

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(LL) -0.17 R-S >968 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.51	Vert(CT) -0.27 R-S >600 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) -0.03 O n/a n/a		
	Code IRC2015/TPI2014		Attic -0.05 V-W 920 360	Weight: 319 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
T2: 2x4 SP No.2
BOT CHORD 2x10 SP No.1 *Except*
B2: 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
W5: 2x6 SP No.2, W7, W6, W3: 2x4 SP No.3
SLIDER Left 2x6 SP No.2 -A 1-11-12, Right 2x6 SP No.2 -A 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-1 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); G-1.
BOT CHORD Rigid ceiling directly applied or 9-6-8 oc bracing.
WEBS 1 Row at midpt K-V
JOINTS 1 Brace at Jt(s): S, AA

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz B=265(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) O except B=127(LC 10), W=147(LC 6), Y=144(LC 10)
Max Grav All reactions 250 lb or less at joint(s) except B=1275(LC 18), O=1502(LC 18), W=1336(LC 19), Y=871(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-307/35, C-D=-1315/171, D-E=-1149/176, E-F=-1154/310, F-G=-400/101, G-H=-250/111, I-J=-398/119, J-K=-1028/314, K-L=-1251/294, L-M=-1421/218, M-N=-1455/119, N-O=-578/65
BOT CHORD B-AJ=-97/1123, Z-AJ=-97/1123, Y-Z=-97/1123, X-Y=-97/1123, W-X=-97/1123, V-W=-97/1123, T-V=-64/1239, Q-T=-64/1239, O-Q=-77/1176
WEBS F-AA=-966/306, J-AA=-966/306, U-V=-387/227, K-U=-339/249, Q-R=-548/396, M-R=-502/416, S-T=-549/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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.
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). E-F, J-K, K-M, F-AA, J-AA
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. Y-Z, W-Y, V-W, S-U, R-S
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) O except (jt=lb) B=127, W=147, Y=144.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.

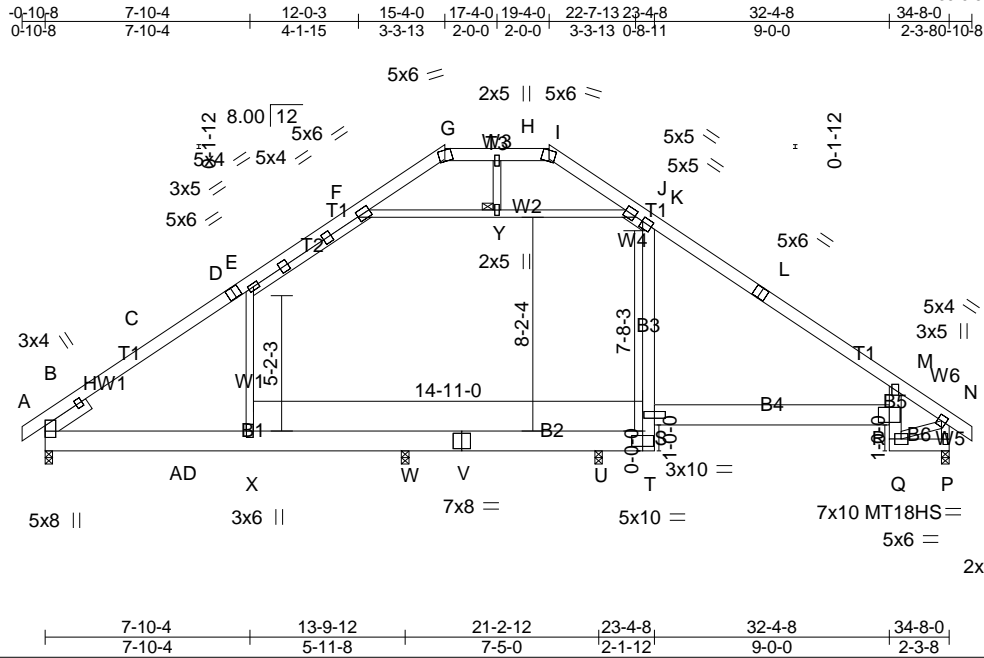
LOAD CASE(S) Standard



Job 19032063	Truss A1A	Truss Type ROOF TRUSS	Qty 4	Ply 1	NELSON CLASSIC PORCH
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD 8.310 s May 22 2019 MiTek Industries, Inc. Fri Sep 6 07:37:47 2019 Page 1
 ID:xhizMnvGHv6zQ6pXlgn70Kzc57X-6lbehYYqVFqrvQMn32B0kujk1sG2lzE2KYtErtygR1o



Scale = 1:88.3

Plate Offsets (X,Y)-- [K:0-0-4,0-2-4], [N:0-1-12,0-2-8]

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 2-0-0 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.60 BC 0.90 WB 0.41 Matrix-MSH	DEFL. in (loc) l/defl L/d Vert(LL) -0.19 R-S >845 240 Vert(CT) -0.30 R-S >537 180 Horz(CT) 0.20 P n/a n/a Attic -0.06 T-U 766 360	PLATES GRIP MT20 244/190 MT18HS 244/190 Weight: 302 lb FT = 20%
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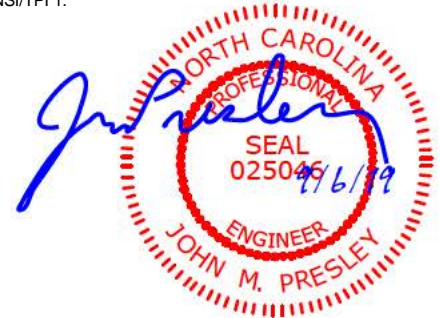
LUMBER- TOP CHORD 2x6 SP No.2 *Except* T2: 2x4 SP No.2 BOT CHORD 2x6 SP No.2 *Except* B1,B4,B2: 2x10 SP No.1 WEBS 2x4 SP No.2 *Except* W6,W5,W3: 2x4 SP No.3 SLIDER Left 2x6 SP No.2 -A 1-11-12	BRACING- TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): G-I. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-4-4 oc bracing: Q-R. 6-0-0 oc bracing: K-T JOINTS 1 Brace at Jt(s): Y
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REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz B=295(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) W except B=145(LC 10), P=107(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) except B=1190(LC 18), P=1325(LC 18), W=932(LC 18), U=1329(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-343/8, C-D=-1134/176, D-E=-947/181, E-F=-1060/315, F-G=-438/91, G-H=-292/87, H-I=-292/87,
 I-J=-451/95, J-K=-935/317, K-L=-1212/318, L-M=-1356/274, M-N=-1237/195, N-P=-1375/201
 BOT CHORD B-AD=-170/991, X-AD=-170/991, W-X=-170/991, V-W=-170/991, U-V=-170/991, T-U=-170/991, S-T=-754/198,
 K-S=-382/238, R-S=-146/1103, Q-R=-427/82, M-R=-349/184
 WEBS E-X=-282/196, F-Y=-754/320, J-Y=-754/320, N-Q=-136/1025

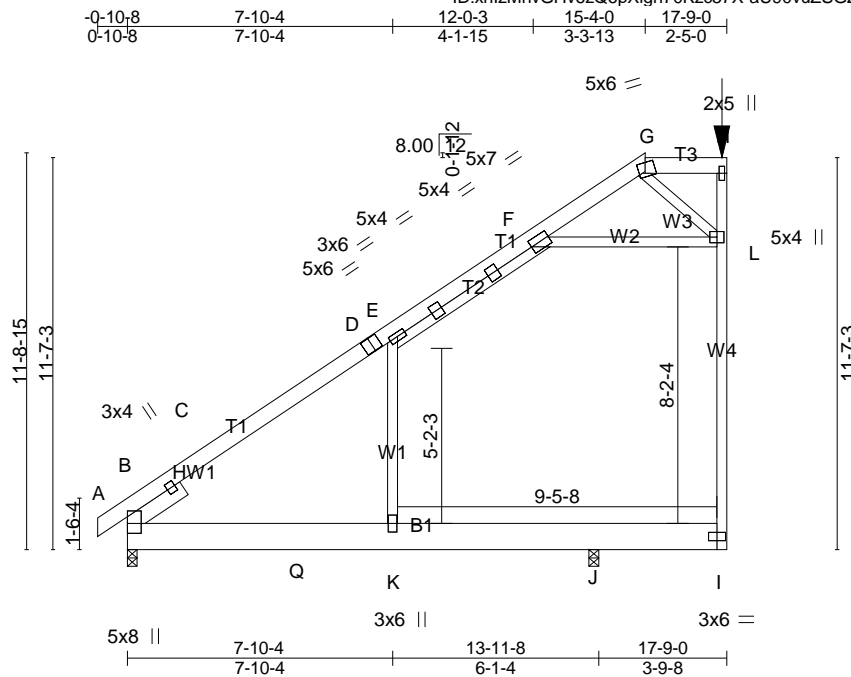
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end 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) All plates are MT20 plates unless otherwise indicated.
 - 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 and any other members, with BCDL = 10.0psf.
 - 7) Ceiling dead load (5.0 psf) on member(s). E-F, J-K, K-M, F-Y, J-Y
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. W-X, U-W, T-U, R-S
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) W except (it=lb) B=145, P=107, U=192.
 - 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.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.





Scale = 1:68.2

Plate Offsets (X,Y)-- [G:0-3-0,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.92	Vert(LL) 0.19 K-O >883 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.41	Vert(CT) -0.26 K-O >648 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.06 B n/a n/a		
	Code IRC2015/TPI2014		Attic -0.12 I-J 758 360		
				Weight: 170 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T2: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): G-H.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.2 *Except* W3: 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 -A 1-11-12	

REACTIONS. (lb/size) B=529/0-3-8 (min. 0-1-8), J=1190/0-3-8 (min. 0-2-4)
 Max Horz B=414(LC 9)
 Max Uplift B=21(LC 10), J=-188(LC 10)
 Max Grav B=585(LC 19), J=1933(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-359/196, C-D=-534/466, D-E=-491/473, E-F=-321/144, I-L=-568/184, H-L=-307/90
 WEBS E-K=-714/437, F-L=-324/376, G-L=-441/260

- 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) Ceiling dead load (5.0 psf) on member(s). E-F, F-L
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. J-K, I-J
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B except (jt=b) J=188.
 - 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 291 lb down and 31 lb up at 17-7-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 12) 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-E=-60, E-F=-70, F-G=-60, G-H=-60, I-M=-20, F-L=-10
 Concentrated Loads (lb)
 Vert: H=-160



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCE and Truss Plate Institute.



