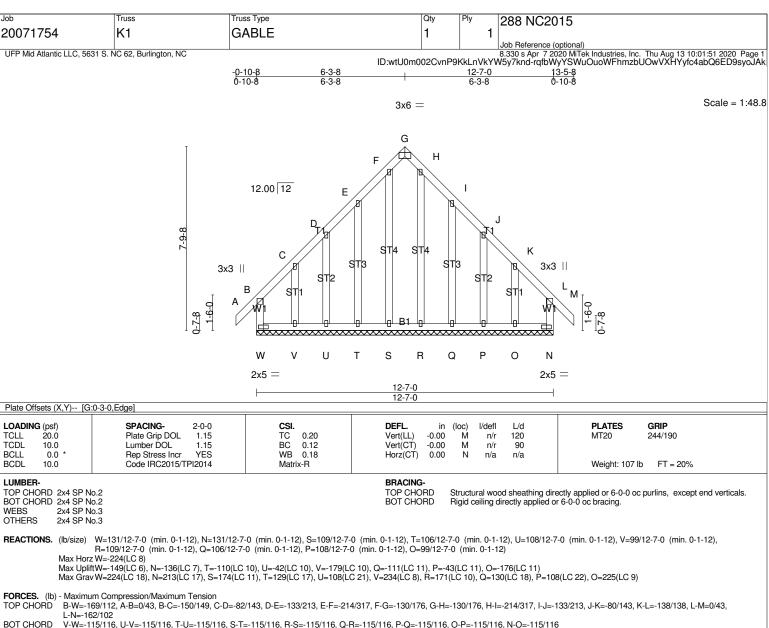
N-R=-93/48

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Truss designed for wind loads in the plane of the truss only
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 1.5x3 MT20 unless otherwise indicated
- 6) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 1-4-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint AE, 40 lb uplift at joint Q, 243 lb uplift at joint AD, 36 lb uplift at joint AC, 43 lb uplift at joint AB, 34 lb uplift at joint AA, 26 lb uplift at joint Z, 20 lb uplift at joint Y, 20 lb uplift at joint X, 20 lb uplift at joint X, at joint U, 22 lb uplift at joint T, 30 lb uplift at joint S and 9 lb uplift at joint R.

 12) 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



V-W=-115/116, U-V=-115/116, T-U=-115/116, S-T=-115/116, R-S=-115/116, Q-R=-115/116, P-Q=-115/116, O-P=-115/116, N-O=-115/116, N-

F-S=-208/92, E-T=-142/132, D-U=-100/82, C-V=-150/139, H-R=-208/92, I-Q=-142/132, J-P=-100/82, K-O=-150/137

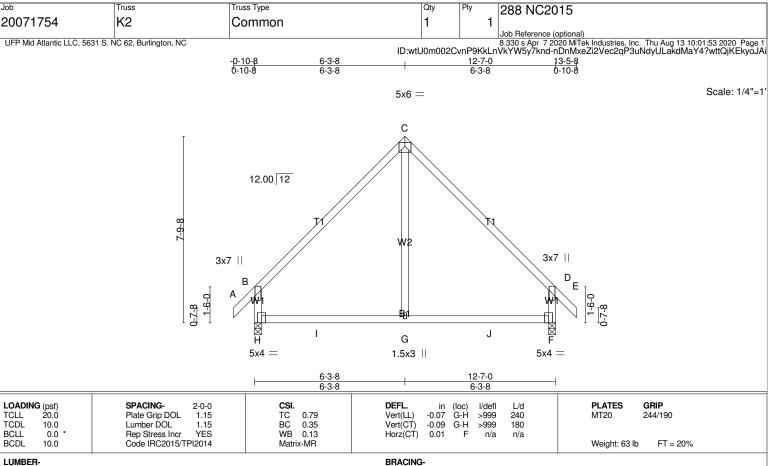
WEBS NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only.
 4) All plates are 1.5x3 MT20 unless otherwise indicated.
 5) Gable requires continuous bottom chord bearing.

- 6) Truss to be fully sheathed from 67) Gable studs spaced at 1-4-0 oc. Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Bearing at joint(s) W, N considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint W, 136 lb uplift at joint N, 110 lb uplift at joint T, 42 lb uplift at joint U, 179 lb uplift at joint V, 111 lb uplift at joint Q, 43 lb uplift at joint P and 176 lb uplift at joint O.

 12) 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.



TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (lb/size) H=553/0-3-8 (min. 0-1-8), F=553/0-3-8 (min. 0-1-8) Max Horz H=-224(LC 8) Max UpliftH=-52(LC 11), F=-52(LC 10)

Max Grav H=598(LC 18), F=598(LC 17)

FORCES. (lb) - Maximum Compression/Maximum Tension

H-I-29/339, G-I-29/339, G-J-29/339, F-J-29/339 TOP CHORD BOT CHORD

C-G=0/330

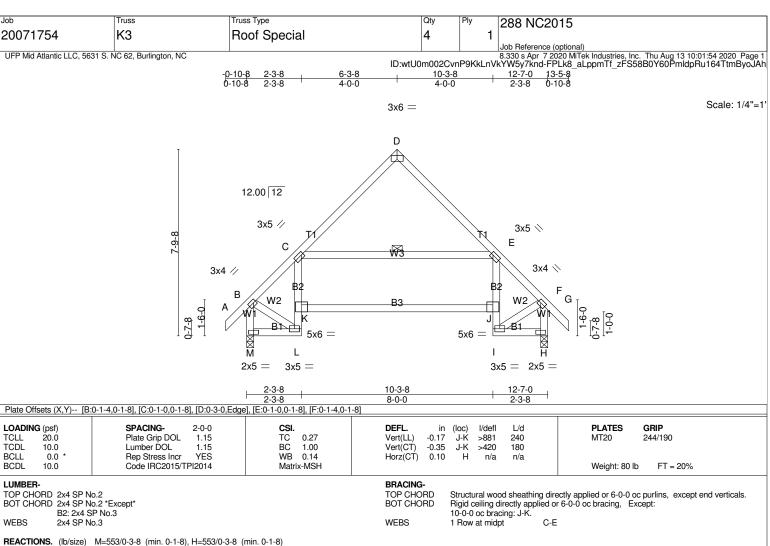
NOTES

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 5) Bearing at joint(s) H, F considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint H and 52 lb uplift at joint F. 7) 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.



Max Horz M=224(LC 9)

Max UpliftM=-52(LC 11), H=-52(LC 10)

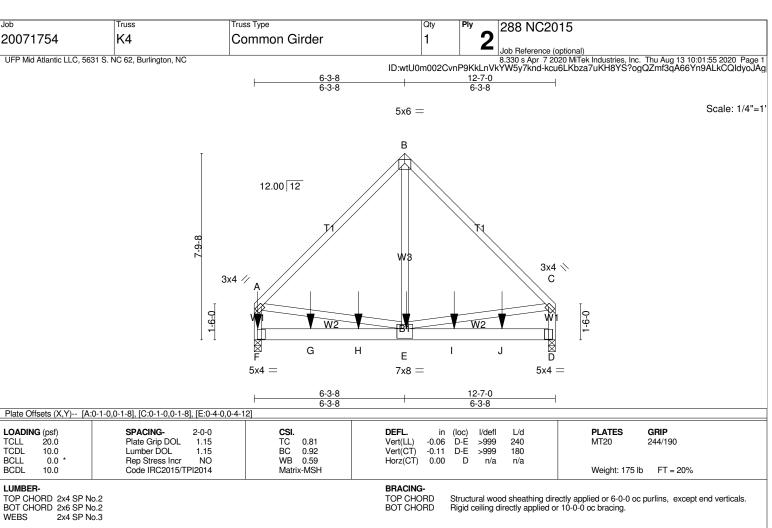
WEBS C-E=-394/141, B-L=-38/336, F-I=-42/345

NOTES-

Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 tal and any other members.
- 5) Bearing at joint(s) M, H considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint M and 52 lb uplift at joint H.
 7) 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.



