ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

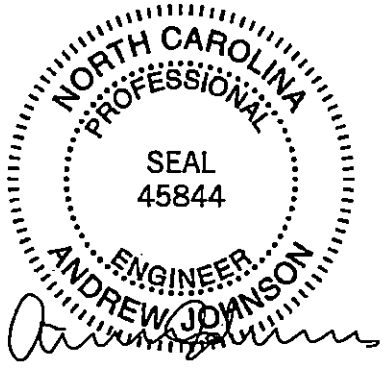
Re: 1800518-1800518A
Huntington A Wellons

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I32668630 thru I32668662

My license renewal date for the state of North Carolina is December 31, 2018.

North Carolina COA: C-0844



March 12,2018

Johnson, Andrew

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668630
1800518-1800518A	G1	Common Girder	1	2	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:14 2018 Page 1
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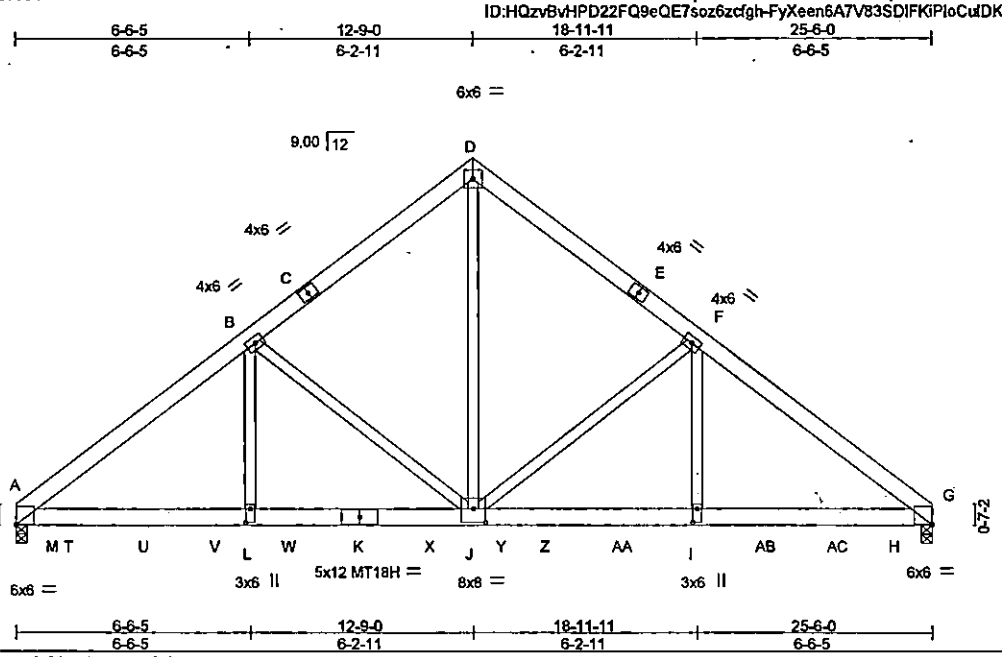

Plate Offsets (X,Y)— [I:0-4-8,0-1-8], [J:0-4-0,0-4-8], [L:0-4-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.11	J-L	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(TL)	-0.27	J-L	>999	180	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.78	Horz(TL)	0.07	G	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 389 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3 *Except*
D-J: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=6424/0-3-8 (req. 0-5-1), G=6015/0-3-8 (req. 0-4-11)
Max Horz A=-332(LC 25)
Max Uplift A=-1513(LC 8), G=-1286(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-8371/1940, B-D=-5553/1365, D-F=-5550/1364, F-G=-7695/1666
BOT CHORD A-L=-1636/6668, J-L=-1636/6668, I-J=-1227/6112, G-I=-1227/6112
WEBS D-J=-1406/6198, F-J=-2264/718, F-I=-367/2351, B-J=-2977/1005, B-L=-701/3152

NOTES-
1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 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) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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) All plates are MT20 plates 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.
8) WARNING: Required bearing size at joint(s) A, G greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=1513, G=1286.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 940 lb down and 241 lb up at 1-6-12, 940 lb down and 241 lb up at 3-6-12, 940 lb down and 241 lb up at 5-6-12, 940 lb down and 241 lb up at 7-6-12, 940 lb down and 241 lb up at 9-6-12, 873 lb down and 167 lb up at 11-6-12, 873 lb down and 167 lb up at 13-6-12, 686 lb down and 139 lb up at 14-9-12, 686 lb down and 139 lb up at 16-9-12, 686 lb down and 139 lb up at 18-9-12, 686 lb down and 139 lb up at 20-9-12, and 686 lb down and 139 lb up at 22-9-12, and 689 lb down and 136 lb up at 24-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

NORTH CAROLINA PROFESSIONAL SEAL 45844 ENGINEER ANDREW JOHNSON

March 12,2018

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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: A-D=-60, D-G=-60, N-Q=-20
   Concentrated Loads (lb)
      Vert: K=-937(F) I=-675(F) S=-678(F) T=-937(F) U=-937(F) V=-937(F) W=-937(F) X=-830(F) Y=-830(F) Z=-675(F) AA=-675(F) AB=-675(F) AC=-675(F)

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668631
1800518-1800518A	M1	Monopitch	2	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:15 2018 Page 1
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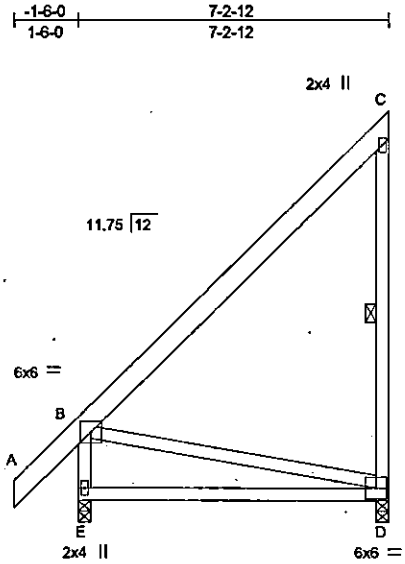


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.14	D-E	>599	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(TL)	-0.35	D-E	>240	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(TL)	-0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MP							Weight: 64 lb	FT = 20%

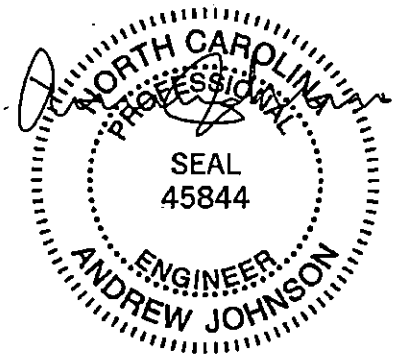
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-5-6 oc bracing.
WEBS 1 Row at midpt C-D

REACTIONS. (lb/size) D=266/0-3-8, E=388/0-3-8
Max Horz E=413(LC 10)
Max Uplift D=-369(LC 10)
Max Grav D=361(LC 17), E=388(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-283/264, C-D=-391/321, B-E=-319/32
BOT CHORD D-E=-572/290
WEBS B-D=-297/587

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left 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) D=369.