Job 19032063	Truss A3	Truss Type ROOF TRUSS	Qty 3	Ply 1	NELSON CLASSIC PORCH
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD
 8.310 s May 22 2019 MiTek Industries, Inc. Fri Sep 6 07:37:49 2019 Page 1
 ID: xhlzMnvGHv6zQ6pXlgn70Kzc57X-2hjO6Ea51t5Z8kWAATEspJoA7g4mmrvLnsMLwlygR1m

0-10-8	4-2-0	7-10-4	12-0-3	15-4-0	17-4-0	19-4-0	21-2-12	23-4-8	28-2-1	33-4-8	34-8-0
0-10-8	4-2-0	3-8-4	4-1-15	3-3-13	2-0-0	2-0-0	1-10-12	2-1-12	4-9-9	5-2-7	1-3-8

Scale = 1:89.7

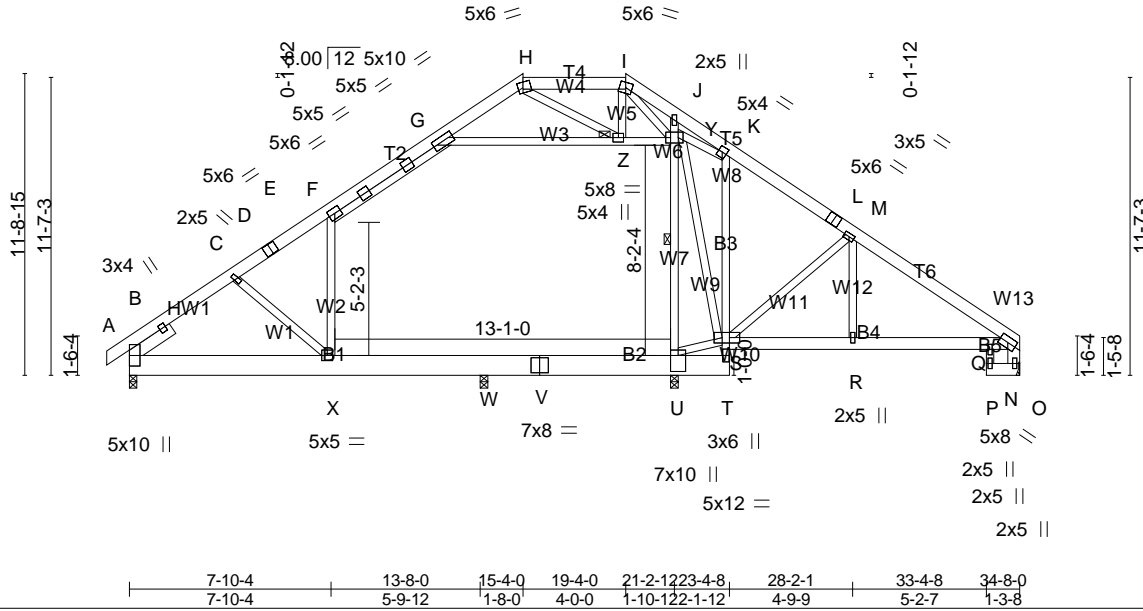


Plate Offsets (X,Y)-- [H:0-3-0,0-0-4], [K:0-1-12,0-2-8], [O:0-2-8,0-2-4], [S:0-4-12,0-2-8], [U:0-7-8,0-3-8]

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 2-0-0 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.17 BC 0.43 WB 0.53 Matrix-MSH	DEFL. in (loc) l/defl L/d Vert(LL) 0.08 X-AC >999 240 Vert(CT) -0.13 X-AC >999 180 Horz(CT) 0.05 O n/a n/a Attic -0.07 W-X 2042 360	PLATES MT20 GRIP 244/190 Weight: 335 lb FT = 20%
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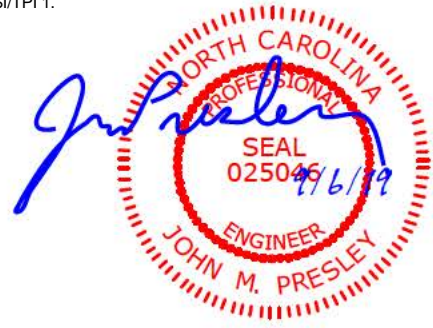
LUMBER- TOP CHORD 2x6 SP No.2 *Except* T2,T1: 2x6 SP SS, T3: 2x4 SP No.2 BOT CHORD 2x6 SP No.2 *Except* B1,B2: 2x10 SP No.1, B3,B5: 2x4 SP No.3 WEBS 2x4 SP No.3 *Except* W2,W7,W3: 2x4 SP No.2, W13: 2x6 SP No.2 SLIDER Left 2x6 SP No.2 -A 1-11-12	BRACING- TOP CHORD Structural wood sheathing directly applied or 5-10-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); H-I. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: S-T. WEBS 1 Row at midpt U-Y JOINTS 1 Brace at Jt(s): Z
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REACTIONS. All bearings 0-3-8 except (jt=length) O=Mechanical.
 (lb) - Max Horz B=290(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) W except B=168(LC 10), O=138(LC 10), U=204(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) except B=1095(LC 18), O=1000(LC 1), U=680(LC 19), W=1038(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-695/111, C-D=-1139/231, D-E=-999/203, E-F=-910/216, F-G=-944/309, G-H=-378/133, I-J=0/278, J-K=-25/349, K-L=-1046/340, L-M=-1117/311, M-N=-1458/294, N-O=-995/196
 BOT CHORD B-X=-252/1103, W-X=-191/896, V-W=-191/896, U-V=-191/896, K-S=-86/374, R-S=-141/1140, Q-R=-141/1140, N-Q=-123/1105
 WEBS U-Y=-631/117, S-U=-188/882, M-S=-450/188, S-Y=-93/279, G-Z=-656/282, Y-Z=-725/319, I-Y=-601/66, K-Y=-1118/356, D-X=-281/181

- 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.
 - 6) Ceiling dead load (5.0 psf) on member(s). F-G, G-Z, Y-Z
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. W-X, U-W
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) W except (jt=lb) B=168, O=138, U=204.
 - 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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 19032063	Truss A4	Truss Type ROOF TRUSS	Qty 2	Ply 1	NELSON CLASSIC PORCH
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD Job Reference (optional) 8.310 s May 22 2019 MiTek Industries, Inc. Fri Sep 6 07:37:49 2019 Page 1

0-10-8	4-2-0	7-10-4	12-0-3	15-4-0	17-4-0	19-4-0	21-2-12	23-4-8	28-2-1	33-4-8	34-8-0
0-10-8	4-2-0	3-8-4	4-1-15	3-3-13	2-0-0	2-0-0	1-10-12	2-1-12	4-9-9	5-2-7	1-3-8

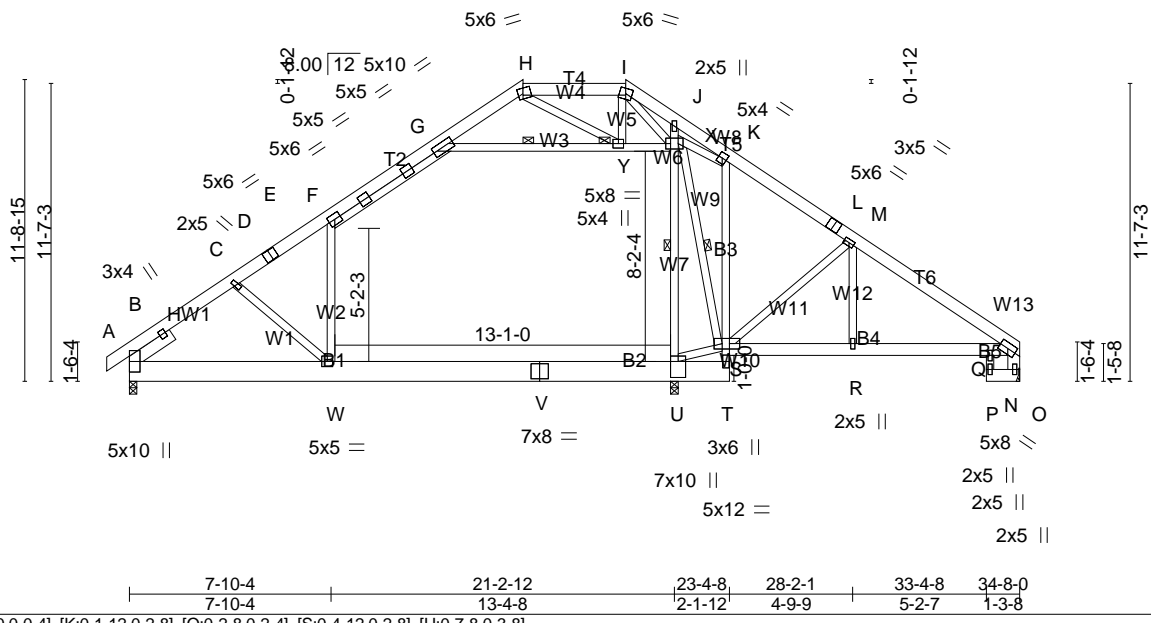


Plate Offsets (X,Y)-- [H:0-3-0,0-0-4], [K:0-1-12,0-2-8], [O:0-2-8,0-2-4], [S:0-4-12,0-2-8], [U:0-7-8,0-3-8]

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 2-0-0 Lumber DOL 1.15 Rep Stress Incr 1.15 Code IRC2015/TPI2014	CSI. TC 0.59 BC 0.98 WB 0.60 Matrix-MSH	DEFL. in (loc) l/defl L/d Vert(LL) -0.29 U-W >886 240 Vert(CT) -0.42 U-W >600 180 Horz(CT) 0.05 O n/a n/a Attic -0.19 U-W 857 360	PLATES MT20 GRIP 244/190 Weight: 335 lb FT = 20%
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LUMBER- TOP CHORD 2x6 SP No.2 *Except* T2,T1: 2x6 SP SS, T3: 2x4 SP No.2 BOT CHORD 2x6 SP No.2 *Except* B1,B2: 2x10 SP No.1, B3,B5: 2x4 SP No.3 WEBS 2x4 SP No.3 *Except* W2,W7,W3: 2x4 SP No.2, W13: 2x6 SP No.2 SLIDER Left 2x6 SP No.2 -A 1-11-12	BRACING- TOP CHORD Structural wood sheathing directly applied or 5-3-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); H-1. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. WEBS 1 Row at midpt U-X, S-X, G-Y JOINTS 1 Brace at Jt(s): Y
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REACTIONS. (lb/size) B=1304/0-3-8 (min. 0-1-14), O=1105/Mechanical, U=533/0-3-8 (min. 0-1-8)
Max Horz B=290(LC 9)
Max Uplift B=188(LC 10), O=147(LC 10), U=142(LC 6)
Max Grav B=1604(LC 18), O=1183(LC 18), U=936(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-806/114, C-D=-1995/244, D-E=-1820/216, E-F=-1723/229, F-G=-1454/317, G-H=-338/132, I-J=0/270, J-K=-23/323, K-L=-1419/356, L-M=-1539/327, M-N=-1826/300, N-O=-1171/199
BOT CHORD B-W=-279/1783, V-W=-168/1480, U-V=-168/1480, S-T=-1172/0, K-S=-83/466, R-S=-154/1467, Q-R=-154/1467, N-Q=-136/1426
WEBS F-W=0/608, U-X=-326/908, S-U=-157/1642, M-S=-421/191, S-X=-847/64, G-Y=-1388/311, X-Y=-1311/343, I-X=-590/65, K-X=-1457/361, D-W=-410/186

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=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.
 - 6) Ceiling dead load (5.0 psf) on member(s). F-G, G-Y, X-Y
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. U-W
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=188, O=147, U=142.
 - 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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