REACTIONS. (lb/size) F=2987/0-3-8 (min. 0-2-12), D=2293/0-3-8 (min. 0-2-1) Max Horz F=-196(LC 4)

Max Grav F=3489(LC 2), D=2640(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD BOT CHORD

A-B=-2272/0, B-C=-2272/0, A-F=-1907/0, C-D=-1906/0 F-G=-158/401, G-H=-158/401, E-H=-158/401, E-I=-37/407, I-J=-37/407, D-J=-37/407

B-E=0/2761, A-E=0/1171, C-E=0/1165

NOTES:

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced roof live loads have been considered for this design.

4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will be 3-0-0 wide will be 3-0-0 wide will be 3-0-0 will be 3-0-
- and any other members.

 7) Bearing at joint(s) F, D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

 8) 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.

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 885 lb down at 0-1-12, 877 lb down at 2-4-4, 877 lb down at 4-4-4, 877 lb down at 6-4-4, and 877 lb down at 10-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) Attic room checked for L/360 deflection

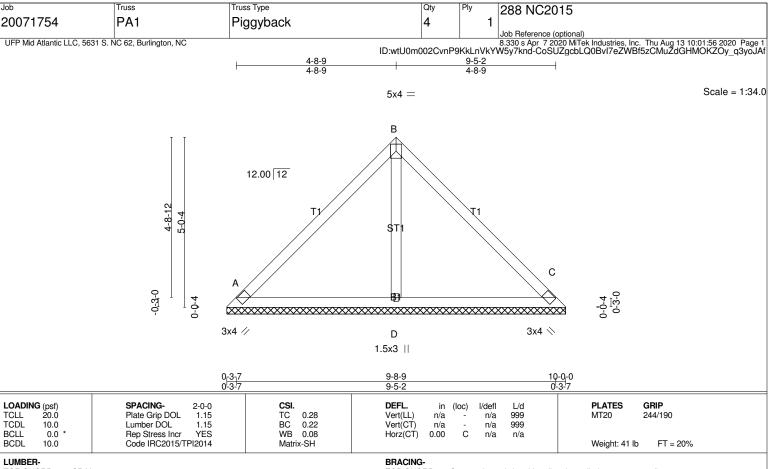
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: A-B=-60, B-C=-60, D-F=-20

Concentrated Loads (lb)

Vert: E=-715(F) F=-723(F) G=-715(F) H=-715(F) I=-715(F) J=-715(F)



TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

 $\textbf{REACTIONS.} \hspace{0.2cm} \text{(lb/size)} \hspace{0.2cm} A = 203/10 - 0 - 0 \hspace{0.2cm} \text{(min. 0-1-8), C} = 203/10 - 0 - 0 \hspace{0.2cm} \text{(min. 0-1-8), D} = 342/10 - 0 - 0 \hspace{0.2cm} \text{(min. 0-1-8)} = 342/10 - 0 - 0 \hspace{0.2cm} \text{(min. 0-1-8), D} = 342/10 - 0 - 0 \hspace{0$

Max Horz A=-115(LC 6)

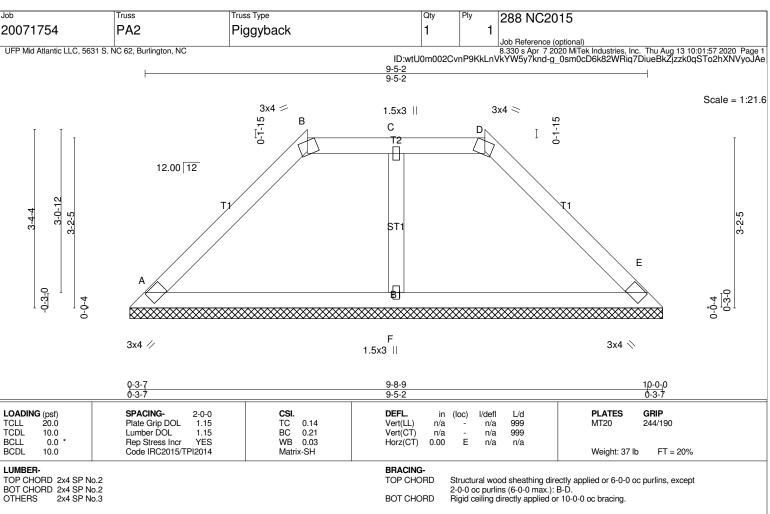
Max UpliftA=-33(LC 11), C=-33(LC 11), D=-19(LC 10)

FORCES. (Ib) - Maximum Compression/Maximum Tension TOP CHORD A-B=-180/90, B-C=-170/73 BOT CHORD A-D=-31/84, C-D=-31/84

WEBS B-D=-180/46

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Gable requires continuous bottom chord bearing.4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) 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.
- 7) Piggyback cap bottom chord to be attached to 2x4 purlins located at each end of cap bottom chord and at 24" oc max spacing with two 16d nails each.



 $\begin{array}{lll} \textbf{REACTIONS.} & \text{(lb/size)} & A=258/10\text{-}0\text{-}0 & \text{(min. 0-1-8), E}=258/10\text{-}0\text{-}0 & \text{(min. 0-1-8), F}=231/10\text{-}0\text{-}0 & \text{(min. 0-1-8), F}=231/10\text{-}0 & \text{(min. 0-1-8), F}=231/10\text$

Max Grav A=258(LC 1), E=258(LC 1), F=245(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD BOT CHORD A-B=-262/119, B-C=-168/130, C-D=-168/130, D-E=-262/119 A-F=-31/144, E-F=-31/144