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ENGINEERING BY
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668632
1800518-1800518A	MG1	Monopitch Girder	1	2	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:18 2018 Page 1
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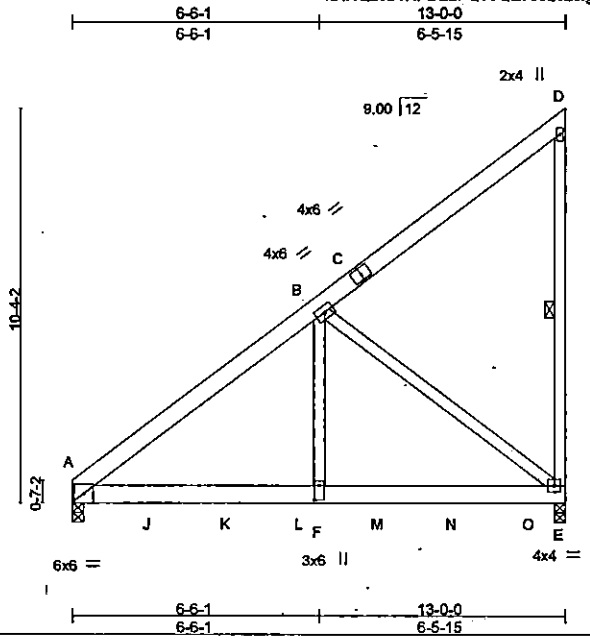


Scale = 1:58.4

Plate Offsets (X,Y)-- [F:0-4-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.06	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(TL)	-0.16	E-F	>989	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.84	Horz(TL)	0.02	E	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 202 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3

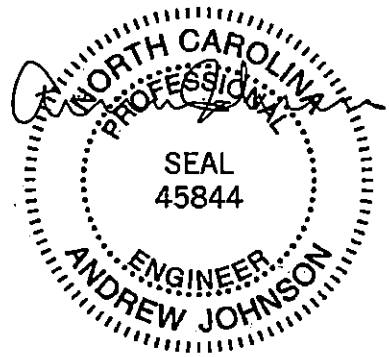
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt D-E

REACTIONS. (lb/size) A=2835/0-3-8, E=3301/0-3-8
Max Horz A=522(LC 8)
Max Uplift A=-528(LC 8), E=-1030(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-3165/513
BOT CHORD A-F=-799/2514, E-F=-799/2514
WEBS B-F=-664/3313, B-E=-3173/1007

NOTES-
1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone; cantilever left exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) except (jt=lb) A=528, E=1030.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 851 lb down and 203 lb up at 2-0-12, 851 lb down and 203 lb up at 4-0-12, 851 lb down and 203 lb up at 6-0-12, 851 lb down and 203 lb up at 8-0-12, and 851 lb down and 203 lb up at 10-0-12, and 853 lb down and 201 lb up at 12-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: A-D=-60, E-G=-20
Concentrated Loads (lb)
Vert: J=-851(B) K=-851(B) L=-851(B) M=-851(B) N=-851(B) O=-853(B)



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668633
1800518-1800518A	PB2	Piggyback	12	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:18 2018 Page 1
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2-6-10 / 2-6-10 | 5-1-4 / 2-6-10

Scale = 1:17.5

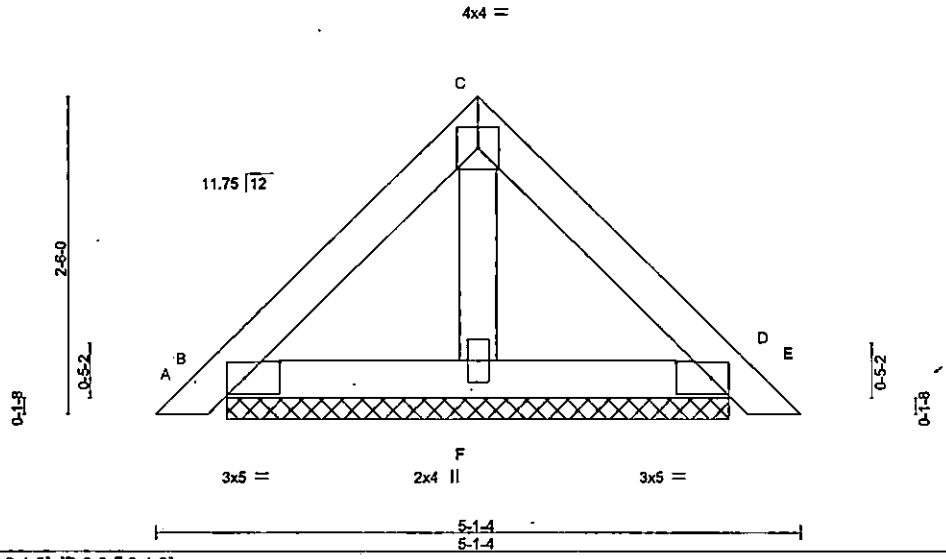


Plate Offsets (X,Y)— [B:0-3-5,0-1-8], [D:0-3-5,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	0.00	D	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(TL)	0.00	E	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(TL)	0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-P							Weight: 19 lb	FT = 20%

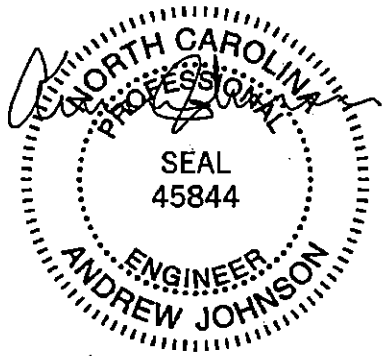
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=119/3-11-11, D=119/3-11-11, F=124/3-11-11
Max Horz B=-80(LC 8)
Max Uplift B=-50(LC 11), D=-59(LC 11)
Max Grav B=119(LC 1), D=119(LC 1), F=124(LC 3)

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) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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) B, D.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668634
1800518-1800518A	PB4	Piggyback	31	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

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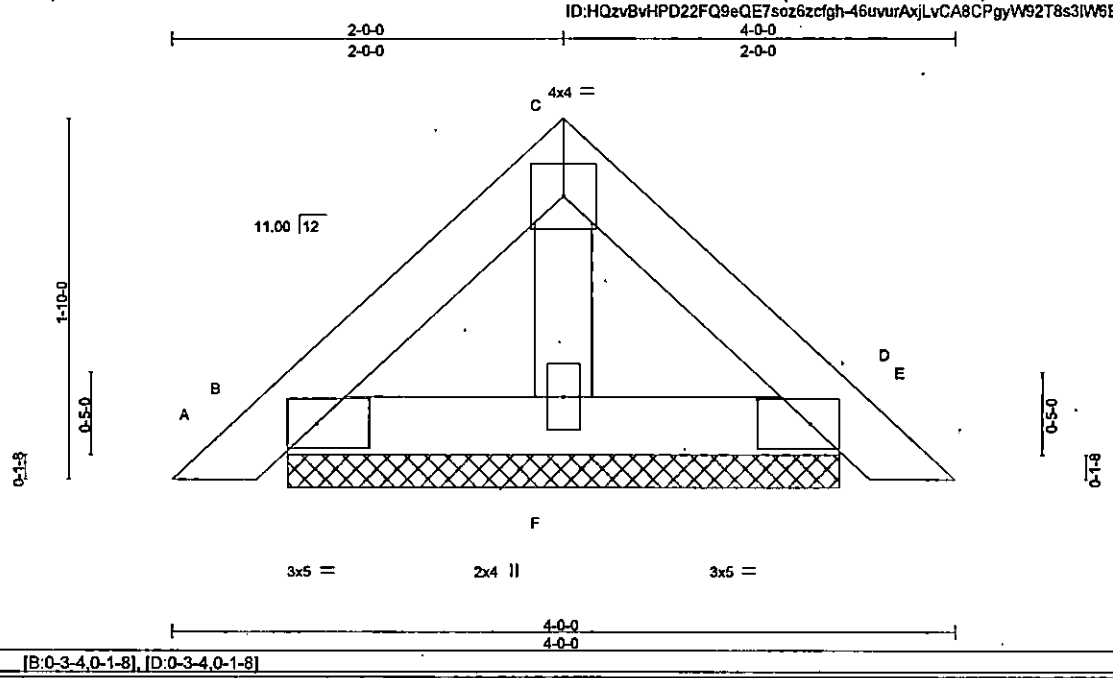