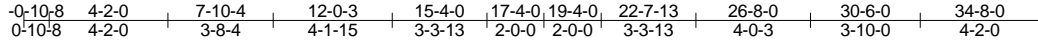
This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



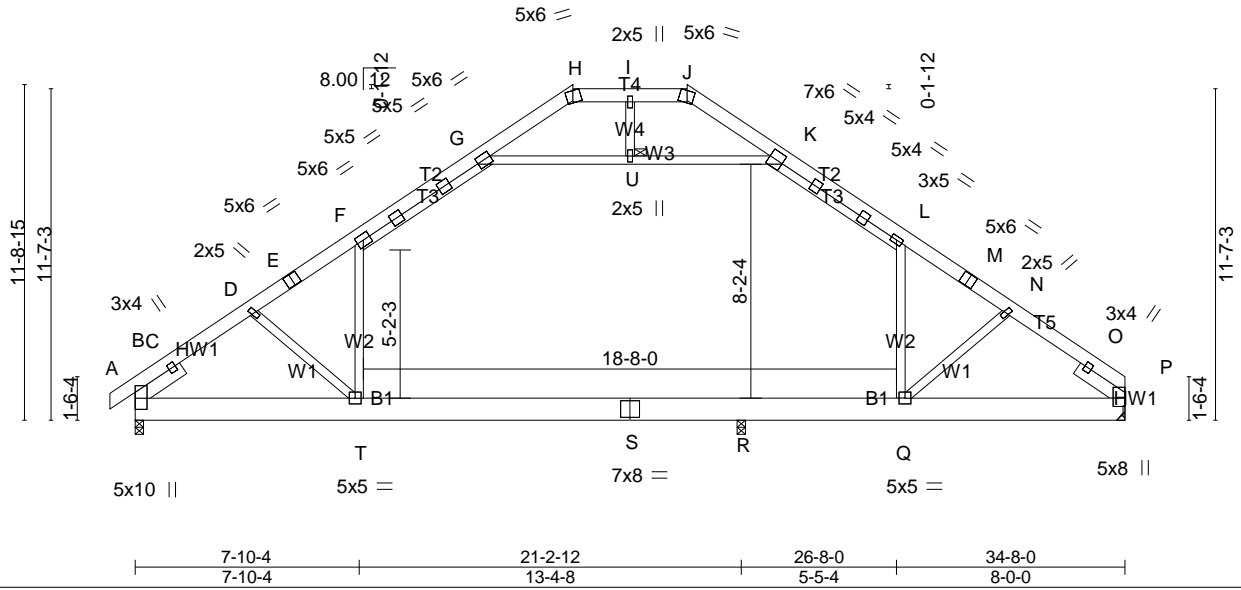
Job 19032063	Truss A5	Truss Type ROOF TRUSS	Qty 2	Ply 1	NELSON CLASSIC PORCH
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD 8.310 s May 22 2019 MiTek Industries, Inc. Fri Sep 6 07:37:50 2019 Page 1
 ID: xhlzMnvGHv6zQ6pXlgn70Kzc57X-WtHnKabjnADQmt5MkBI5LXL8y4IAVKfU0W5vSCygr11



Scale = 1:80.7



LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 1.00	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.93	Vert(LL) -0.53 R-T >478 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.44	Vert(CT) -0.73 R-T >349 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.06 B n/a n/a		
	Code IRC2015/TPI2014		Attic -0.40 Q-T 574 360	Weight: 310 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2 *Except*
 T2: 2x6 SP No.1, T3: 2x4 SP No.2
 BOT CHORD 2x10 SP No.1
 WEBS 2x4 SP No.2 *Except*
 W4, W1: 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 -A 1-11-12, Right 2x6 SP No.2 -A 1-11-12

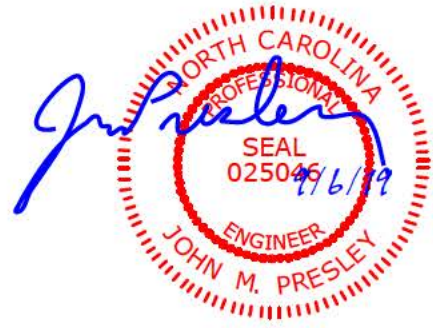
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.); H-J.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 JOINTS 1 Brace at Jt(s): U

REACTIONS. (lb/size) B=1324/0-3-8 (min. 0-1-12), P=1149/Mechanical, R=542/0-3-8 (min. 0-1-11)
 Max Horz B=261(LC 7)
 Max Uplift B=146(LC 10), P=74(LC 11), R=6(LC 11)
 Max Grav B=1484(LC 18), P=1149(LC 1), R=1409(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-968/142, C-D=-1716/246, D-E=-1541/220, E-F=-1445/233, F-G=-1205/326, G-H=-417/159, H-I=-287/131, I-J=-289/132, J-K=-438/123, K-L=-1265/325, L-M=-1390/236, M-N=-1455/223, N-O=-1539/251, O-P=-605/177
 BOT CHORD B-T=-233/1587, S-T=-77/1193, R-S=-77/1193, Q-R=-77/1193, P-Q=-147/1185
 WEBS F-T=0/580, G-U=-1102/280, K-U=-1102/280, D-T=-533/211

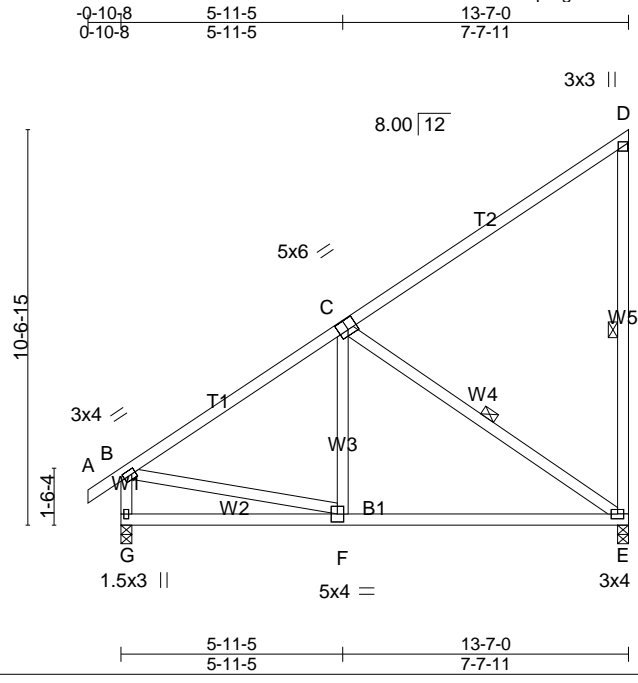
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end 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.
 - 6) Ceiling dead load (5.0 psf) on member(s). F-G, K-L, G-U, K-U
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. R-T, Q-R
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) P, R except (jt=lb) B=146.
 - 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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD
 8.310 s May 22 2019 MiTek Industries, Inc. Fri Sep 6 07:37:51 2019 Page 1
 ID:xhIzMnvGHv6zQ6pXlgn70Kzc57X-_3r9XwbLYULHN1gYluGKukuNHTkyEqzdEARs_eygR1k



Scale = 1:61.7

Plate Offsets (X,Y)-- [B:0-1-4,0-1-8], [C:0-3-0,0-3-4]

LOADING (psf)	SPACING-	CSI.	DEFL.		PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.71	in (loc) l/def L/d		MT20	244/180
TCDL 10.0	Plate Grip DOL 1.15	BC 0.51	Vert(LL) -0.09 E-F >999 240			
BCLL 0.0 *	Lumber DOL 1.15	WB 0.24	Vert(CT) -0.18 E-F >877 180			
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) -0.01 E n/a n/a			
	Code IRC2015/TPI2014				Weight: 91 lb	FT = 20%

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

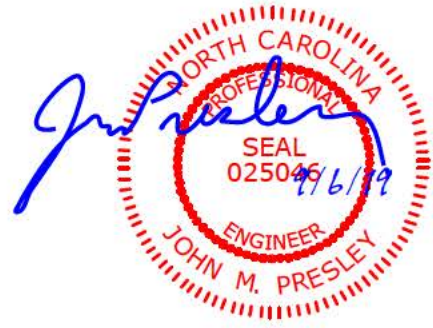
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-1-14 oc bracing.
 WEBS 1 Row at midpt D-E, C-E

REACTIONS. (lb/size) G=595/0-3-8 (min. 0-1-8), E=529/0-3-8 (min. 0-1-8)
 Max Horz G=348(LC 10)
 Max Uplift E=-245(LC 10)
 Max Grav G=595(LC 1), E=574(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-568/0, B-G=-550/15
 BOT CHORD F-G=-404/361, E-F=-212/475
 WEBS C-F=0/258, C-E=-566/253, B-F=0/352

- 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 100 lb uplift at joint(s) except (jt=lb) E=245.
 - 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.

LOAD CASE(S) Standard



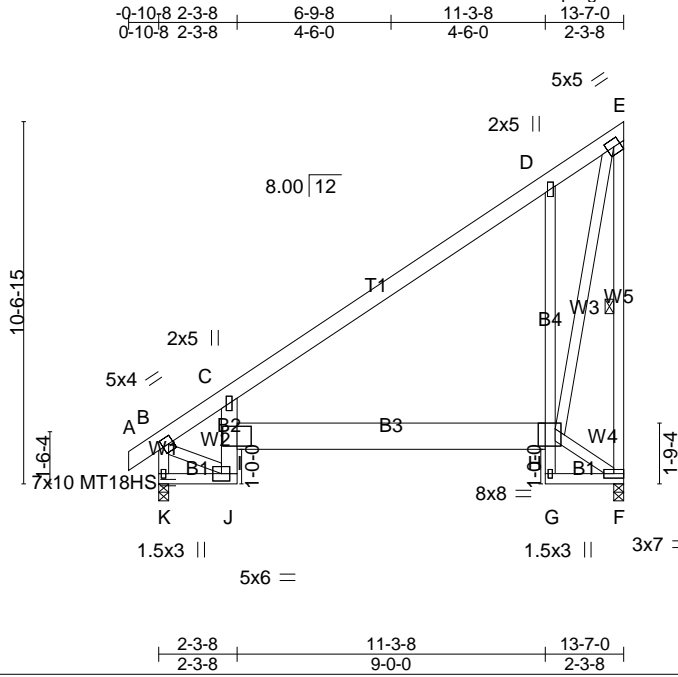
This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 19032063	Truss A7A	Truss Type ROOF TRUSS	Qty 2	Ply 1	NELSON CLASSIC PORCH
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD
 8.310 s May 22 2019 M/Tek Industries, Inc. Fri Sep 6 07:37:52 2019 Page 1
 ID: xhlzMnvGHv6zQ6pXlgn70Kzc57X-SGOXkFczJoT8?BFIronZRyQX2tyszDFnTqa?X4ygR1j



Scale = 1:67.3

Plate Offsets (X,Y)-- [B:0-1-12,0-2-8], [H:0-6-0,0-2-0]