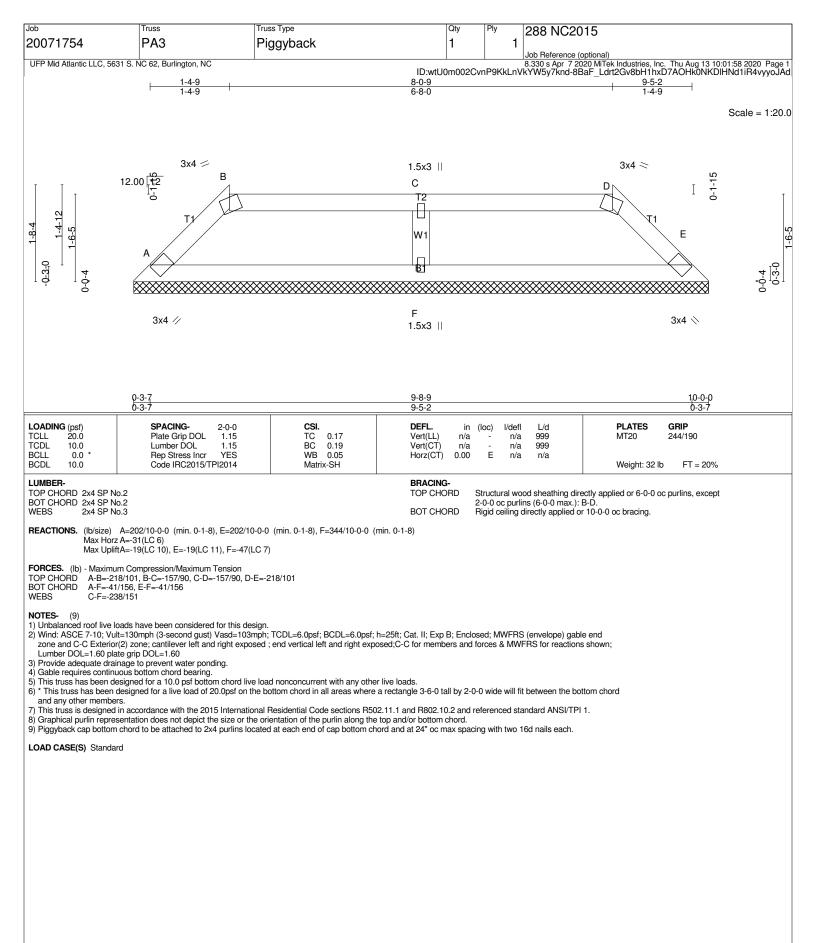
C-F=-110/56

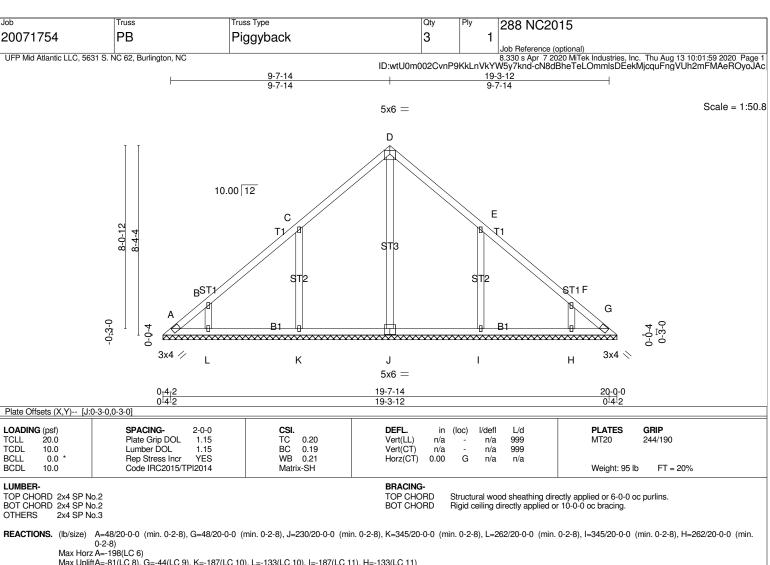
NOTES-(11)

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Truss designed for wind loads in the plane of the truss only.
- 4) Provide adequate drainage to prevent water ponding.5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will be 3-0-0 wide will be 3-0-0 wide will be 3-0-0 will be 3-0and any other members.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

 11) Piggyback cap bottom chord to be attached to 2x4 purlins located at each end of cap bottom chord and at 24" oc max spacing with two 16d nails each.





Max Upifth4=-81(LC 8), G=-44(LC 9), K=-187(LC 10), L=-133(LC 10), I=-187(LC 11), H=-133(LC 11) Max Grav A=145(LC 10), G=120(LC 11), J=388(LC 20), K=442(LC 17), L=274(LC 17), I=442(LC 18), H=274(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-234/163, B-C=-183/125, C-D=-176/170, D-E=-176/163, E-F=-140/70, F-G=-195/122
BOT CHORD A-L=-84/155, K-L=-84/155, J-K=-84/155, H-I=-84/155, G-H=-84/155 **WEBS**

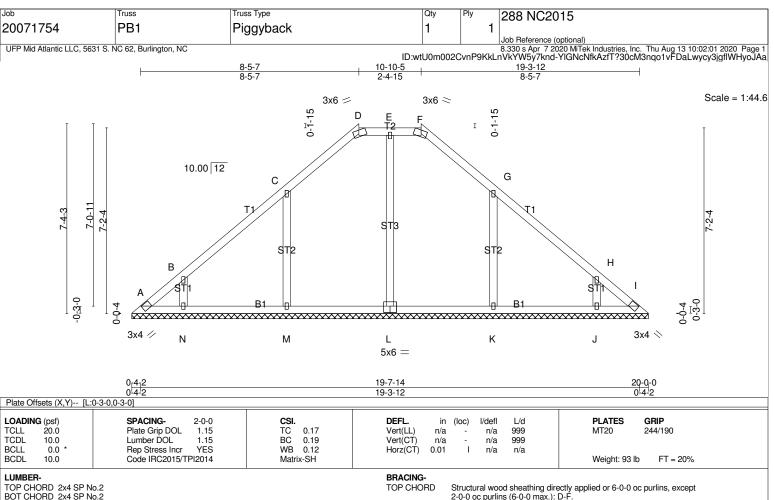
D-J=-174/10, C-K=-311/237, B-L=-235/176, E-I=-311/236, F-H=-235/176

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown;
- Lumber DOL=1.60 plate grip DOL=1.60
 3) All plates are 1.5x3 MT20 unless otherwise indicated.

4) Gable requires continuous bottom chord bearing.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint A, 44 lb uplift at joint G, 187 lb uplift at joint K, 133 lb uplift at joint L, 187 lb uplift at joint I and 133 lb uplift at joint H.

 8) 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.
- 9) See standard piggyback truss connection detail for connection to base truss.



TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=79/20-0-0 (min. 0-2-8), L=79/20-0-0 (min. 0-2-8), L=210/20-0-0 (min. 0-2-8), M=314/20-0-0 (min. 0-2-8), N=272/20-0-0 (min. 0-2-8), L=314/20-0-0 (min. 0-2-8), L=210/20-0-0 (min. 0-2-8), L=

BOT CHORD

0-2-8)

Max Horz A=-171(LC 6)

Max UpliftA=-62(LC 8), I=-43(LC 9), M=-155(LC 10), N=-143(LC 10), K=-152(LC 11), J=-144(LC 11) Max Grav A=147(LC 19), I=138(LC 20), L=343(LC 20), M=411(LC 17), N=284(LC 17), K=408(LC 18), J=285(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension

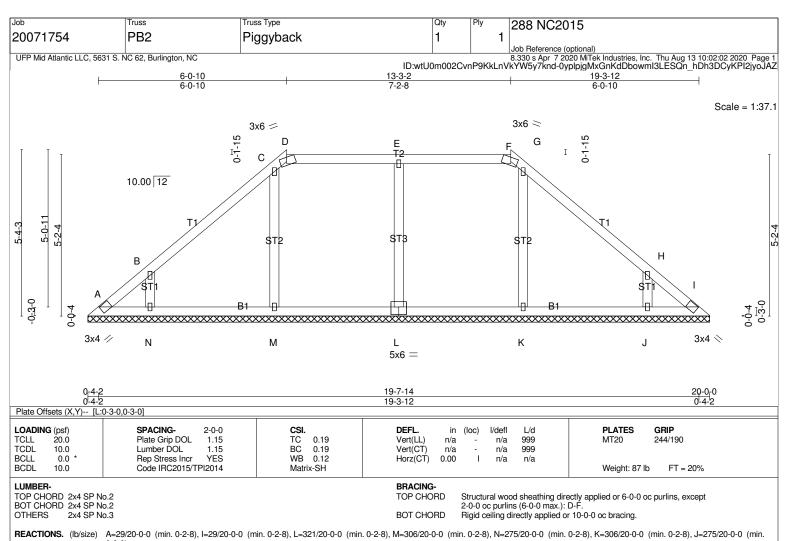
TOP CHORD A-B=-234/132, B-C=-197/90, C-D=-171/123, D-E=-131/120, E-F=-131/120, F-G=-171/123, G-H=-181/59, H-I=-214/120

BOT CHORD A-N=-79/167, M-N=-79/167, L-M=-79/167, K-L=-79/167, J-K=-79/167, J-K=-

WEBS E-L=-132/38, C-M=-269/204, B-N=-252/187, G-K=-266/202, H-J=-252/188

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.4) All plates are 1.5x3 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 tal
- and any other members, with BCDL = 10.0psf.