Plate Offsets (X,Y)-- [B:0-3-4,0-1-8], [D:0-3-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	0.00	D	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(TL)	0.00	D	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(TL)	0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-P							Weight: 14 lb	FT = 20%

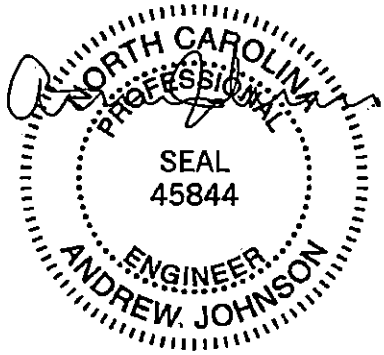
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (lb/size) B=91/2-9-13, D=91/2-9-13, F=88/2-9-13
Max Horz B=57(LC 9)
Max Uplift B=-41(LC 10), D=-48(LC 11)
Max Grav B=91(LC 1), D=91(LC 1), F=88(LC 17)

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) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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) B, D.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668635
1800518-1800518A	T1	Common	2	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

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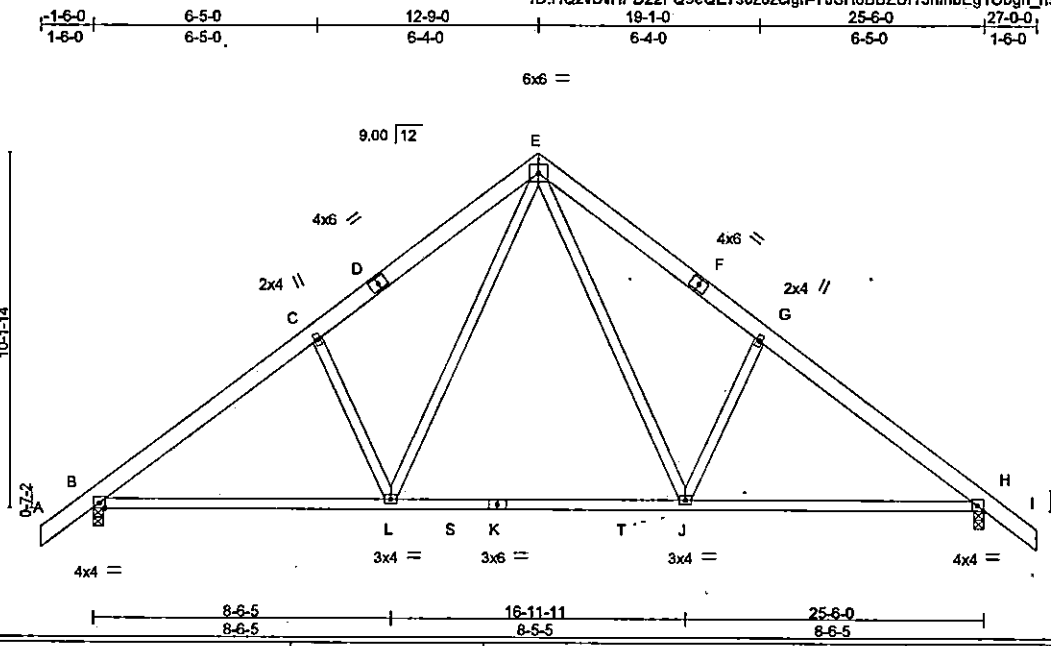


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.25	J-L	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(TL)	-0.39	J-L	>784	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.04	H	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 168 lb	FT = 20%

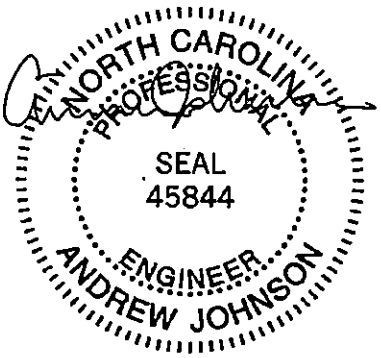
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-10-14 oc bracing.

REACTIONS. (lb/size) B=1110/0-3-8, H=1110/0-3-8
Max Horz B=-371(LC 8)
Max Uplift B=-320(LC 10), H=-320(LC 11)
Max Grav B=1112(LC 17), H=1112(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1368/483, C-E=-1415/609, E-G=-1415/609, G-H=-1368/483
BOT CHORD B-L=-344/1256, J-L=-51/809, H-J=-159/1050
WEBS E-J=-307/702, G-J=-514/416, E-L=-306/702, C-L=-514/415

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=320, H=320.



March 12,2018

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	132668636
1800518-1800518A	T1E	Common Supported Gable	1	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:30 2018 Page 1
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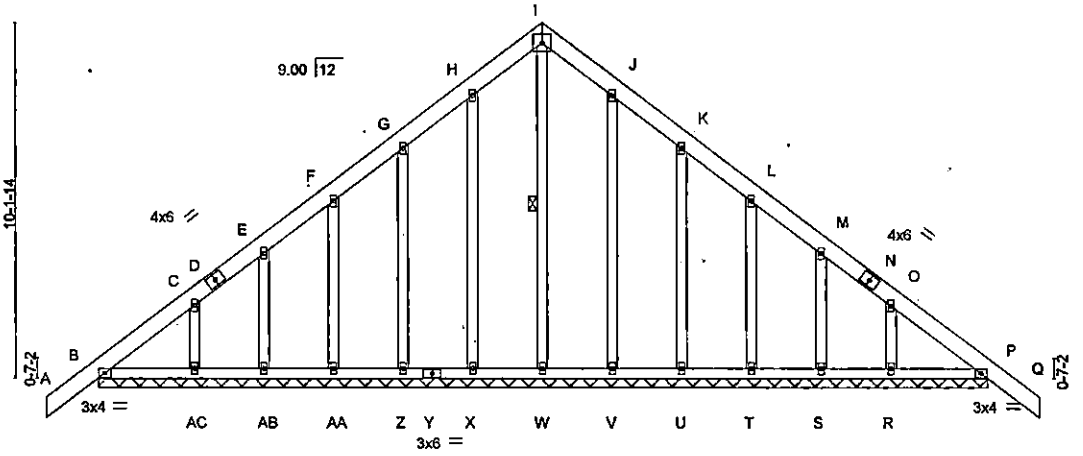
-1-6-0 | 12-9-0 | 25-6-0 | 27-0-0
1-6-0 | 12-9-0 | 12-9-0 | 1-6-0

Scale: 3/16"=1'



25-6-0
25-6-0

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.08	Vert(LL) -0.00 Q n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.06	Vert(TL) -0.00 Q n/r 90	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Horz(TL) 0.01 P n/a n/a	
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S		Weight: 209 lb FT = 20%

LUMBER-
TOP CHORD 2x6 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.
WEBS 1 Row at midpt I-W

REACTIONS. All bearings 25-6-0.
(lb) - Max Horz B=371(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) W, X, V, P except B=-114(LC 6), Z=-136(LC 10), AA=-121(LC 10), AB=-118(LC 10), AC=-152(LC 10), U=-141(LC 11), T=-121(LC 11), S=-118(LC 11), R=-148(LC 11)
Max Grav All reactions 250 lb or less at joint(s) X, Z, AA, AB, AC, V, U, T, S, R, P except B=268(LC 18), W=290(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-329/286, G-H=-209/299, H-I=-263/335, I-J=-263/335, J-K=-209/271
BOT CHORD B-AC=-133/275, AB-AC=-133/275, AA-AB=-133/275, Z-AA=-133/275, X-Z=-133/275, W-X=-133/275, V-W=-133/275, U-V=-133/275, T-U=-133/275, S-T=-133/275, R-S=-133/275, P-R=-133/275
WEBS I-W=-269/146, C-AC=-268/184, O-R=-268/179

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 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 and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) W, X, V, P except (jt=lb) B=114, Z=136, AA=121, AB=118, AC=152, U=141, T=121, S=118, R=148.