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 0.77 BC 0.98 WB 0.49 Matrix-MSH	DEFL. in (loc) l/defl L/d Vert(LL) -0.15 H-I >999 240 Vert(CT) -0.22 H-I >720 180 Horz(CT) 0.12 F n/a n/a Attic -0.10 H-I 1169 360	PLATES GRIP MT20 244/190 MT18HS 244/190 Weight: 135 lb FT = 20%
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LUMBER- TOP CHORD 2x6 SP No.2 BOT CHORD 2x4 SP No.2 *Except* B2: 2x6 SP No.2, B3: 2x10 SP No.1, B4: 2x4 SP No.3 WEBS 2x4 SP No.3 *Except* W5: 2x4 SP No.2	BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 6-0-0 oc bracing: D-H WEBS 1 Row at midpt E-F
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REACTIONS. (lb/size) F=529/0-3-8 (min. 0-1-8), K=595/0-3-8 (min. 0-1-8)
 Max Horz K=389(LC 7)
 Max Uplift F=170(LC 10), K=46(LC 10)
 Max Grav F=879(LC 18), K=842(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=710/137, C-D=519/114, D-E=500/275, E-F=971/177, B-K=823/139
 BOT CHORD J-K=-366/239, I-J=-318/59, H-I=-141/380, D-H=-692/350
 WEBS F-H=-158/281, E-H=-344/1389, B-J=-89/636

- 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) All plates are MT20 plates unless otherwise indicated.
 - 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) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. H-I
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) K except (jt=lb) F=170.
 - 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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD

8.310 s May 22 2019 MiTek Industries, Inc. Fri Sep 6 07:37:52 2019 Page 1
 ID:xhizMnvGHv6zQ6pXlgn70Kzc57X-SGOXKfCzJoT8?BFfrcnZRyQidBtBNzinnTqa?X4ygR1f

-0-10-8 8-3-12 16-7-8 17-6-0
 0-10-8 8-3-12 8-3-12 0-10-8

Scale = 1:61.6

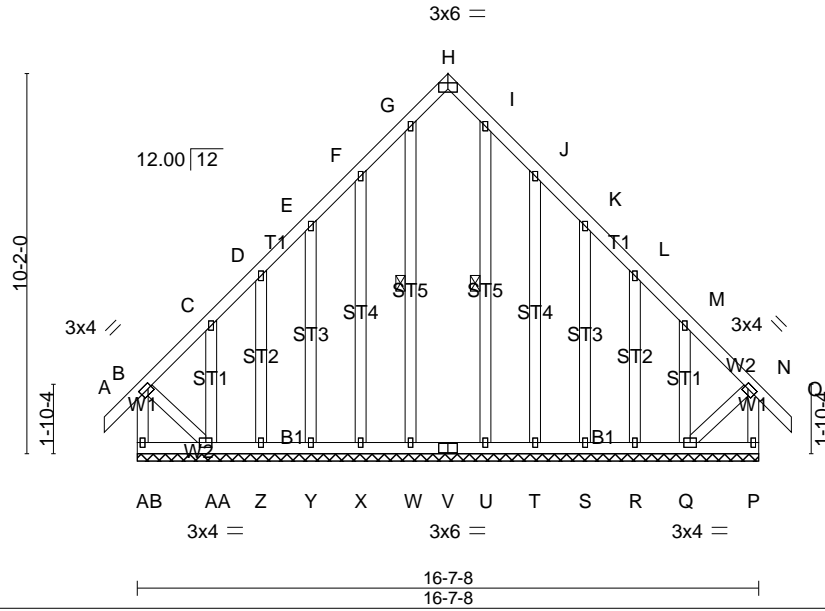


Plate Offsets (X,Y)-- [B:0-1-4,0-1-8], [H:0-3-0,Edge], [N:0-1-4,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) -0.00 O n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.14	Vert(CT) -0.00 O n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 Q n/a n/a		
	Code IRC2015/TPI2014			Weight: 163 lb	FT = 20%

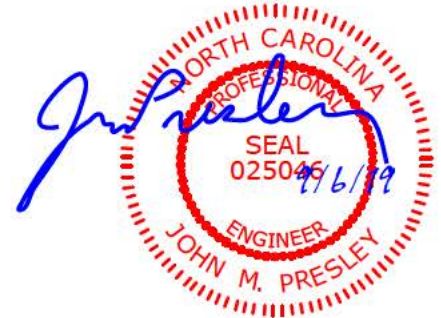
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3	6-0-0 oc bracing: AA-AB,P-Q.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt G-W, I-U

REACTIONS. All bearings 16-7-8.
 (lb) - Max Horz AB=287(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) X, Y, Z, T, S, R except AB=145(LC 8), P=112(LC 9), AA=304(LC 10), Q=298(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) W, X, Y, Z, AA, U, T, S, R, Q except AB=380(LC 10), P=369(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-AB=368/236, B-C=282/192, M-N=273/192, N-P=357/236
 BOT CHORD AA-AB=-273/262, Z-AA=-177/302, Y-Z=-177/302, X-Y=-177/302, W-X=-177/302, V-W=-177/302, U-V=-177/302, T-U=-177/302, S-T=-177/302,
 R-S=-177/302, Q-R=-177/302
 WEBS B-AA=-220/349, N-Q=-220/349

- 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).
 - 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 and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) X, Y, Z, T, S, R except (jt=lb) AB=145, P=112, AA=304, Q=298.
 - 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.

LOAD CASE(S) Standard

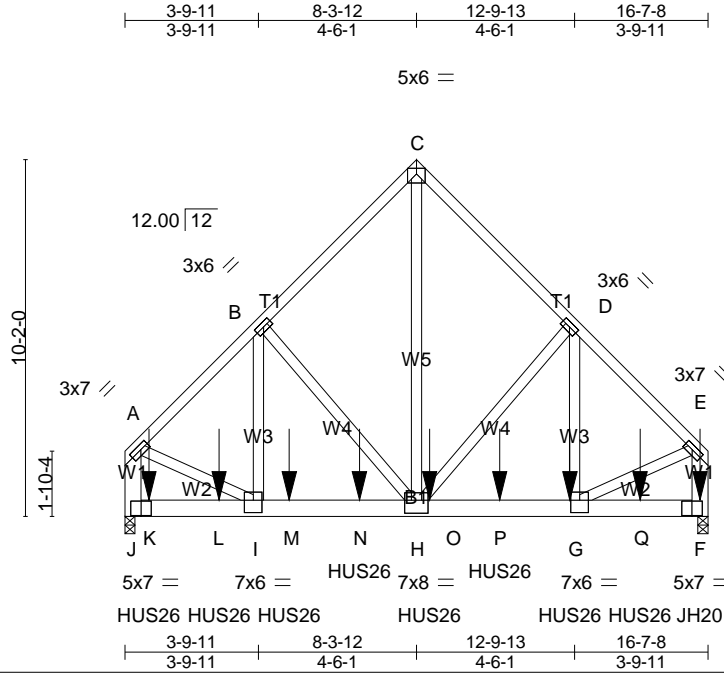


This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 19032063	Truss B2	Truss Type Common Girder	Qty 1	Ply 2	NELSON CLASSIC PORCH
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD
 ID: xhlzMnvGHv6zQ6pXlgn70Kzc57X-OeWH9xeDrPjsEVO7z1q1WNW0_hiHR2N4x836bzygR1h
 8.310 s May 22 2019 MiTek Industries, Inc. Fri Sep 6 07:37:54 2019 Page 1



Scale = 1:65.7

Plate Offsets (X,Y)-- [A:0-3-0,0-1-8], [E:0-3-0,0-1-8], [G:0-3-0,0-4-4], [H:0-4-0,0-4-8], [I:0-3-0,0-4-4]

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 NO Code IRC2015/TPI2014	CSI. TC 0.23 BC 0.73 WB 0.77 Matrix-MSH	DEFL. in (loc) l/defl L/d Vert(LL) -0.05 H-I >999 240 Vert(CT) -0.09 H-I >999 180 Horz(CT) 0.01 F n/a n/a	PLATES MT20 GRIP 244/190 Weight: 279 lb FT = 20%
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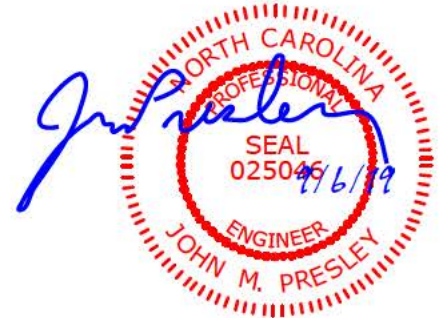
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 *Except* W1: 2x6 SP No.2	BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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REACTIONS. (lb/size) J=4091/0-3-8 (min. 0-1-8), F=5609/0-3-8 (min. 0-1-8)
 Max Horz J=260(LC 4)
 Max Uplift J=161(LC 9), F=599(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-3472/376, B-C=-2928/498, C-D=-2927/497, D-E=-3846/517, A-J=-3557/373, E-F=-3905/498
 BOT CHORD J-K=-213/305, K-L=-213/305, L-M=-213/305, I-M=-311/2404, M-N=-311/2404, H-N=-311/2404, H-O=-290/2668, O-P=-290/2668, G-P=-290/2668
 WEBS C-H=-571/3731, D-H=-1050/294, D-G=-184/1303, B-H=-635/142, B-I=0/677, A-I=-248/2513, E-G=-311/2711

- NOTES-**
- 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, 2x6 - 2 rows staggered 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.
 - 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.
 - 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; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Bearing at joint(s) J, F considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) J=161, F=599.
 - 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.
 - Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-4 from the left end to 14-8-4 to connect truss(es) a6 (1 ply 2x4 SP), a3 (1 ply 2x6 SP), a4 (1 ply 2x6 SP), a5 (1 ply 2x10 SP) to front face of bottom chord.
 - Use USP JH20 (With 14-10d nails into Girder & 6-10d nails into Truss) or equivalent at 16-4-12 from the left end to connect truss(es) a5 (1 ply 2x10 SP) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-C=-60, C-E=-60, F-J=-20
 Concentrated Loads (lb)
 Vert: G=-1085(F) F=-1139(F) K=-517(F) L=-512(F) M=-980(F) N=-980(F) O=-980(F) P=-1085(F) Q=-1129(F)