 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint A, 43 lb uplift at joint I, 155 lb uplift at joint M, 143 lb uplift at joint N, 152 lb uplift at joint K and 144 lb uplift at joint J.
- 9) 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.
- 10) See standard piggyback truss connection detail for connection to base truss.11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



0-2-8)

Max Horz A=-122(LC 6)

Max Upifth4=82(LC 8), I=-56(LC 9), L=-69(LC 7), M=-62(LC 10), N=-160(LC 10), K=-44(LC 11), J=-161(LC 11) Max Grav A=127(LC 10), I=109(LC 11), L=422(LC 23), M=364(LC 17), N=300(LC 17), K=344(LC 18), J=301(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-201/158, B-C=-120/106, C-D=-91/90, D-E=-50/73, E-F=-50/73, F-G=-91/90, G-H=-120/74, H-I=-173/151

BOT CHORD A-N=-100/130, M-N=-100/130, L-M=-100/130, K-L=-100/130, J-K=-100/130, I-J=-100/130

WEBS E-L=-250/116, C-M=-223/111, B-N=-267/206, G-K=-223/102, H-J=-267/208

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.4) All plates are 1.5x3 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 tal
- and any other members, with BCDL = 10.0psf.

 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint A, 56 lb uplift at joint I, 69 lb uplift at joint L, 62 lb uplift at joint M, 160 lb uplift at joint N, 44 lb uplift at joint K and 161 lb uplift at joint J.
- 9) 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.
- 10) See standard piggyback truss connection detail for connection to base truss.11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Truss Type Qty 288 NC2015 PB3 20071754 **GABLE** 1 Job Reference (optional) R.330 s Apr 7 2020 MTek Industries, Inc. Thu Aug 13 10:02:04 2020 Page 1 ID:wtU0m002CvnP9KkLnVkYW5y7knd-zKxWEPicSu12sWkA1BKXQfXoLoP_9_6VPeuP6byoJAX UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC 19-3-12 3-7-13 Scale = 1:35.9 5x6 < 5x6 = 0-1-15 C D Ε F G Н J K 10.00 12 Ι T2 0 П А А П П Μ В 3-0-11 T1 В 3-2-4 \$T8 ST2 STB STB STB STB STB STB STB st2SТ ST. Ν 0-3-0 3x4 / 3x4 < AAΖ Υ W U S R Q Р 0 Т 3x6 =20-0₋0 0-4-2 0-4-2 19-3-12 LOADING (psf) SPACING-DEFL. **PLATES GRIP** 2-0-0 in (loc) I/defl L/d 1.15 TC BC Plate Grip DOL 0.05 Vert(LL) 244/190 n/a n/a 999 TCDL 10.0 Lumber DOL 1.15 0.04 Vert(CT n/a n/a 999 BCLL WB 0.03 Ν 0.0 Rep Stress Incr YES 0.00 Horz(CT) n/a n/a BCDL Code IRC2015/TPI2014 10.0 Matrix-SH Weight: 105 lb FT = 20%LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3 2-0-0 oc purlins (6-0-0 max.): C-L **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)

 $A = 80/20 - 0 - 0 \text{ (min. } 0 - 2 - 7), \\ N = 80/20 - 0 - 0 \text{ (min. } 0 - 2 - 7), \\ V = 107/20 - 0 - 0 \text{ (min. } 0 - 2 - 7), \\ X = 105/20 - 0 - 0 \text{$ 0-2-7), AA=188/20-0-0 (min. 0-2-7), T=107/20-0-0 (min. 0-2-7), S=107/20-0-0 (min. 0-2-7), R=105/20-0-0 (min. 0-2-7), Q=116/20-0-0 (min. 0-2-7), P=68/20-0-0 (min. 0-2-7), P=68/20-0 (min. 0-2-7), P=68/20-0 (min. 0-2-7), P=68/20-0 (min. 0-2-7), P=68/20-0 O=188/20-0-0 (min. 0-2-7)

Max Horz A=-73(LC 6)

Max UpititA=8(LC 11), V=-20(LC 6), W=-20(LC 7), X=-20(LC 6), Y=-22(LC 7), Z=-8(LC 7), AA=-96(LC 10), T=-20(LC 7), S=-19(LC 6), R=-20(LC 6), Q=-22(LC 6), O=-94(LC 11) Max Grav A=86(LC 18), N=80(LC 1), V=107(LC 22), W=107(LC 21), X=105(LC 22), Y=116(LC 21), Z=75(LC 20), AA=208(LC 17), T=107(LC 21), S=107(LC 22), R=105(LC 21), Q=116(LC 22), P=105(LC 22)

P=70(LC 20), O=206(LC 18)

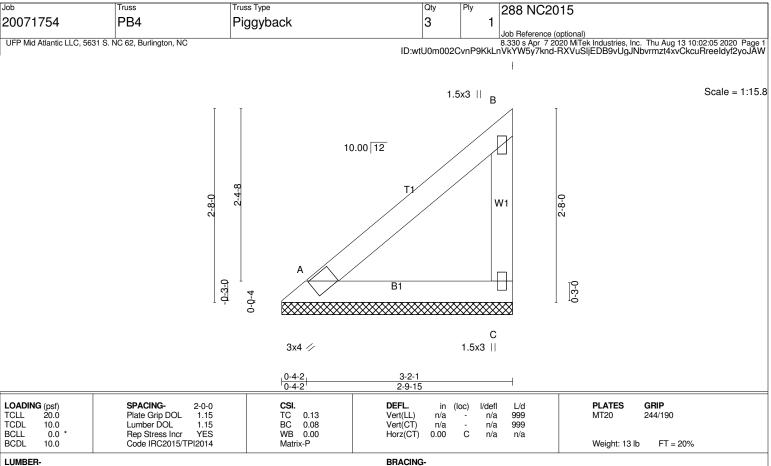
FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD A-B=-76/74, B-C=-66/68, C-D=-52/60, D-E=-51/59, E-F=-51/59, F-G=-51/59, G-H=-51/59, H-I=-51/59, I-J=-51/59, J-K=-51/59, K-L=-52/60, L-M=-66/65, M-N=-49/47 **BOT CHORD**

A-AA=-37/55, Z-AA=-37/55, Y-Z=-37/55, X-Y=-37/55, V-W=-37/55, V-W=-37/55, U-V=-37/55, S-T=-37/55, R-S=-37/55, Q-R=-37/55, P-Q=-37/55, P-Q=-37/55, N-O=-37/55, G-V=-80/37, F-W=-80/37, F-W=-80/37, E-X=-79/38, D-Y=-86/39, C-Z=-59/23, B-AA=-150/107, H-T=-80/37, I-S=-80/37, J-R=-79/38, K-Q=-86/39, L-P=-55/8, M-O=-150/106

WEBS NOTES

- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown;
- Lumber DOL=1.60 plate grip DOL=1.60
 3) Truss designed for wind loads in the plane of the truss only
- 4) Provide adequate drainage to prevent water ponding.
 5) All plates are 1.5x3 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 1-4-0 oc.
 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint A, 20 lb uplift at joint V, 20 lb uplift at joint W, 20 lb uplift at joint X, 22 lb uplift at joint Y, 8 lb uplift at joint Z, 96 lb uplift at joint AA, 20 lb uplift at joint T, 19 lb uplift at joint S, 20 lb uplift at joint R, 22 lb uplift at joint C, 20 lb uplift at joint C, 2
- 11) 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.
- 12) See standard piggyback truss connection detail for connection to base truss
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-2-1 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (lb/size) A=106/3-2-1 (min. 0-1-8), C=106/3-2-1 (min. 0-1-8) Max Horz A=83(LC 7) Max UpliftA=-1(LC 10), C=-38(LC 10) Max Grav A=108(LC 18), C=123(LC 17)