NORTH CAROLINA PROFESSIONAL SEAL 45844 ENGINEER ANDREW JOHNSON
March 12,2018

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668637
1800518-1800518A	T2	Common	1	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:31 2018 Page 1
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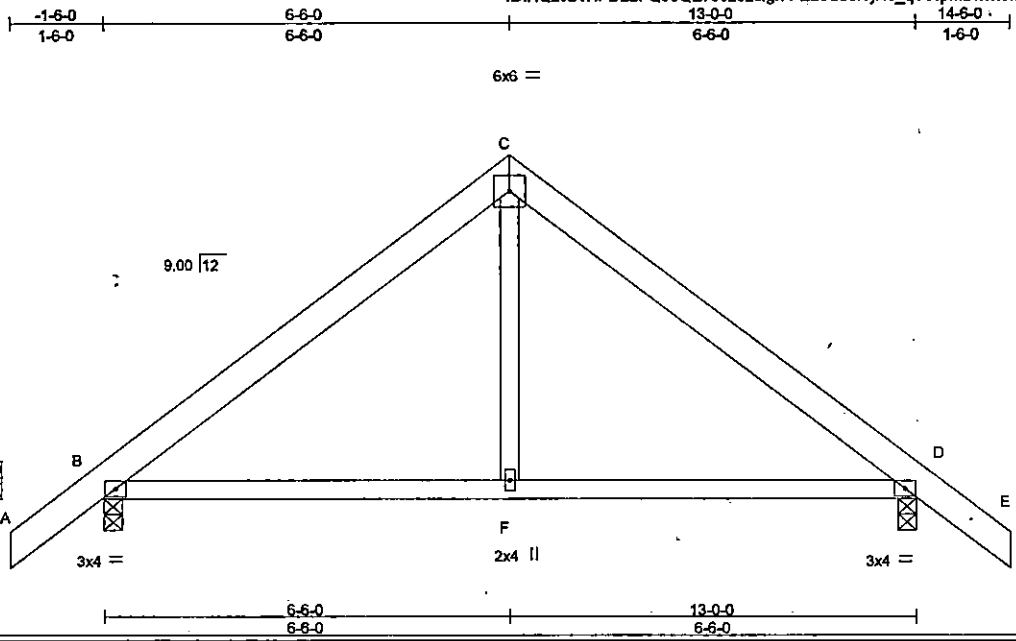


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.04	F-I	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(TL)	-0.07	F-L	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(TL)	0.01	D	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 75 lb	FT = 20%

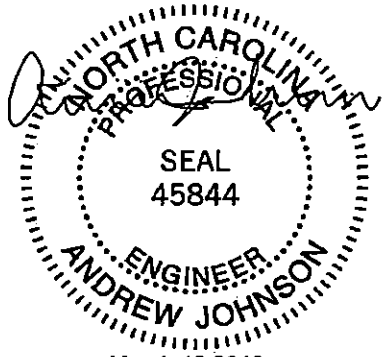
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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) B=610/0-3-8, D=610/0-3-8
Max Horz B=208(LC 9)
Max Uplift B=-190(LC 10), D=-190(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-564/196, C-D=-564/196
BOT CHORD B-F=-23/415, D-F=-23/415
WEBS C-F=0/271

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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=190, D=190.



March 12,2018

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668638
1800518-1800518A	T2E	Common Supported Gable	1	1	Job Reference (optional)	

84 Components, Dunn, NC 28334 — 8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:31 2018 Page 1
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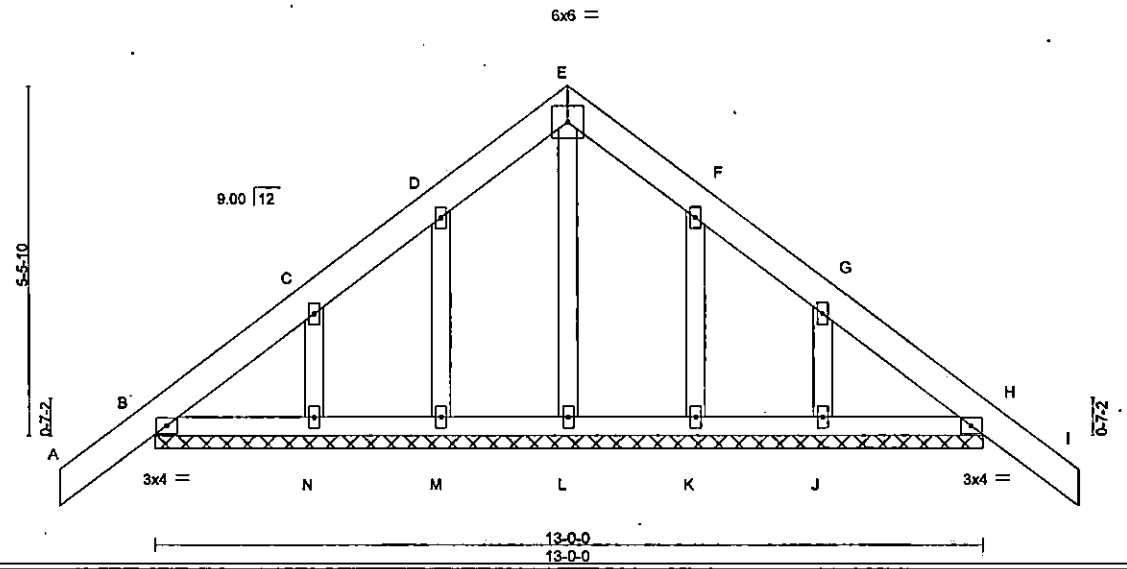
-1-6-0 | 6-6-0 | 13-0-0 | 14-6-0
1-6-0 | 6-6-0 | 6-6-0 | 1-6-0

Scale = 1:34.8



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	-0.00	I	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(TL)	-0.00	I	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	H	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 89 lb	FT = 20%

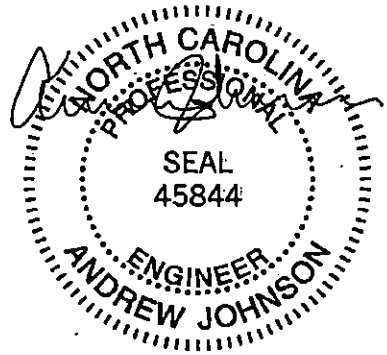
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 13-0-0.
(lb) - Max Horz B=-208(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) B, H except M=-115(LC 10), N=-135(LC 10), K=-109(LC 11), J=-134(LC 11)
Max Grav All reactions 250 lb or less at joint(s) B, H, L, M, N, K, J

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-N=-258/166, G-J=-258/165

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 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 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, H except (jt=lb) M=115, N=135, K=109, J=134.