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



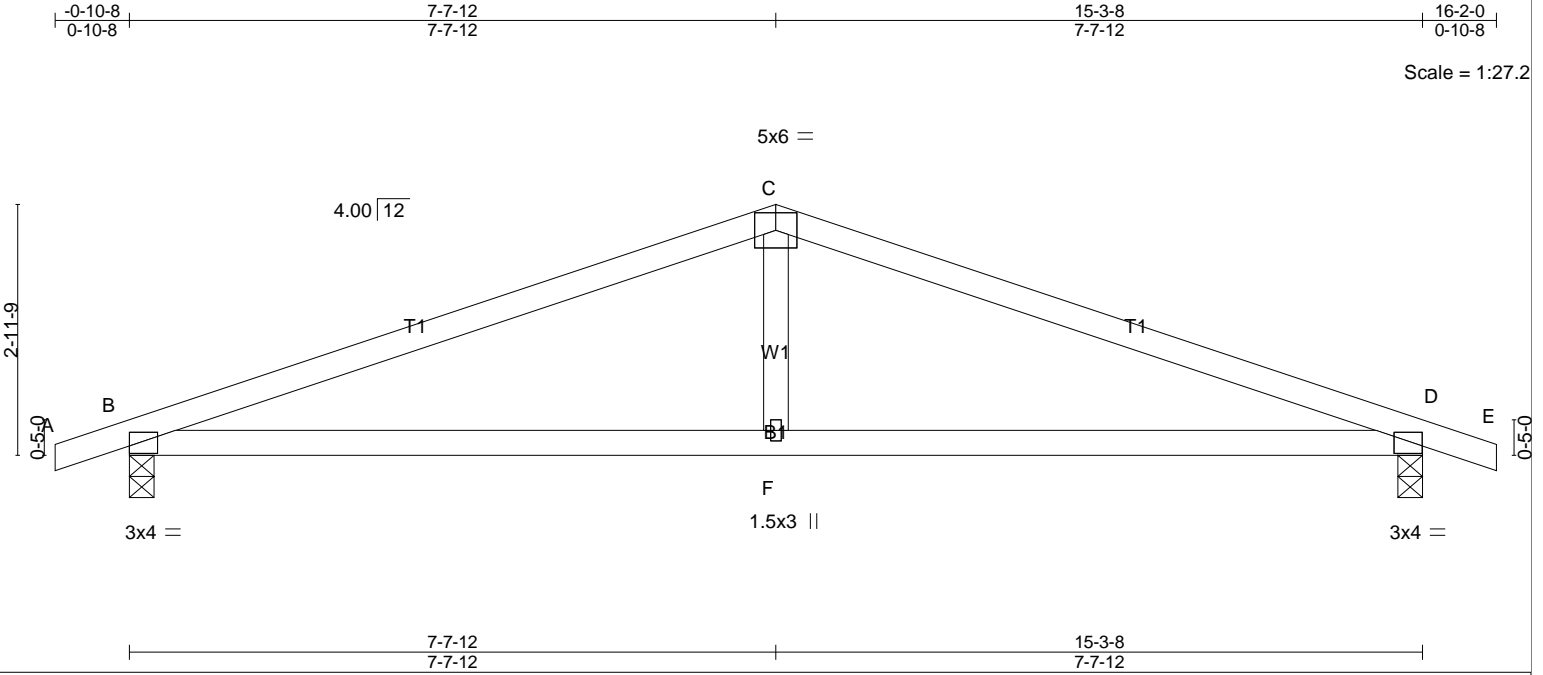


Plate Offsets (X,Y)-- [B:Edge,0-1-1], [D:Edge,0-1-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.83	in (loc) l/def L/d	MT20	244/180
TCDL 10.0	Plate Grip DOL 1.15	BC 0.67	Vert(LL) -0.11 F-I >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Vert(CT) -0.20 F-I >905 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.02 D n/a n/a		
	Code IRC2015/TPI2014			Weight: 53 lb	FT = 20%

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

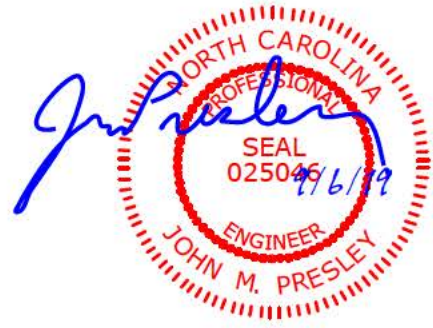
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=664/0-3-8 (min. 0-1-8), D=664/0-3-8 (min. 0-1-8)
 Max Horz B=-47(LC 11)
 Max Uplift B=-121(LC 6), D=-121(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1127/284, C-D=-1127/284
 BOT CHORD B-F=-175/1007, D-F=-175/1007
 WEBS C-F=0/347

- 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 100 lb uplift at joint(s) except (jt=lb) B=121, D=121.
 - 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.

LOAD CASE(S) Standard



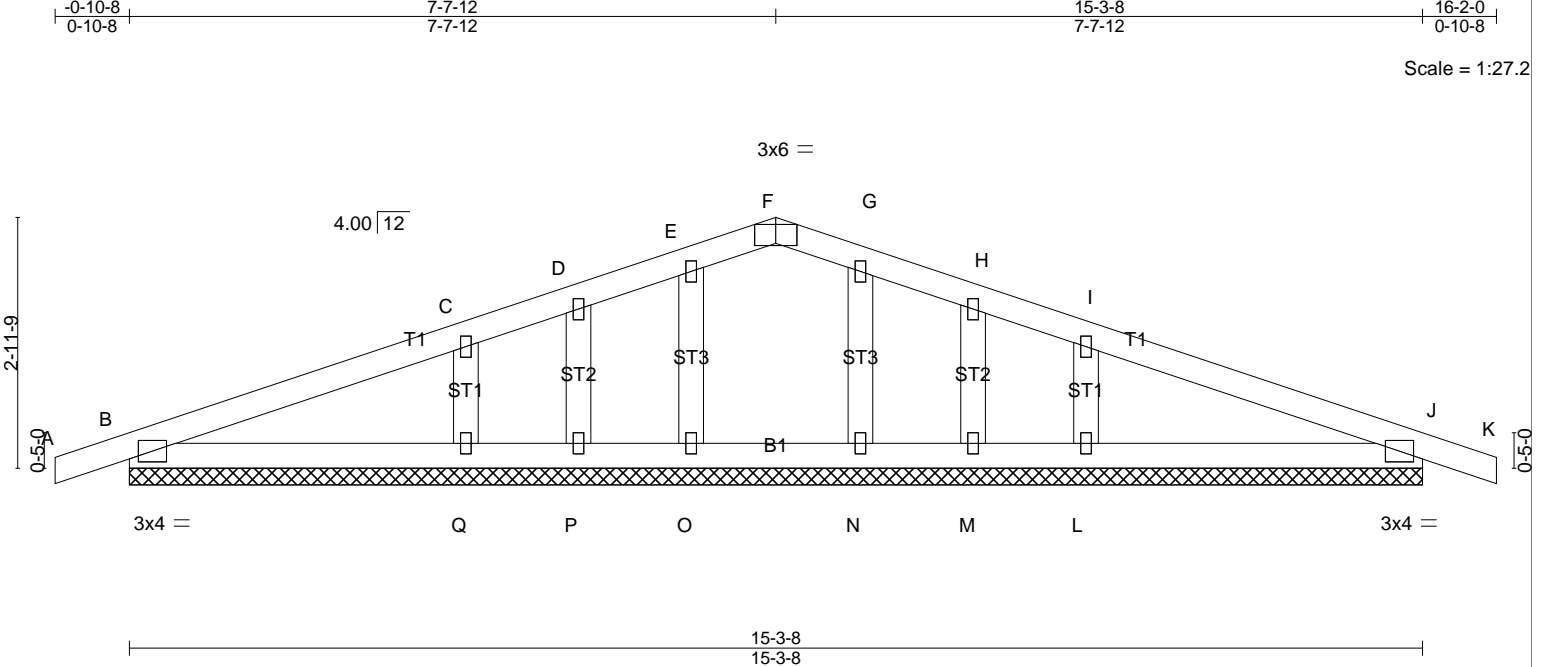


Plate Offsets (X,Y)-- [F:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) 0.00 K n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) 0.01 K n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 J n/a n/a		
	Code IRC2015/TPI2014			Weight: 64 lb	FT = 20%

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

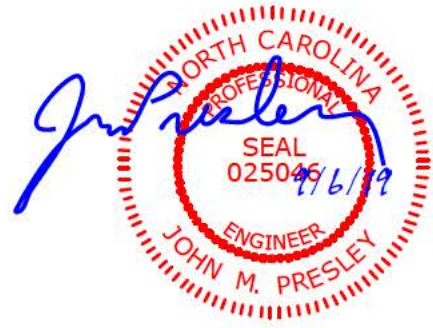
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-3-8.
 (lb) - Max Horz B=47(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) B, J, O, P, Q, N, M, L
 Max Grav All reactions 250 lb or less at joint(s) B, J, O, P, N, M except Q=331(LC 1), L=331(LC 1)

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

- 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, J, O, P, Q, N, M, L.
 - 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.

LOAD CASE(S) Standard

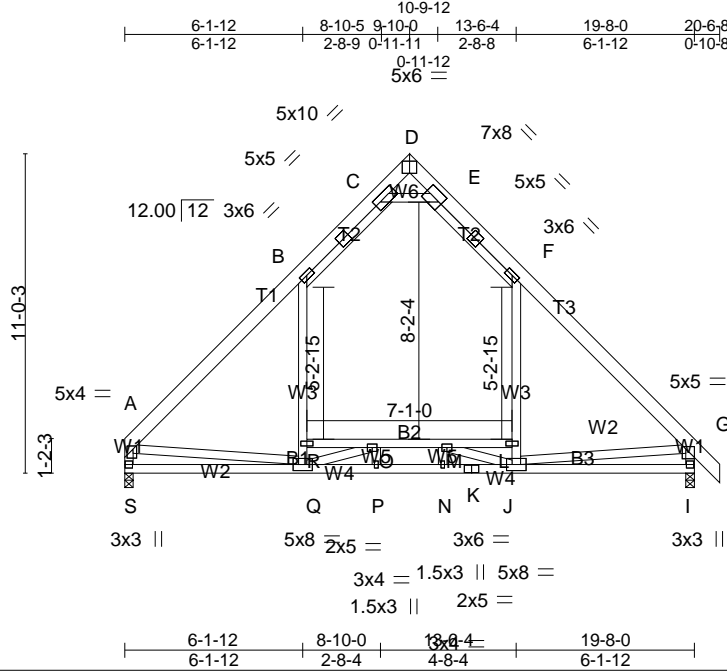


Job 19032063	Truss D1	Truss Type ATTIC	Qty 4	Ply 1	NELSON CLASSIC PORCH
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD

8.310 s May 22 2019 MITek Industries, Inc. Fri Sep 6 07:37:56 2019 Page 1
ID:rl6G188vpH_Oqfn4vE1rAYzqDyf-L1e2adfUN0zaUoYw4RsVbobAUUSNv4cNOSYDgrygR1f



Scale = 1:79.5

Plate Offsets (X,Y)-- [A:0-2-8,0-1-4], [D:0-3-0,Edge], [G:0-3-8,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.50	Vert(LL) 0.13 R >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.28	Vert(CT) -0.18 L-M >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.02 I n/a n/a		
	Code IRC2015/TPI2014		Attic -0.07 L-R 1246 360	Weight: 172 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* T1: 2x6 SP No.1, T3: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 2x4 SP No.3 *Except* W3,W6: 2x4 SP No.2	6-0-0 oc bracing: L-R

REACTIONS. (lb/size) S=884/0-3-8 (min. 0-1-8), I=949/0-3-8 (min. 0-1-8)
Max Horz S=-287(LC 8)
Max Uplift S=-1(LC 11), I=-9(LC 11)
Max Grav S=1028(LC 19), I=1072(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1157/66, B-C=-674/174, C-D=-252/764, D-E=-255/774, E-F=-677/173, F-G=-1162/73, A-S=-974/86, G-I=-1016/131
BOT CHORD Q-S=-301/515, P-Q=0/1425, N-P=0/1425, K-N=0/1425, J-K=0/1425, I-J=-172/397, M-O=-796/0
WEBS J-L=0/366, F-L=0/458, Q-R=0/361, B-R=0/453, C-E=-1693/611, O-Q=-718/12, J-M=-714/0, A-Q=-68/562, G-J=-112/537

- 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) Ceiling dead load (5.0 psf) on member(s). B-C, E-F, C-E
 - 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. O-R, M-O, L-M
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) S, I.
 - 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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.