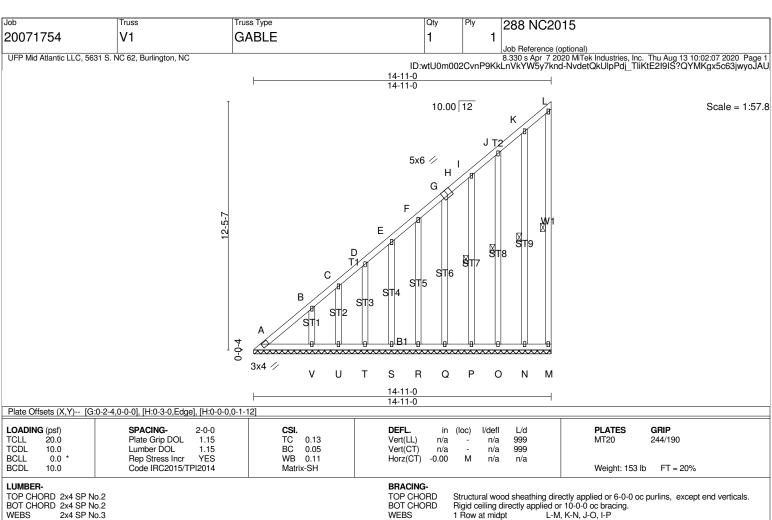
FORCES. (Ib) - Maximum Compression/Maximum Tension TOP CHORD A-B=-75/59, B-C=-96/53 BOT CHORD A-C=-40/44

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 2) date requires common beating and the date of 20.0 psf bottom chord live load nonconcurrent with any other live loads.

 4) * This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 4) * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will be 3-0-0 and any other members.

 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.



OTHERS 2x4 SP No.3

REACTIONS. (lb/size) M=41/14-11-0 (min. 0-1-8), A=83/14-11-0 (min. 0-1-8), N=106/14-11-0 (min. 0-1-8), O=109/14-11-0 (min. 0-1-8), P=107/14-11-0 (min. 0-1-8), Q=107/14-11-0 (min. 0-1-8), D=107/14-11-0 (min. 0-1-8), D=107/14-11 R=107/14-11-0 (min. 0-1-8), S=105/14-11-0 (min. 0-1-8), T=115/14-11-0 (min. 0-1-8), U=68/14-11-0 (min. 0-1-8), V=205/14-11-0 (min. 0-1-8)

Max Horz A=464(LC 10)

Max UpitMP-24(LC 10), A=-73(LC 8), N=-51(LC 10), O=-58(LC 10), P=-55(LC 10), Q=-55(LC 10), R=-55(LC 10), S=-55(LC 10), T=-59(LC 10), U=-36(LC 10), V=-106(LC 10) Max Grav M=45(LC 17), A=343(LC 10), N=115(LC 17), O=119(LC 17), P=117(LC 17), Q=117(LC 17), R=117(LC 17), S=115(LC 17), T=126(LC 17), U=74(LC 17), V=225(LC 17)

FORCES. (lb) - Maximum Compression/Maximum Tension

A-B=-559/456, B-C=-465/368, C-D=-419/339, D-E=-362/292, E-F=-306/248, F-G=-250/203, G-H=-194/142, H-I=-194/159, I-J=-139/115, J-K=-81/68, K-L=-33/22, L-M=-38/28 A-V=-0/0, U-V=-0/0, T-U=-0/0, S-T=-0/0, R-S=-0/0, Q-R=-0/0, O-P=-0/0, N-O=-0/0, M-N=-0/0 TOP CHORD BOT CHORD

K-N=-93/69, J-O=-99/73, I-P=-96/71, G-Q=-96/71, F-R=-96/71, D-T=-100/74, C-U=-72/56, B-V=-165/116

WEBS NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 tall by 3 and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint M, 73 lb uplift at joint A, 51 lb uplift at joint N, 58 lb uplift at joint O, 55 lb uplift at joint P, 55 lb uplift at joint T, 36 lb uplift at joint U and 106 lb uplift at joint T, 36 lb uplift at joint T, 36 lb uplift at joint U and 106 lb uplift at joint D, 55 lb uplift at joint T, 36 lb uplift at joint D, 55 lb uplift at jo
- 7) 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.

ob 20071754	Truss V2	Truss Type VALLEY	1 Ply 288 NC2	
UFP Mid Atlantic LLC, 56	31 S. NC 62, Burlington, NC		Job Reference 8.330 s Apr 7 2 ID:wtU0m002CvnP9KkLnVkYW5y7knd-r6l 12-6-3 12-6-3	(optional) (020 MiTek Industries, Inc. Thu Aug 13 10:02:08 2020 Page 1 B04ml7W6XUL82yG1PTaViRePjV5kP5KGscFNyoJAT
			1.5x3	Scale = 1:60.6
		10.00 12 1.5x3 B	1.5x3 C	
		A STI	B1 g g	
		3x4 // GH 1.5x3	F E 1.5x3 1.5x3	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.23 BC 0.19 WB 0.27 Matrix-SH	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 E n/a n/a	PLATES GRIP MT20 244/190 Weight: 71 lb FT = 20%
TOP CHORD 2x4 SP N BOT CHORD 2x4 SP N WEBS 2x4 SP N OTHERS 2x4 SP N	lo.2 lo.3	,	BRACING- TOP CHORD Structural wood sheathing di BOT CHORD Rigid ceiling directly applied WEBS 1 Row at midpt D-	rectly applied or 6-0-0 oc purlins, except end verticals. or 10-0-0 oc bracing. E

Max Horz A=386(LC 10)

Max UpitfA=-9(LC 8), E=-67(LC 10), F=-171(LC 10), G=-190(LC 10) Max Grav A=252(LC 10), E=186(LC 17), F=502(LC 17), G=442(LC 17)

 FORCES. (Ib) - Maximum Compression/Maximum Tension

 TOP CHORD
 A-B=-434/368, B-C=-259/219, C-D=-109/67, D-E=-115/84

 BOT CHORD
 A-G=-1/3, G-H=-1/3, F-H=-1/3, F-F=-1/3

C-F=-308/228, B-G=-313/223 WEBS

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint A, 67 lb uplift at joint E, 171 lb uplift at joint F and 190 Ib uplift at joint G.
 6) 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.

Truss Type 288 NC2015 20071754 V3 Valley 1 Job Reference (optional)

8.330 s Apr 7 2020 MiTek Industries, Inc. Thu Aug 13 10:02:09 2020 Page 1
ID:wtU0m002CvnP9KkLnVkYW5y7knd-JIIPH6mlHQfLyHd8qlwi7jEU0p3VqDkEZwbAopyoJAS UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC 3x3 || D 10.00 12 1.5x3 || С T1 1.5x3 II R B1 0-0-4 3x4 / G F Ε 1.5x3 || 1.5x3 || 3x3 || LOADING (psf) SPACING-DEFL. **PLATES** GRIP CSI. 2-0-0 in (loc) I/defl L/d TC BC Plate Grip DOL 0.76 Vert(LL) n/a 999 244/190 n/a 0.21 0.13 TCDL 10.0 Lumber DOL 1.15 Vert(CT) n/a n/a 999 BCLL YES WB 0.0 Ε Rep Stress Incr -0.00 Horz(CT) n/a n/a BCDL Code IRC2015/TPI2014 Weight: 54 lb FT = 20% 10.0 Matrix-SH LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt D-E **BOT CHORD** WEBS 2x4 SP No.3 OTHERS

REACTIONS. (lb/size) A=28/10-1-6 (min. 0-1-8), E=124/10-1-6 (min. 0-1-8), F=355/10-1-6 (min. 0-1-8), G=260/10-1-6 (min. 0-1-8)