March 12,2018

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668639
1800518-1800518A	T3	Common	1	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:32 2018 Page 1
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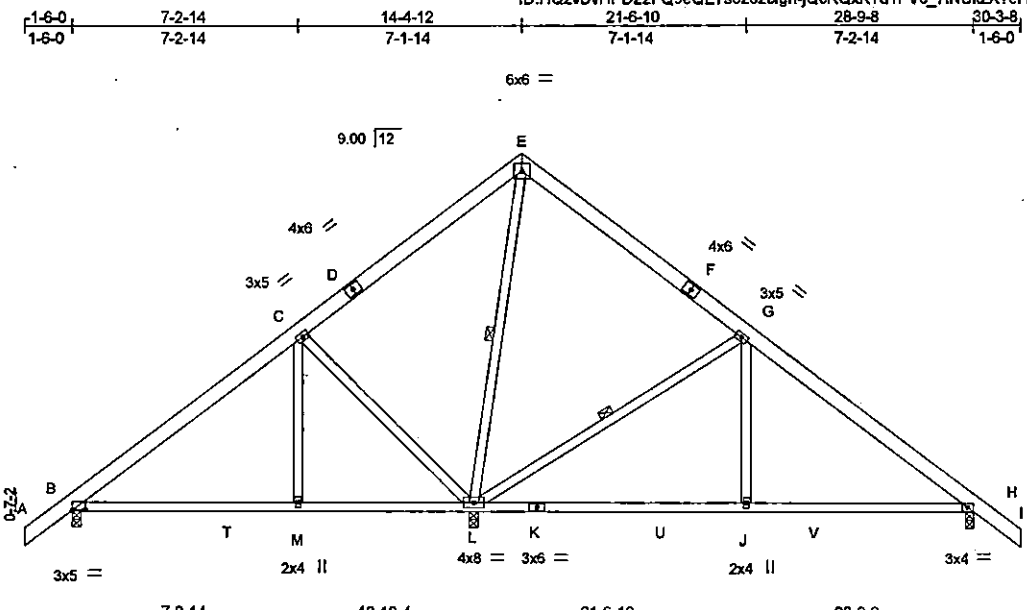


Plate Offsets (X,Y)— [B:0-5-0,0-0-6]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.11	J-L	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(TL)	-0.28	J-L	>694	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(TL)	0.02	H	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 195 lb	FT = 20%

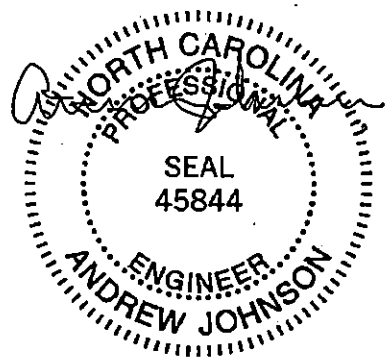
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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.
WEBS 1 Row at midpt E-L, G-L

REACTIONS. (lb/size) B=529/0-3-8, L=1286/0-3-8, H=668/0-3-0
Max Horz B=-413(LC 8)
Max Uplift B=-161(LC 10), L=-348(LC 10), H=-261(LC 11)
Max Grav B=553(LC 21), L=1381(LC 17), H=736(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-428/196, C-E=-98/362, G-H=-708/242
BOT CHORD B-M=-210/447, L-M=-210/447, J-L=0/473, H-J=0/473
WEBS E-L=-513/49, G-L=-785/430, G-J=0/356, C-L=-711/436

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=161, L=348, H=261.



March 12,2018

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668640
1800518-1800518A	T3SE	GABLE	1	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:34 2018 Page 1
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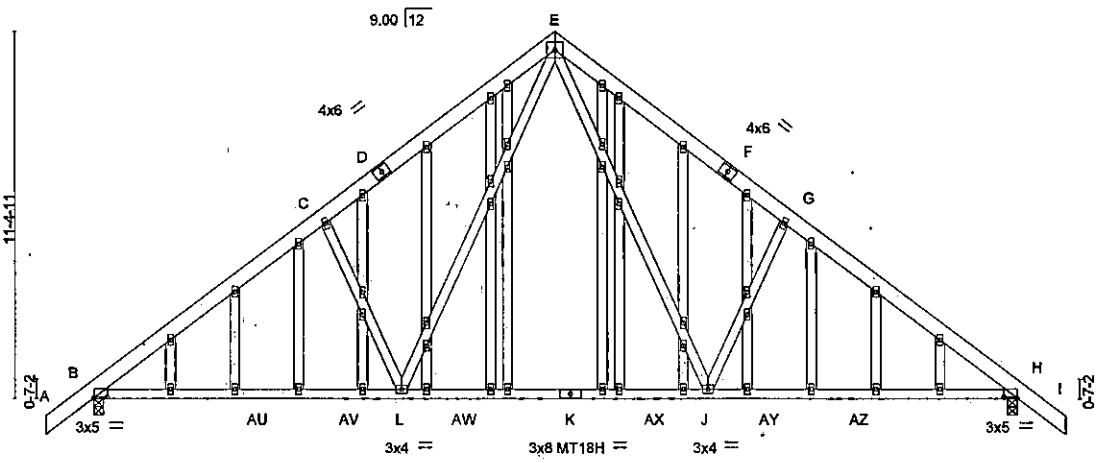
1-6-0	7-2-14	14-4-12	21-6-10	28-9-8	30-3-8
1-6-0	7-2-14	7-1-14	7-1-14	7-2-14	1-6-0

Scale = 1:69.1



9-7-8	19-2-0	28-9-8
9-7-8	9-6-8	9-7-8

Plate Offsets (X,Y)— [B:0-5-0,0-0-6], [H:0-5-0,0-0-6]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.28	J-L	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.96	Vert(TL)	-0.50	B-L	>687	180	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(TL)	0.06	H	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 312 lb	FT = 20%

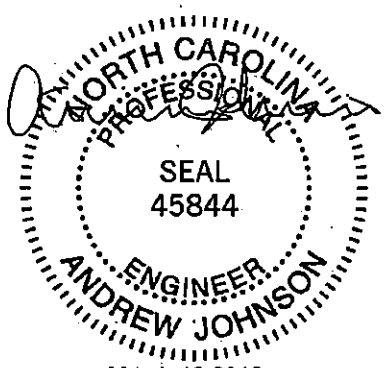
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS. (lb/size) B=1239/0-3-8, H=1239/0-3-8
Max Horz B=-413(LC 8)
Max Uplift B=-355(LC 10), H=-355(LC 11)
Max Grav B=1332(LC 17), H=1332(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1616/537, C-E=-1582/687, E-G=-1582/687, G-H=-1616/537
BOT CHORD B-L=-391/1488, J-L=-55/956, H-J=-196/1255
WEBS E-J=-349/858, G-J=-567/479, E-L=-349/857, C-L=-567/479

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 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 and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=355, H=355.