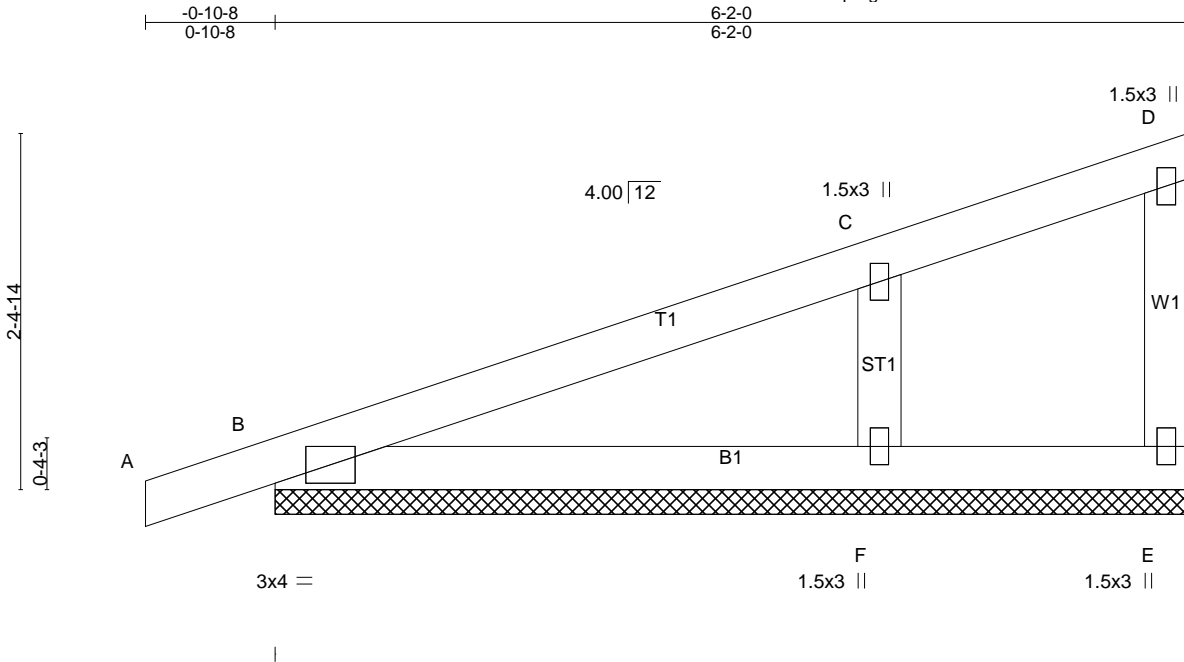


Job 19032063	Truss E1	Truss Type MONOPITCH SUPPORTED	Qty 1	Ply 1	NELSON CLASSIC PORCH
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD

8.310 s May 22 2019 M/Tek Industries, Inc. Fri Sep 6 07:37:56 2019 Page 1
ID:xhIzMnvGHv6zQ6pXlgn70Kzc57X-L1e2adfuNOzaUoYW4RsVbobNIUYLv86NOSYDgrygR1f



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) -0.00 A n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) 0.01 A n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 25 lb	FT = 20%

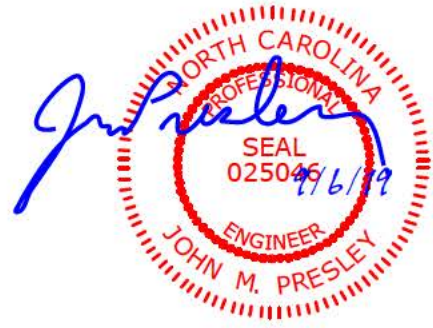
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) E=15/6-2-0 (min. 0-1-8), B=192/6-2-0 (min. 0-1-8), F=328/6-2-0 (min. 0-1-8)
Max Horz B=92(LC 7)
Max Uplift E=-7(LC 7), B=-52(LC 6), F=-76(LC 10)

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

- 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) Gable studs spaced at 2-0-0 oc.
 - 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 and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, B, F.
 - 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.

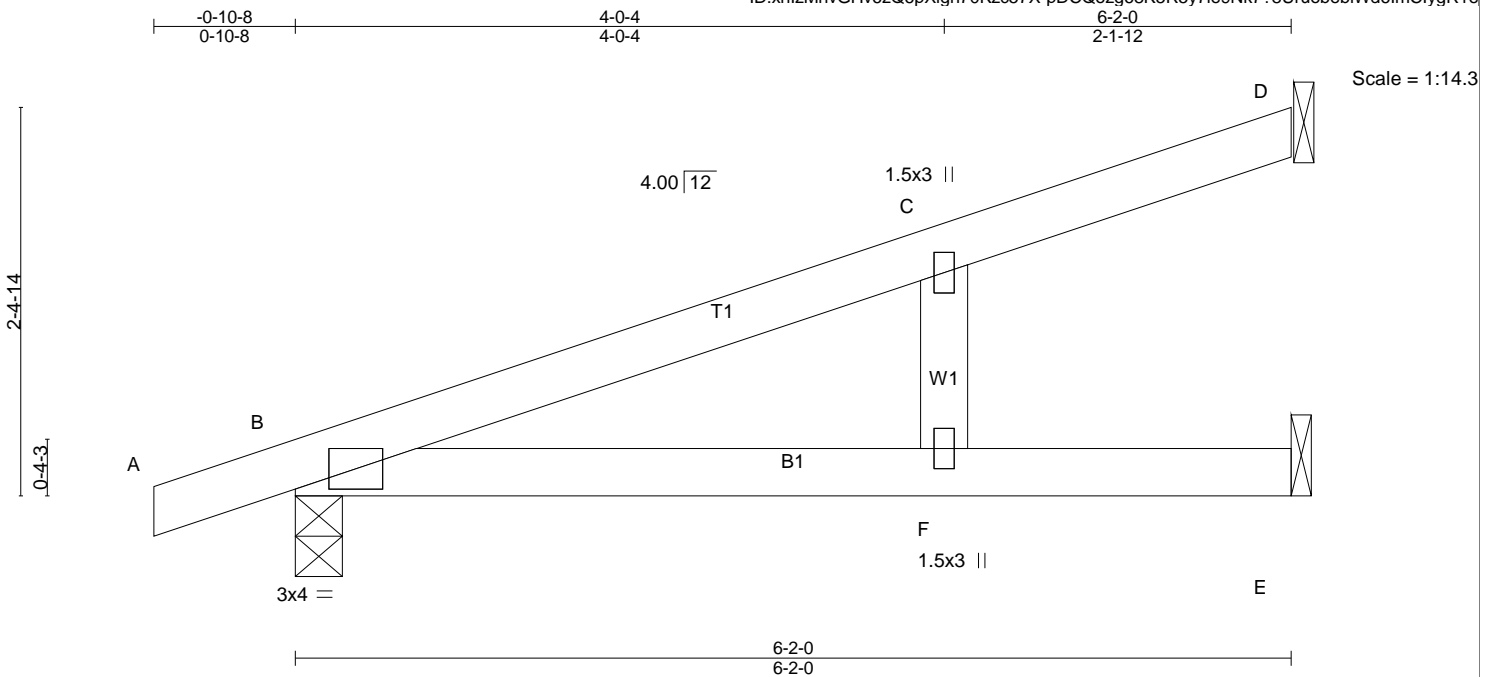
LOAD CASE(S) Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.45	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.50	Vert(LL) 0.09 F-I >836 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) -0.16 F-I >452 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.00 B n/a n/a		
	Code IRC2015/TPI2014			Weight: 22 lb	FT = 20%

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

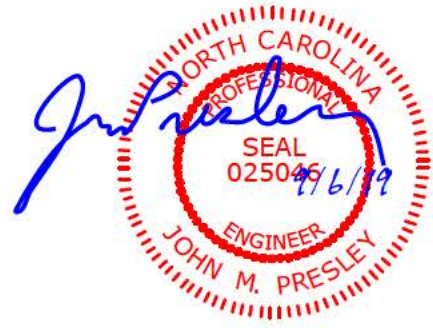
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) D=132/Mechanical, B=300/0-3-8 (min. 0-1-8), E=109/Mechanical
Max Horz B=94(LC 6)
Max Uplift D=43(LC 10), B=68(LC 6), E=14(LC 10)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=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.
 - 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 100 lb uplift at joint(s) D, B, E.
 - 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.

LOAD CASE(S) Standard



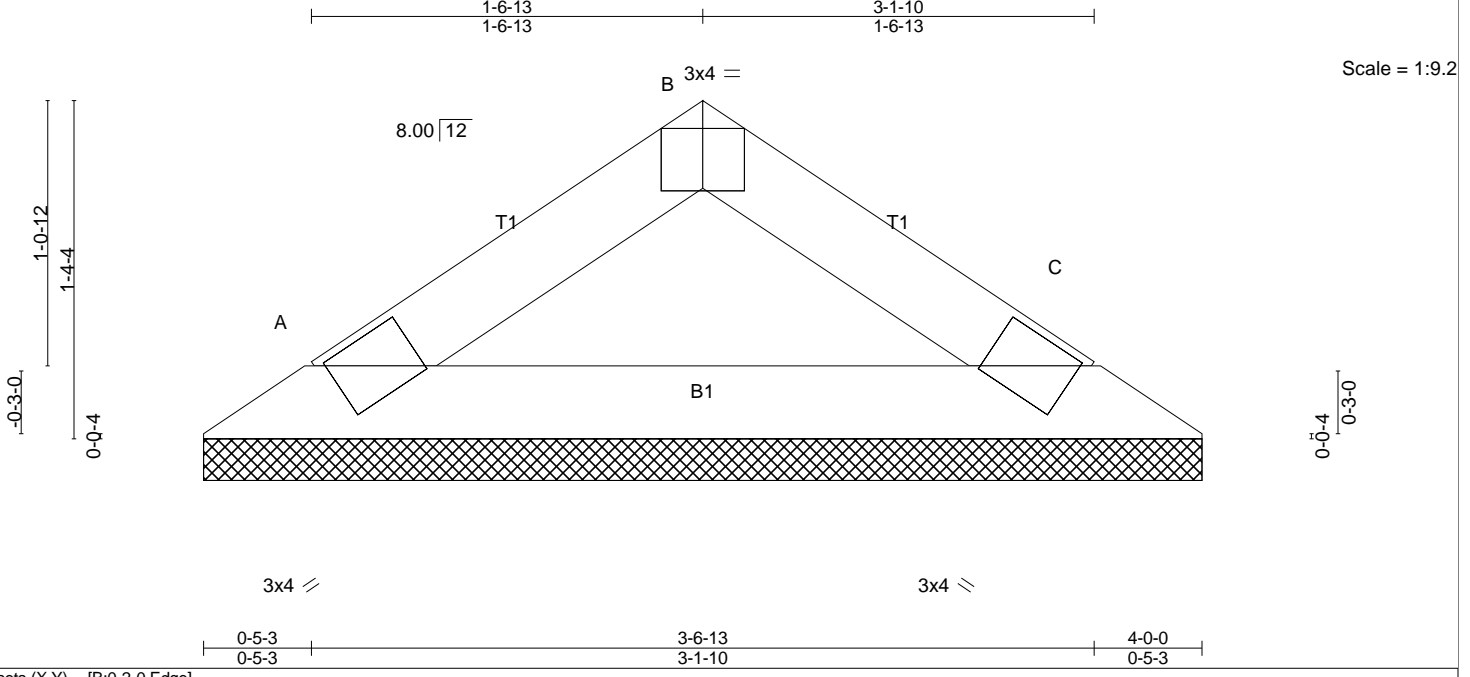


Plate Offsets (X,Y)-- [B:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 C n/a n/a		
	Code IRC2015/TPI2014			Weight: 12 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