Max Horz A=302(LC 7)

Max UpliftA=-101(LC 8), E=-74(LC 7), F=-185(LC 10), G=-134(LC 10) Max Grav A=194(LC 7), E=212(LC 17), F=460(LC 17), G=271(LC 17)

 FORCES. (lb) - Maximum Compression/Maximum Tension

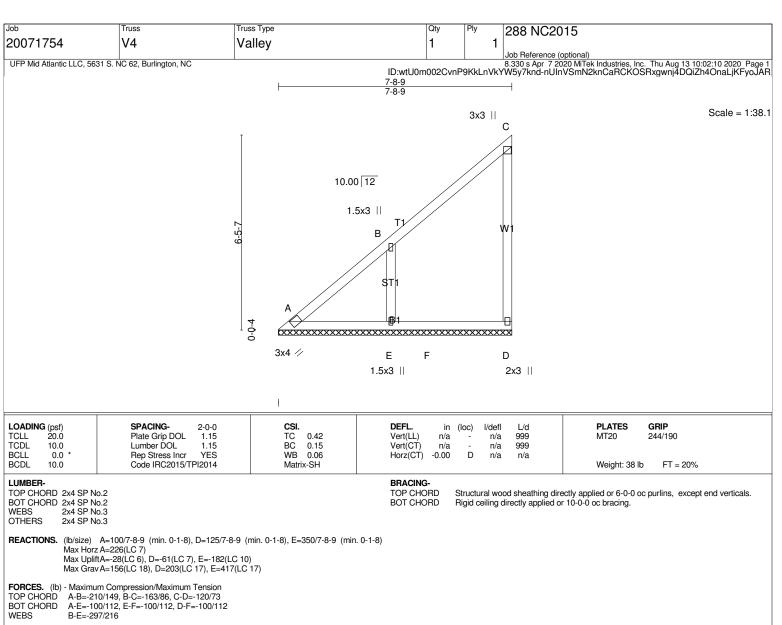
 TOP CHORD
 A-B=-302/202, B-C=-240/169, C-D=-184/117, D-E=-121/78

 BOT CHORD
 A-G=-132/146, F-G=-132/146, E-F=-132/146

WEBS C-F=-307/218, B-G=-256/195

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown;
- Lumber DOL=1.60 plate grip DOL=1.60
 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint A, 74 lb uplift at joint E, 185 lb uplift at joint F and 134 lb uplift at joint G.
 6) 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.



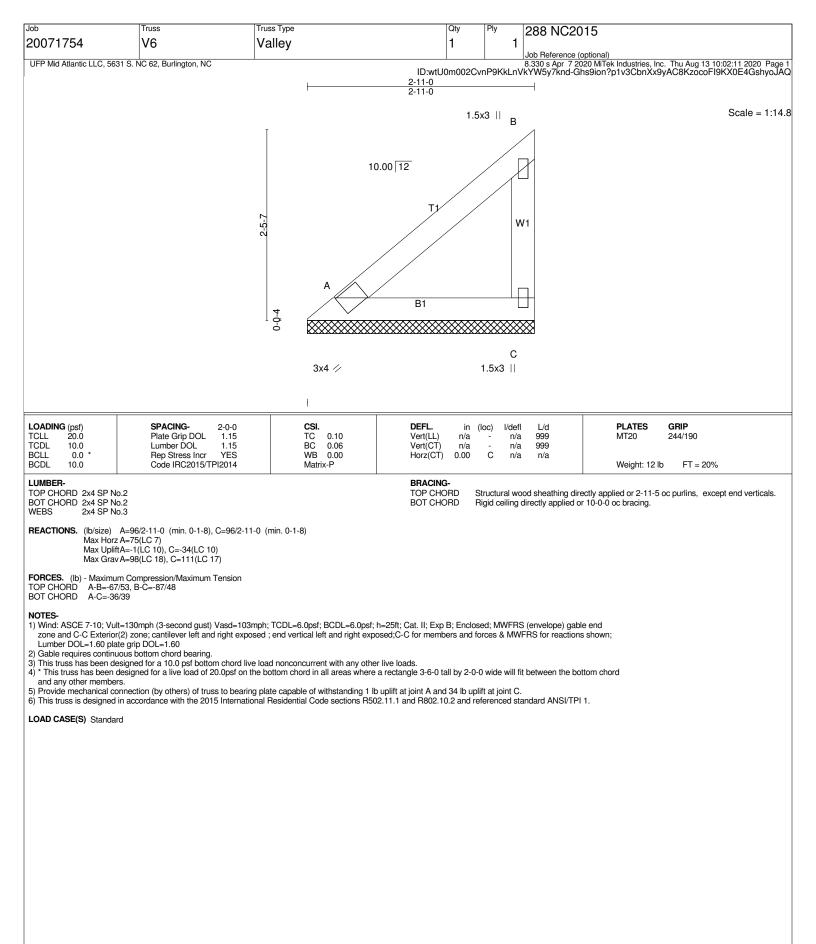
NOTES-

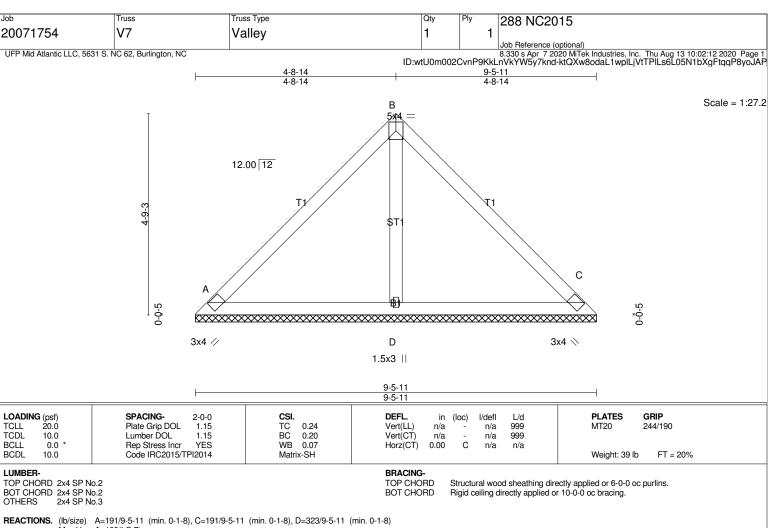
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will be 3-0-0 wide will be 3-0-0 wide will be 3-0-0 will be 3-0and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint A, 61 lb uplift at joint D and 182 lb uplift at joint E.

 6) 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.

	I -	I	lo:	I DI		
Job 20071754	Truss V5	Truss Type Valley	Qty 1	Ply 1	288 NC201	5
	31 S. NC 62, Burlington, NC	Valley	'		Job Reference (opti	ional)
OF WIN Allamic LLO, 30.	51 3. NO 02, Builington, NO		ID:wtU0m002C 5-3-13	vnP9KkLn	VkYW5y7knd-Ghs	MiTek Industries, Inc. Thu Aug 13 10:02:11 2020 Page 1 9ion?p1v3CbnXx9yAC8Kwcclel9KX0E4GshyoJAQ
		-	5-3-13		1	
			3	x3		Scale = 1:26.7
		T		В	1	
					1	
		10.00	12		,	
		10.00	12			
			//			
	4.5.7		77/	W1	1	
	4					
		A //				
		\$ **********	B1			
		0 *************************************	***************************************		1	
		3x4 //		С	5.0.11	
				1.	.5x3	
		ı				
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.31	DEFL. in (Vert(LL) n/a	- n/a	a 999	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.23 WB 0.00	Vert(CT) n/a Horz(CT) -0.00			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-SH				Weight: 23 lb FT = 20%
TOP CHORD 2x4 SP N						ly applied or 5-4-2 oc purlins, except end verticals.
BOT CHORD 2x4 SP No WEBS 2x4 SP No			BOT CHORD F	Rigid ceiling	directly applied or 10	0-0-0 oc bracing.
	A=192/5-3-13 (min. 0-1-8), C=192/5	-3-13 (min. 0-1-8)				
Max Uplif	: A=151(LC 7) tA=-2(LC 10), C=-68(LC 10)					
	A=195(LC 18), C=222(LC 17)					
TOP CHORD A-B=-16						
BOT CHORD A-C=-49	9/66					
	t=130mph (3-second gust) Vasd=103					
Lumber DOL=1.60 pla	r(2) zone; cantilever left and right expo te grip DOL=1.60 Jous bottom chord bearing.	sea ; ena vertical lett and right expo	osea;C-C for members and ic	orces & ivivi	VFHS for reactions st	nown;
3) This truss has been de	esigned for a 10.0 psf bottom chord liv			النب مانال و	fit batuaan the battar	m shard
and any other member			,			ni criora
	onnection (by others) of truss to bearing in accordance with the 2015 Internation					
LOAD CASE(S) Standar	rd					