March 12,2018

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668641
1800518-1800518A	T4	Common	2	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:35 2018 Page 1
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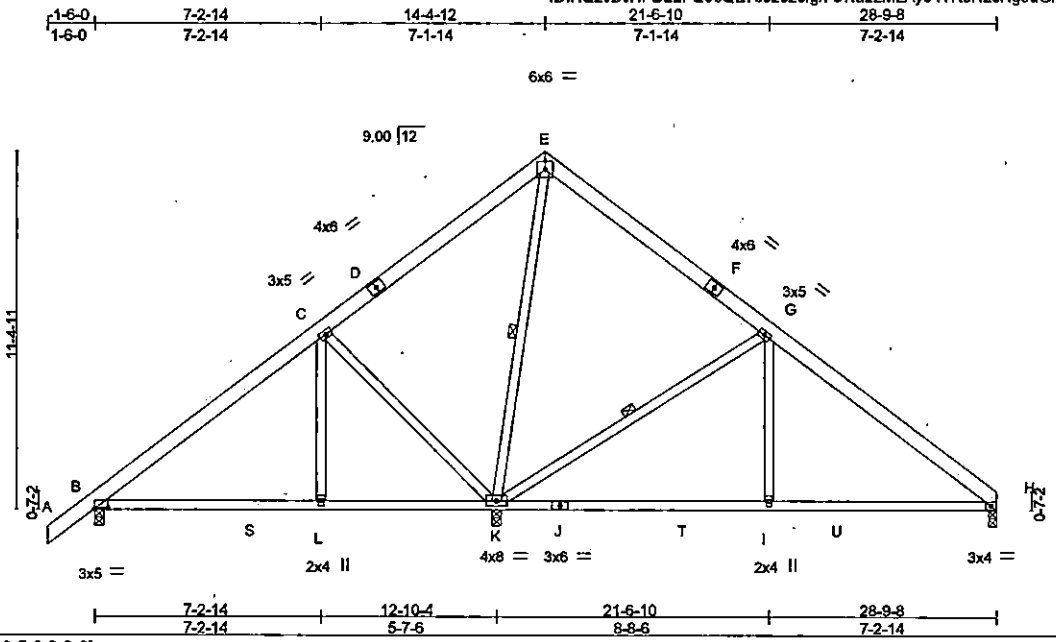


Plate Offsets (X,Y)— [B:0-5-0,0-0-6]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.11	I-K	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(TL)	-0.27	I-K	>698	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(TL)	0.02	H	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 190 lb	FT = 20%

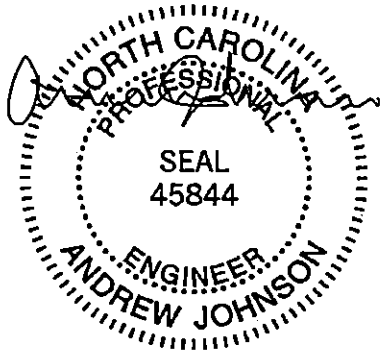
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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.
WEBS 1 Row at midpt E-K, G-K

REACTIONS. (lb/size) B=532/0-3-8, K=1284/0-3-8, H=577/0-3-0
Max Horz B=400(LC 7)
Max Uplift B=-156(LC 10), K=-359(LC 10), H=-197(LC 11)
Max Grav B=554(LC 21), K=1372(LC 17), H=644(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-430/180, C-E=-103/346, G-H=-717/231
BOT CHORD B-L=-221/436, K-L=-221/436, I-K=-42/494, H-I=-42/494
WEBS E-K=-501/58, G-K=-798/441, G-I=0/357, C-K=-710/436

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=156, K=359, H=197.



March 12,2018

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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668642
1800518-1800518A	T5	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

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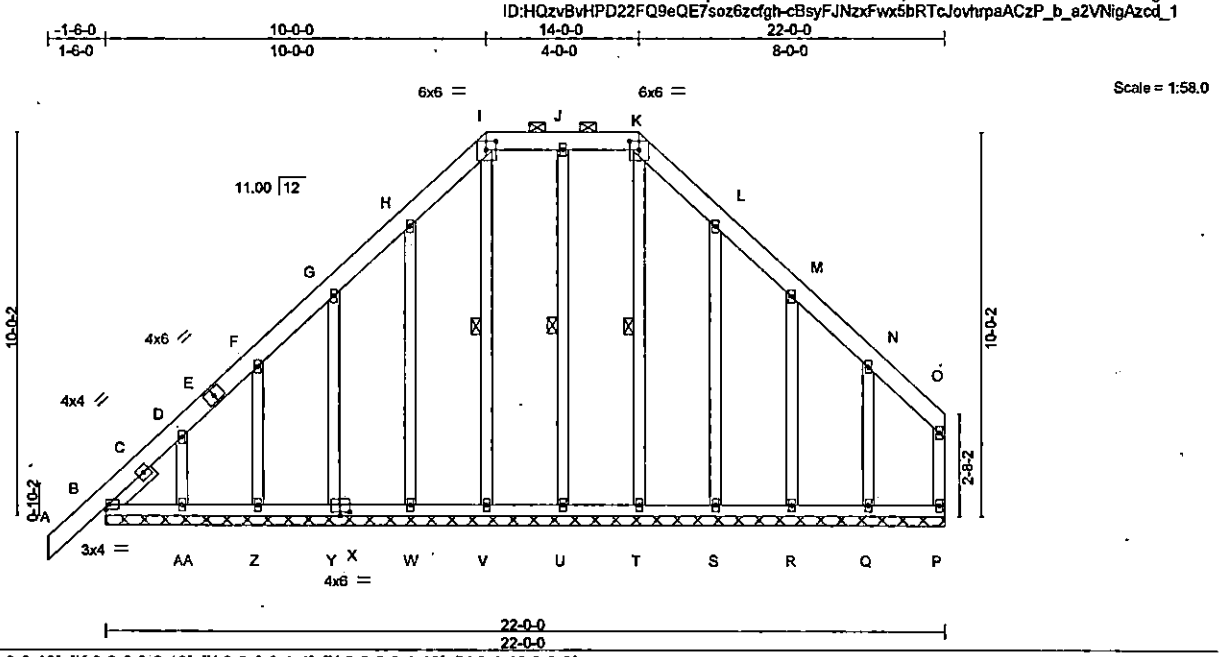


22-0-0
22-0-0

Plate Offsets (X,Y)— [I:0-3-0,0-2-12], [K:0-3-0,0-2-12], [X:0-3-0,0-1-4], [X:0-0-0,0-1-12], [Y:0-1-12,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	-0.00	A	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	-0.00	A	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(TL)	-0.00	P	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 205 lb	FT = 20%

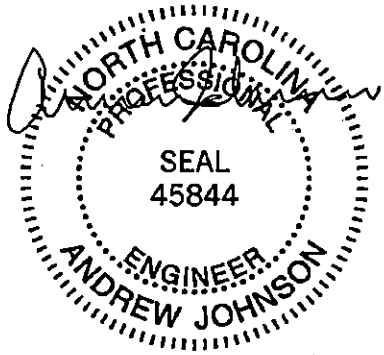
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): I-K.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt K-T, J-U, I-V

REACTIONS. All bearings 22-0-0.
(lb) - Max Horz B=398(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) P, T, U except B=-303(LC 6), V=-115(LC 9), W=-135(LC 10), Y=-163(LC 10), Z=-146(LC 10), AA=-188(LC 10), S=-125(LC 11), R=-163(LC 11), Q=-181(LC 11)
Max Grav All reactions 250 lb or less at joint(s) P, T, U, V, W, Y, Z, AA, S, R, Q except B=378(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-466/429, D-F=-382/369, F-G=-349/365, G-H=-336/383, H-I=-425/491, I-J=-351/415, J-K=-351/415, K-L=-425/491, L-M=-336/383

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 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) P, T, U except (jt=lb) B=303, V=115, W=135, Y=163, Z=146, AA=188, S=125, R=163, Q=181.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668643
1800518-1800518A	T6	Piggyback Base	6	1	Job Reference (optional)	