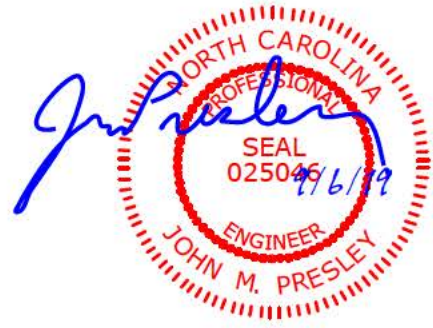
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=124/4-0-0 (min. 0-1-8), C=124/4-0-0 (min. 0-1-8)
Max Horz A=-26(LC 6)
Max Uplift A=-13(LC 10), C=-13(LC 11)

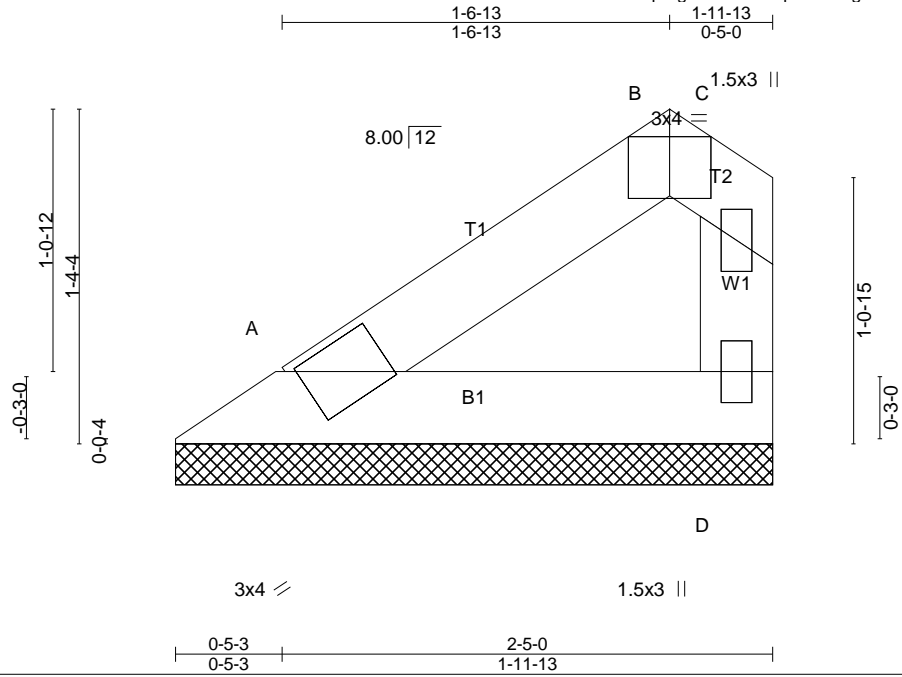
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-** (7)
- 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 and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - 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.
 - 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.
 - 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.

LOAD CASE(S) Standard



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD



Scale = 1:9.3

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	D	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 8 lb	FT = 20%

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

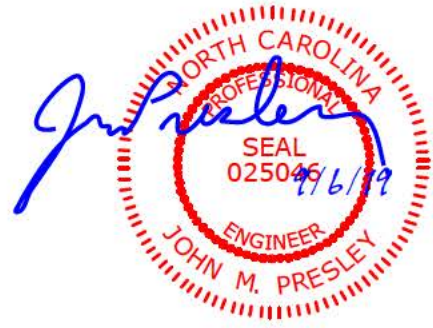
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-5-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=73/2-5-0 (min. 0-1-8), D=73/2-5-0 (min. 0-1-8)
 Max Horz A=37(LC 7)
 Max Uplift A=-7(LC 10), D=-15(LC 10)
 Max Grav A=73(LC 1), D=74(LC 17)

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

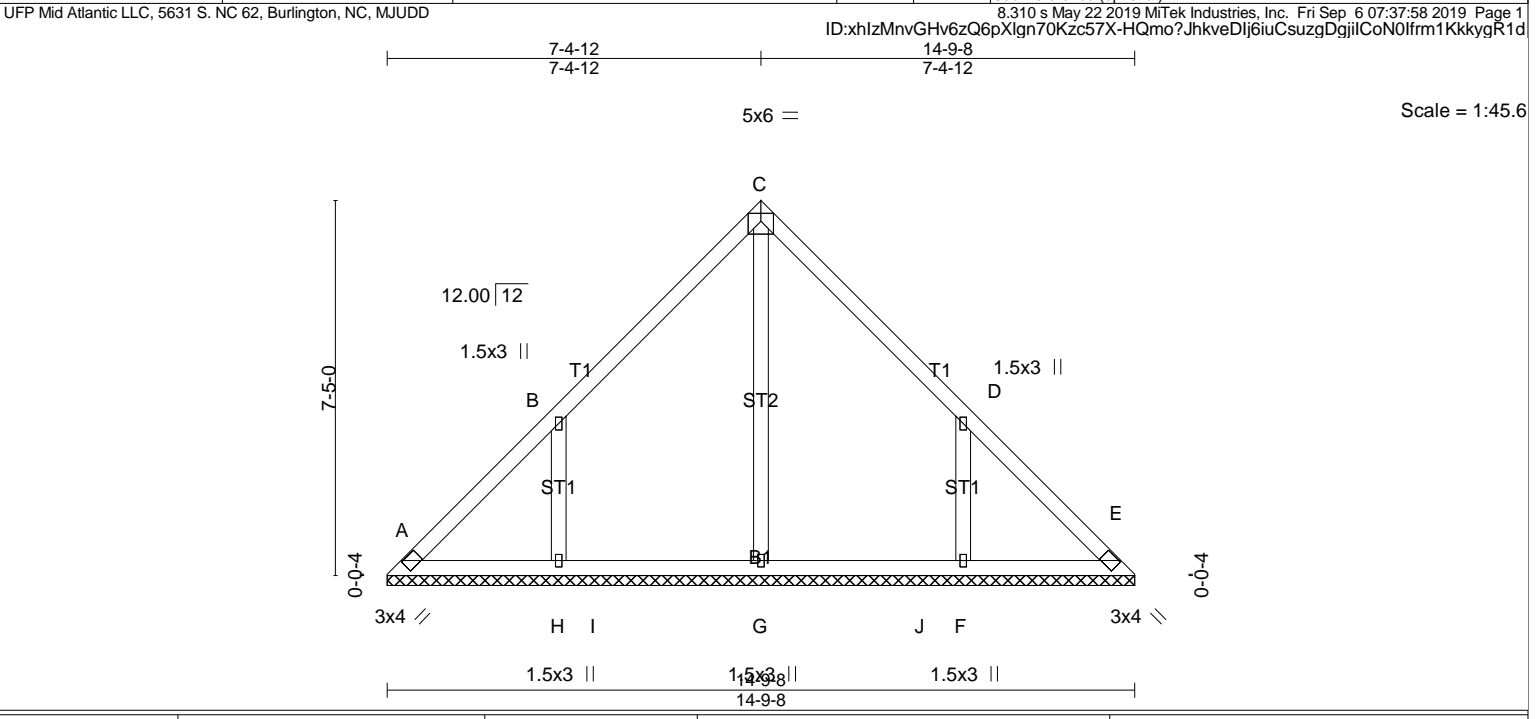
- NOTES-** (7)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed;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

LOAD CASE(S) Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.





LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.18	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.18	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.14	Vert(CT) n/a - n/a 999		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-SH	Horz(CT) 0.00 E n/a n/a		
					Weight: 70 lb	FT = 20%

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

BRACING-
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.

REACTIONS. All bearings 14-9-8.
(lb) - Max Horz A=-175(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) A, E except H=-230(LC 10), F=-230(LC 11)
Max Grav All reactions 250 lb or less at joint(s) A, E except G=357(LC 20), H=416(LC 17), F=416(LC 18)

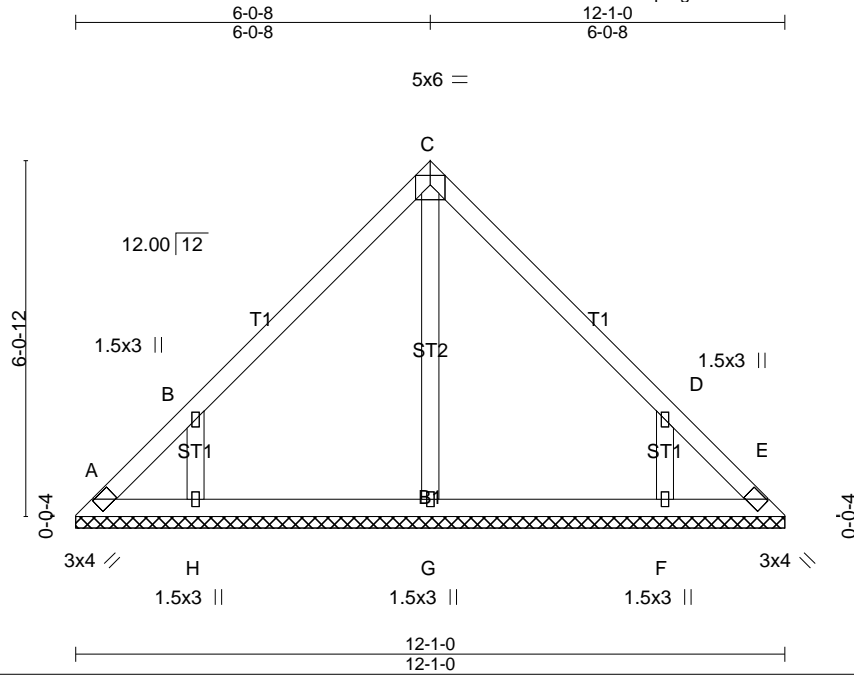
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-328/265, D-F=-328/265

- 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) 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E except (it=lb) H=230, F=230.
 - 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.