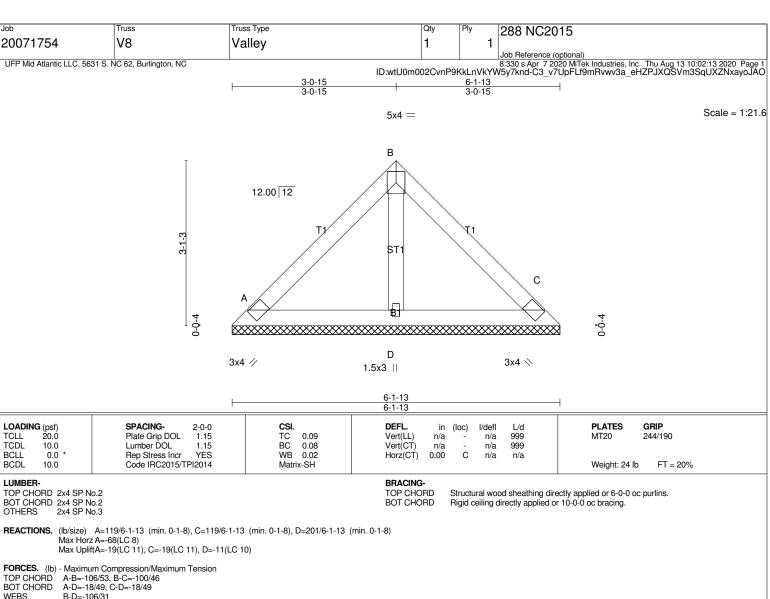
Max Horz A=109(LC 7)

Max UpliftA=-31(LC 11), C=-31(LC 11), D=-18(LC 10)

FORCES. (Ib) - Maximum Compression/Maximum Tension TOP CHORD A-B=-171/85, B-C=-161/70 BOT CHORD A-D=-30/79, C-D=-30/79

WEBS B-D=-170/45

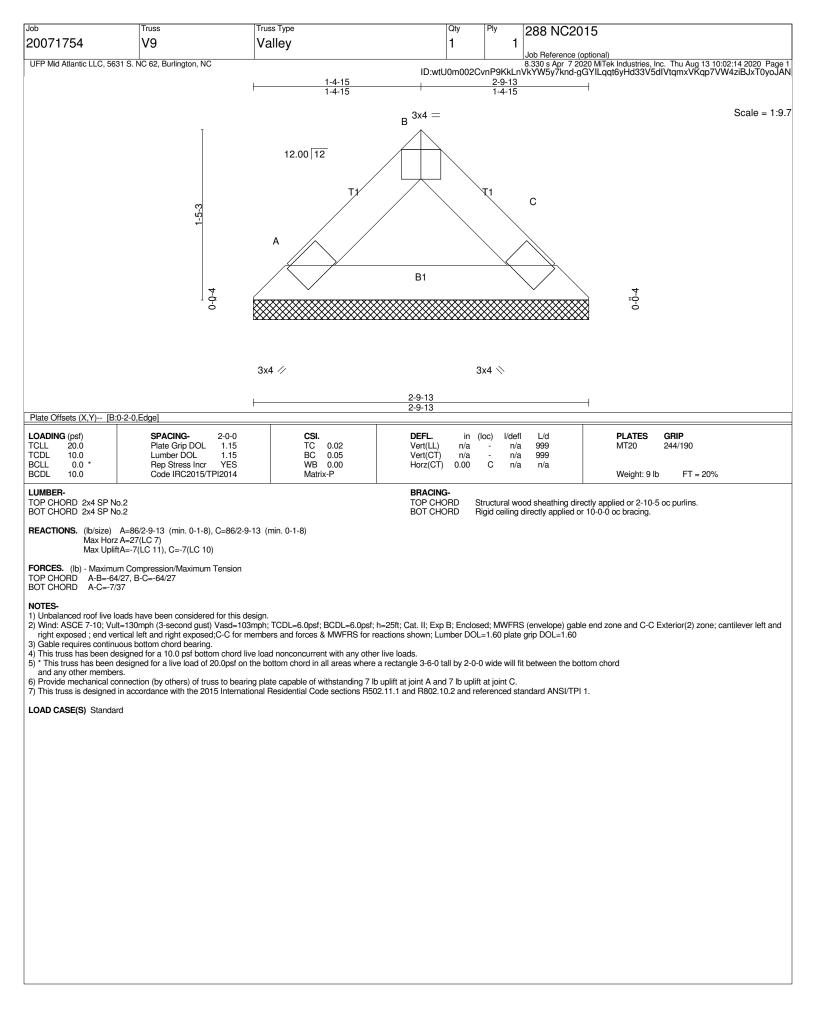
- 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint A, 31 lb uplift at joint C and 18 lb uplift at joint D.
- 7) 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.

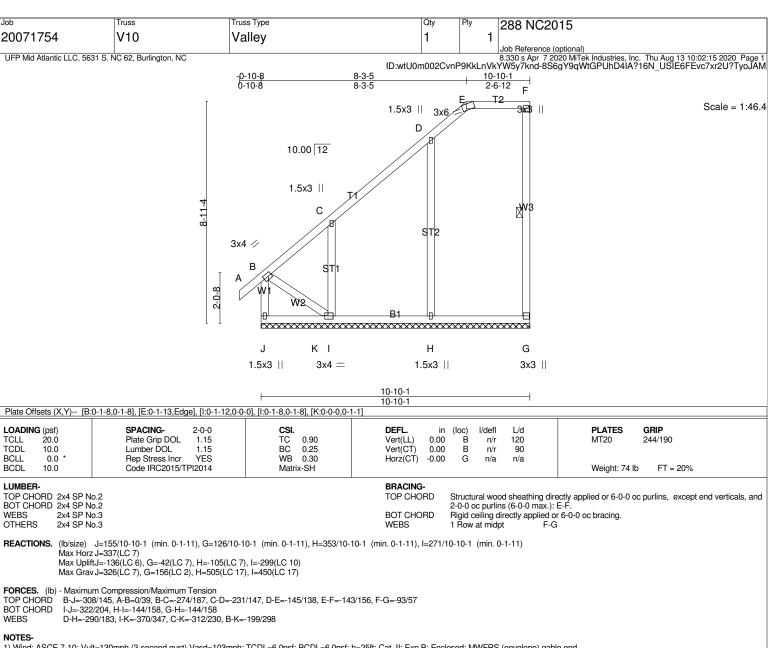


B-D=-106/31

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Gable requires continuous bottom chord bearing.4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint A, 19 lb uplift at joint C and 11 lb uplift at joint D.
- 7) 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.