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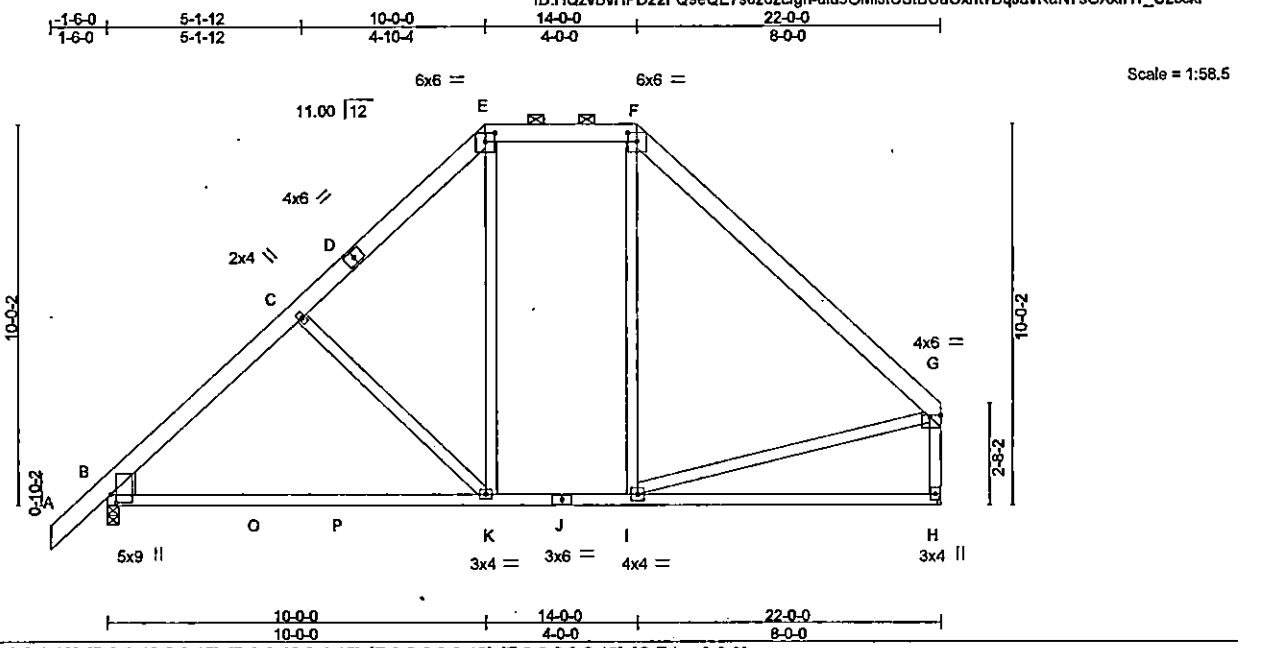


Plate Offsets (X,Y)— [B:0-2-8,0-1-13], [B:0-0-13,0-0-15], [B:0-0-13,0-4-15], [E:0-3-0,0-2-12], [F:0-3-0,0-2-12], [G:Edge,0-0-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	0.23	K-N	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(TL)	-0.52	K-N	>507	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(TL)	0.02	B	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 160 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x8 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): E-F.
BOT CHORD Rigid ceiling directly applied or 9-11-9 oc bracing.

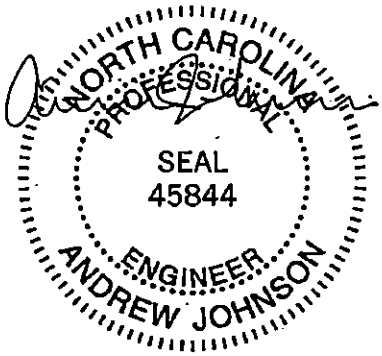
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) B=967/0-3-8 (min. 0-1-8), H=871/Mechanical
Max Horz B=403(LC 9)
Max Uplift B=-259(LC 10), H=-183(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-972/411, C-D=-850/405, D-E=-809/434, E-F=-674/419, F-G=-820/346, G-H=-800/344
BOT CHORD B-O=-309/867, O-P=-309/867, K-P=-309/867, J-K=-147/566, I-J=-147/566
WEBS C-K=-459/379, E-K=-140/438, G-I=-184/554

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 259 lb uplift at joint B and 183 lb uplift at joint H.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668644
1800518-1800518A	T7	Piggyback Base	8	1	Job Reference (optional)	

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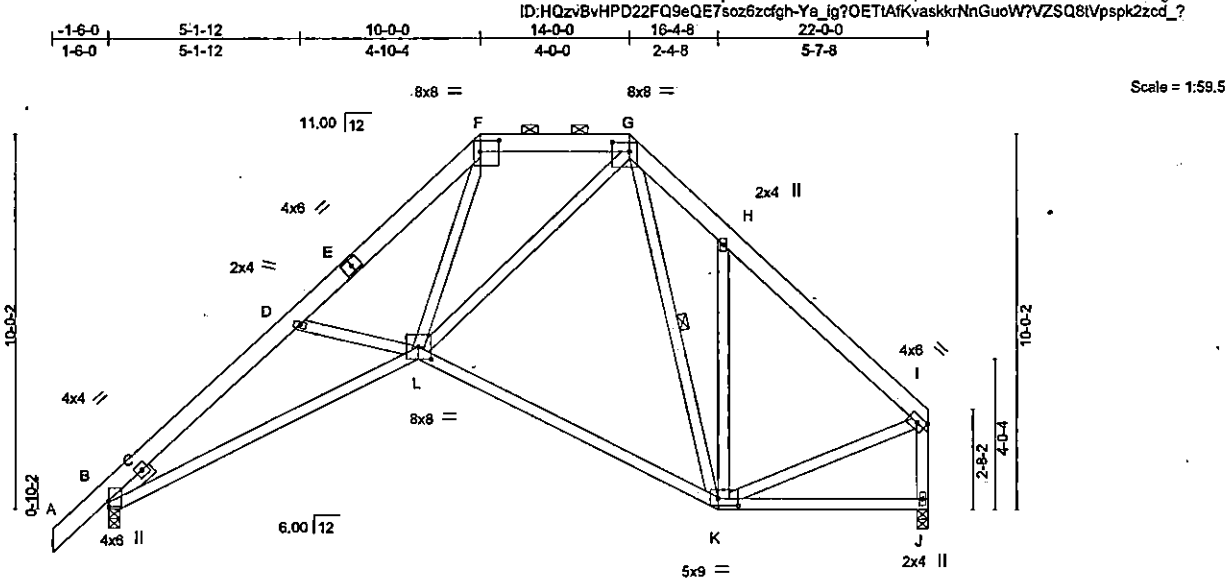


Plate Offsets (X,Y)-- [B:0-1-14,0-0-2], [F:0-6-0,0-3-8], [G:0-5-8,0-3-0], [K:0-6-8,0-2-4], [L:0-4-0,0-3-15]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.17	K-L	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(TL)	-0.47	K-L	>563	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(TL)	0.14	J	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 171 lb	FT = 20%

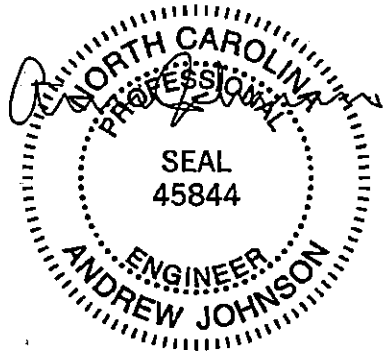
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): F-G.
BOT CHORD Rigid ceiling directly applied or 7-2-8 oc bracing.
WEBS 1 Row at midpt G-K