LOAD CASE(S) Standard



Job Reference (optional)



Scale = 1:39.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 55 lb	FT = 20%

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

BRACING-
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.

REACTIONS. All bearings 12-1-0.
(lb) - Max Horz A=-141(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) A, E except H=-206(LC 10), F=-206(LC 11)
Max Grav All reactions 250 lb or less at joint(s) A, E, G except H=334(LC 17), F=334(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-309/253, D-F=-309/253

- 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) 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 100 lb uplift at joint(s) A, E except (jt=lb) H=206, F=206.
 - 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.

LOAD CASE(S) Standard

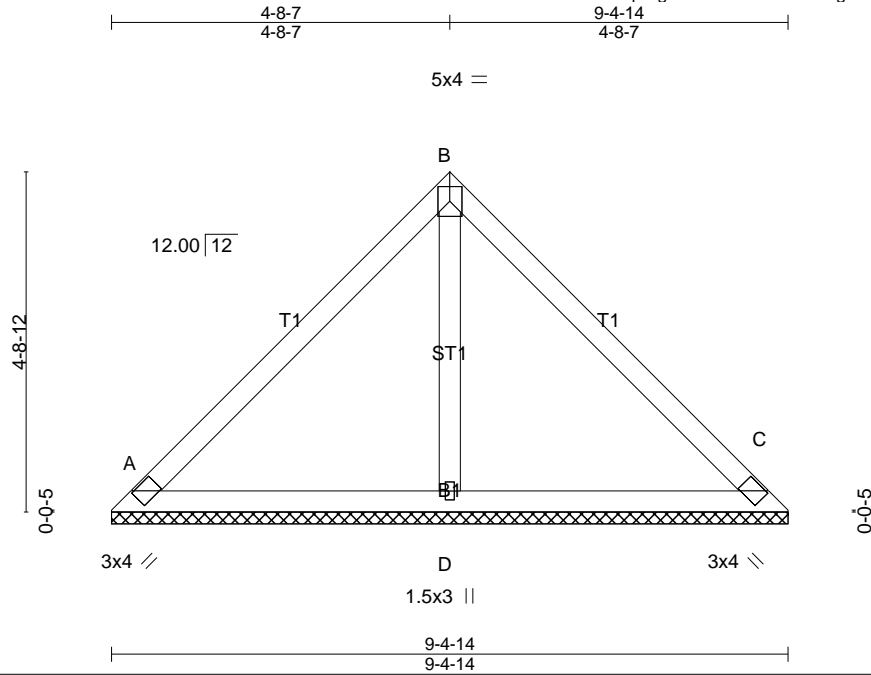


This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD
 8,310 s May 22 2019 MTEK Industries, Inc. Fri Sep 6 07:37:59 2019 Page 1
 ID: xhIzMnvGHv6zQ6pXlgn70Kzc57X-lcKACfiMgxL8LGH5maPCDQDtaiXp6Uep4QntGAYgR1c



Scale: 3/8"=1'

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.		PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.24	in (loc) l/def L/d		MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(LL) n/a - n/a 999			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Vert(CT) n/a - n/a 999			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-SH	Horz(CT) 0.00 C n/a n/a			
					Weight: 39 lb	FT = 20%

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

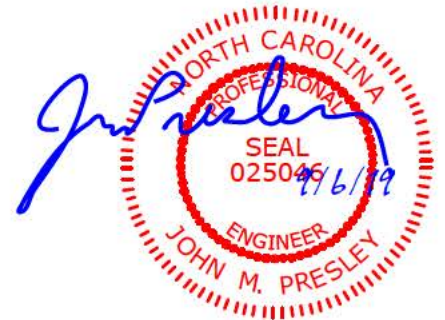
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=190/9-4-14 (min. 0-1-8), C=190/9-4-14 (min. 0-1-8), D=320/9-4-14 (min. 0-1-8)
 Max Horz A=108(LC 7)
 Max Uplift A=-31(LC 11), C=-31(LC 11), D=-18(LC 10)

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

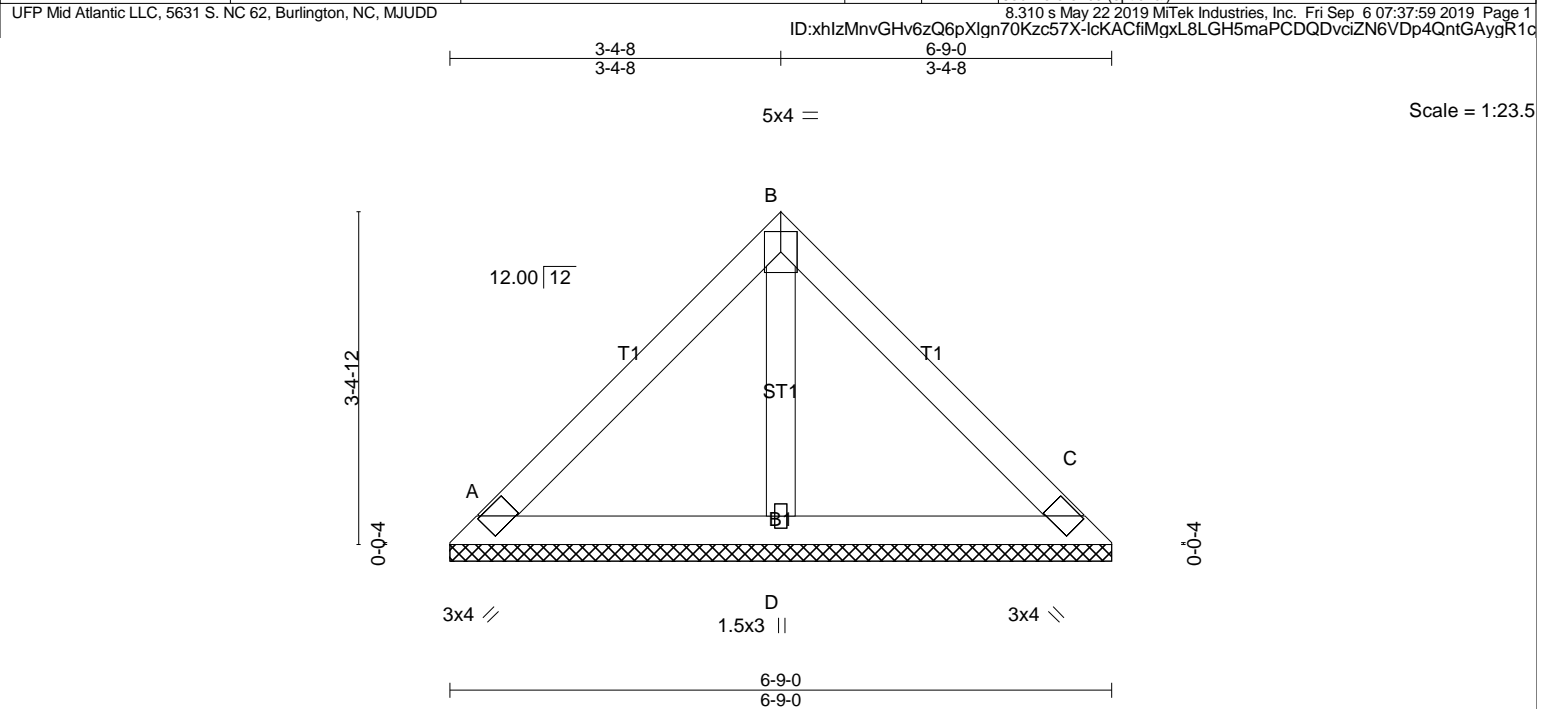
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C, D.
 - 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.

LOAD CASE(S) Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.





LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 C n/a n/a		
	Code IRC2015/TPI2014			Weight: 27 lb	FT = 20%

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

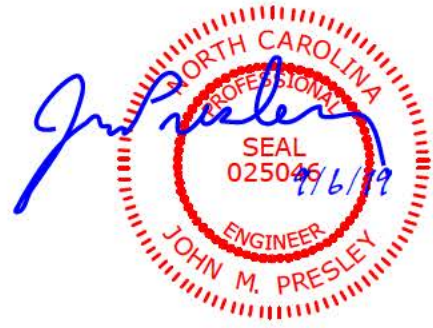
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

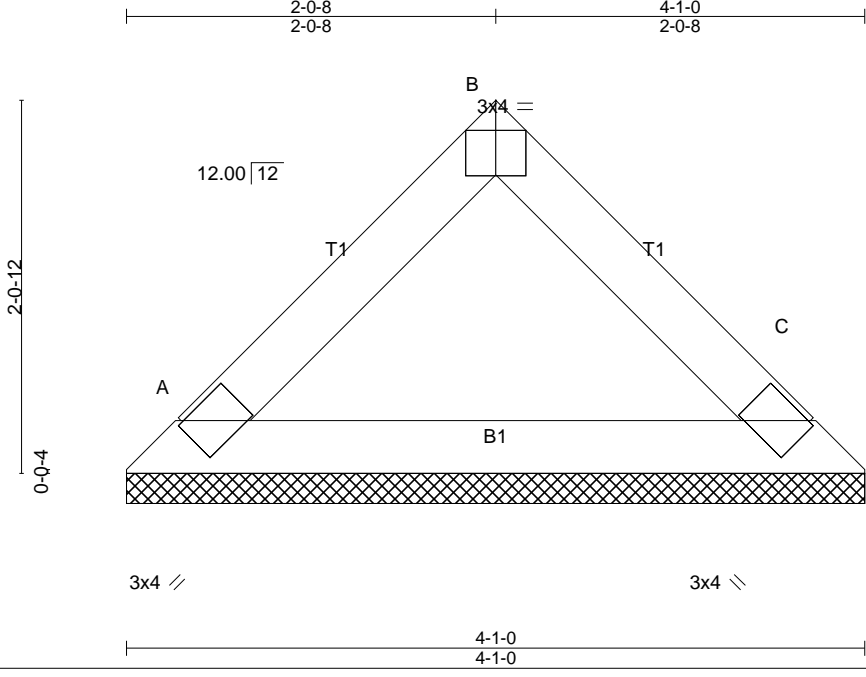
REACTIONS. (lb/size) A=132/6-9-0 (min. 0-1-8), C=132/6-9-0 (min. 0-1-8), D=223/6-9-0 (min. 0-1-8)
Max Horz A=-75(LC 6)
Max Uplift A=-21(LC 11), C=-21(LC 11), D=-13(LC 10)

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

- 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) 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 100 lb uplift at joint(s) A, C, 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.

LOAD CASE(S) Standard





Scale = 1:12.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.14	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT) 0.00 C n/a n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P		Weight: 13 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-1-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=137/4-1-0 (min. 0-1-8), C=137/4-1-0 (min. 0-1-8)
 Max Horz A=42(LC 7)
 Max Uplift A=-11(LC 10), C=-11(LC 11)

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

- 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) 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 100 lb uplift at joint(s) A, C.
 - 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.

LOAD CASE(S) Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.