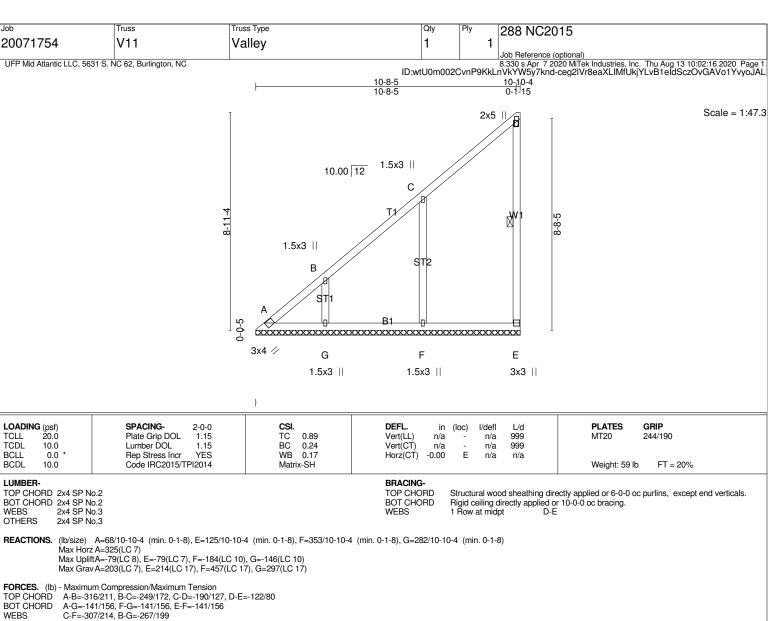


1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.3) Gable requires continuous bottom chord bearing.

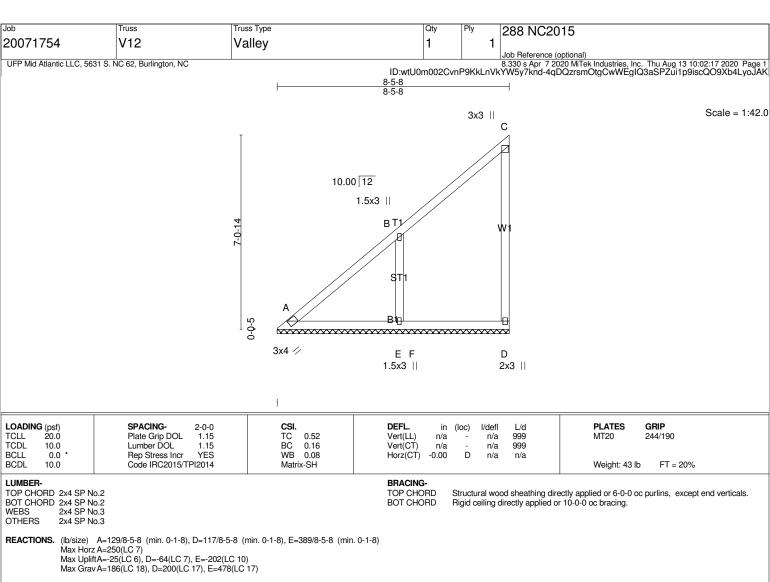
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint J, 42 lb uplift at joint G, 105 lb uplift at joint H and
- 7) 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.

8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown;
- Lumber DOL=1.60 plate grip DOL=1.60
 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will be 3-0-0 wide will be 3-0-0 wide will be 3-0-0 will be 3-0and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint A, 79 lb uplift at joint E, 184 lb uplift at joint F and 146 lb uplift at joint G.
- 6) 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.



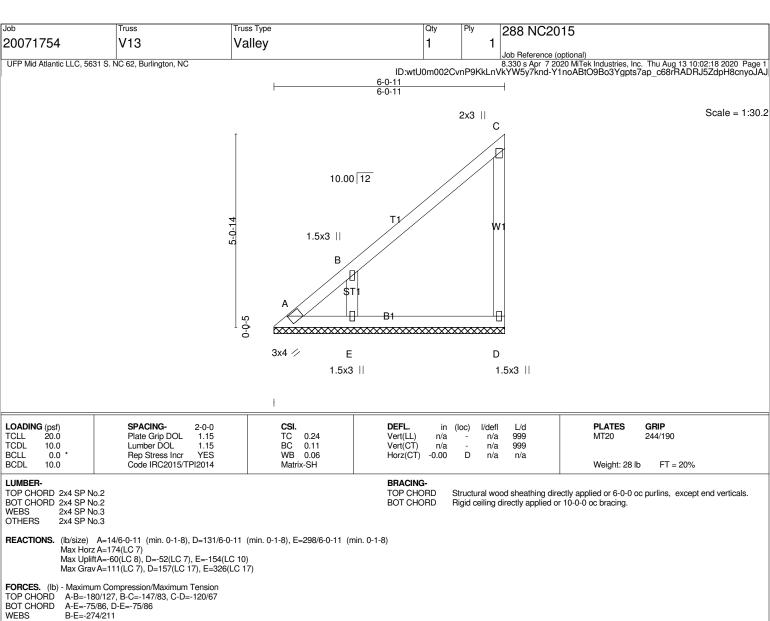
WEBS B-E=-322/229

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will be 3-0-0 wide will be 3-0-0 wide will be 3-0-0 will be 3-0and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint A, 64 lb uplift at joint D and 202 lb uplift at joint E.

 6) 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.

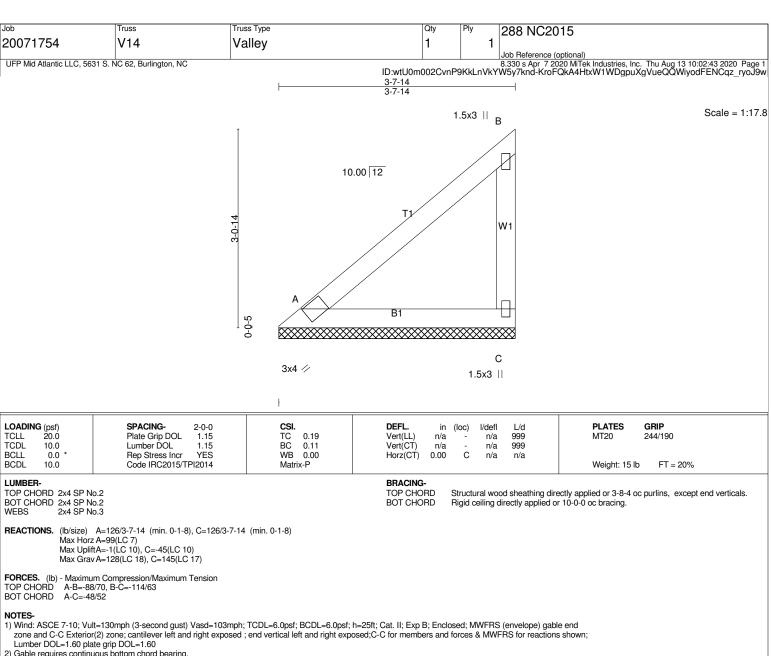


NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) Gable requires continuous bottom chord bearing.

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will be 3-0-0 wide will be 3-0-0 wide will be 3-0-0 will be 3-0-
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint A, 52 lb uplift at joint D and 154 lb uplift at joint E.

 6) 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.



- 2) Gable requires continuous bottom chord bearing.
- 2) date requires common beating and the date of 20.0 psf bottom chord live load nonconcurrent with any other live loads.

 4) * This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 4) * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will fit between the bottom chord in all areas where a rectangle 3-6-0 tall by 3-0-0 wide will be 3-0-0 will be 3-0-0
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint A and 45 lb uplift at joint C.
 6) 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.