REACTIONS. (lb/size) B=981/0-3-8, J=870/0-3-8
Max Horz B=402(LC 9)
Max Uplift B=-254(LC 10), J=-183(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-1828/2067, D-F=-1549/436, F-G=-891/398, G-H=-1012/628, H-I=-793/342, I-J=-822/330
BOT CHORD B-L=-652/1620, K-L=-192/607
WEBS D-L=-413/379, F-L=-131/742, G-L=-315/644, G-K=-387/406, H-K=-485/434, I-K=-74/525

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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) Bearing at joint(s) B considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=254, J=183.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 12,2018

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668645
1800518-1800518A	T8	Piggyback Base	5	1	Job Reference (optional)	

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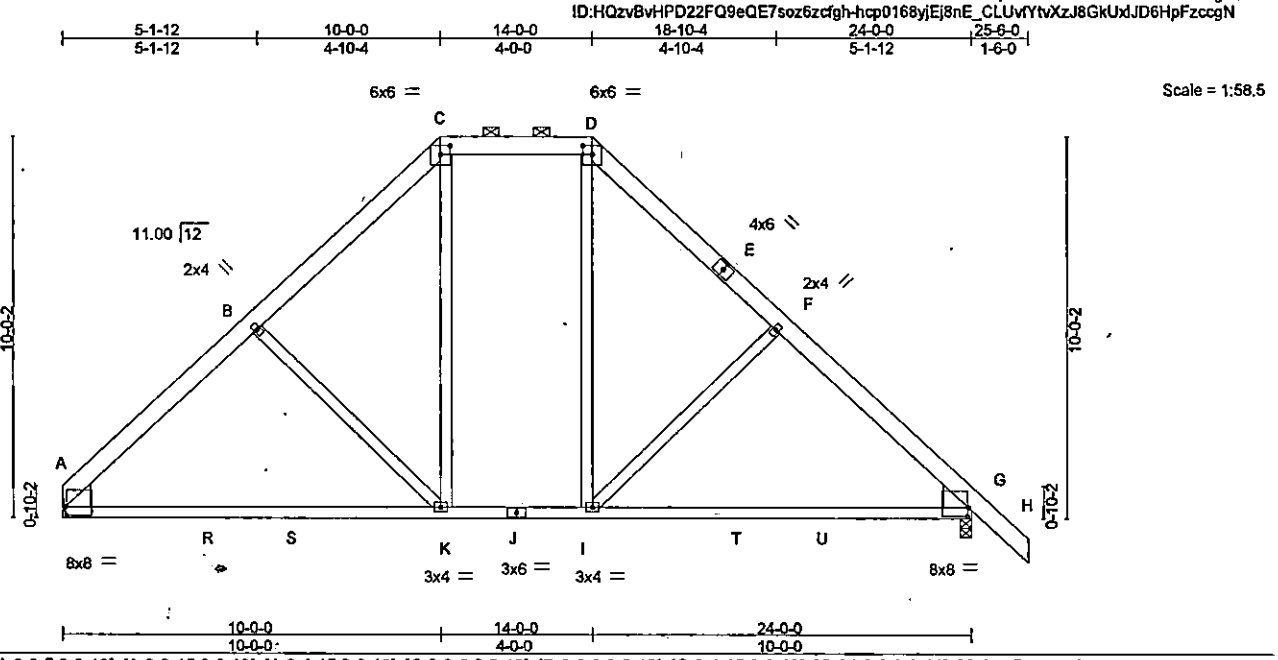


Plate Offsets (X,Y)-- [A:0-0-5,0-2-12], [A:0-0-15,0-0-13], [A:0-4-15,0-0-13], [C:0-3-0,0-2-12], [D:0-3-0,0-2-12], [G:0-4-15,0-0-13], [G:24-0-0,0-2-11], [G:0-0-5,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	0.18	K-N	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.78	Vert(TL)	-0.43	K-N	>669	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(TL)	0.03	G	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 167 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x8 SP No.2, Right: 2x8 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): C-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

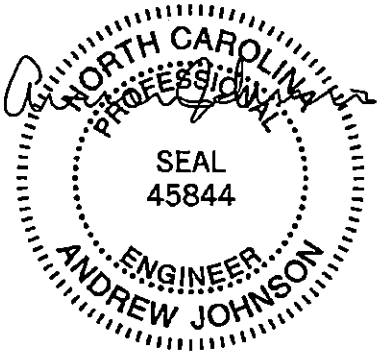
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) A=957/Mechanical, G=1053/0-3-8 (min. 0-1-10)
Max Horz A=-352(LC 6)
Max Uplift A=-221(LC 10), G=-275(LC 11)
Max Grav A=960(LC 2), G=1053(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1096/459, B-C=-967/481, C-D=-771/448, D-E=-930/475, E-F=-968/446, F-G=-1110/452
BOT CHORD A-R=-274/984, R-S=-274/984, K-S=-274/984, J-K=-85/712, I-J=-85/712, I-T=-81/772, T-U=-81/772, G-U=-81/772
WEBS B-K=-426/388, C-K=-151/436, D-I=-142/430, F-I=-435/378

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint A and 275 lb uplift at joint G.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



March 12,2018

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668646
1800518-1800518A	T9	ROOF TRUSS	2	1	Job Reference (optional)	

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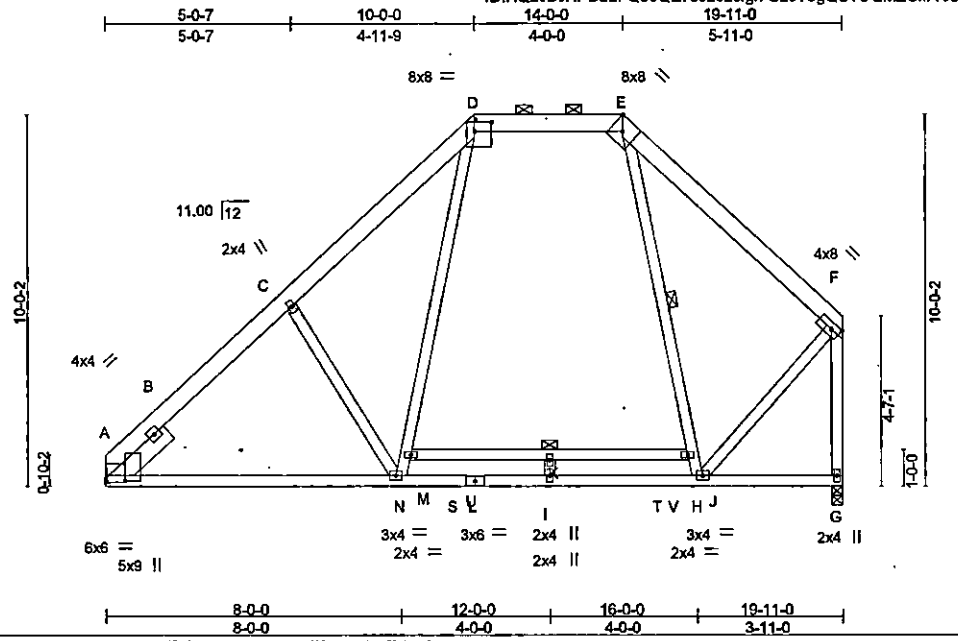


Scale = 1:59.9

Plate Offsets (X,Y)— [A:0-0-0,0-1-7], [A:0-0-15,0-6-4], [D:0-5-8,0-3-0], [E:0-3-10,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.30	I-N	>797	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.96	Vert(TL)	-0.55	I-N	>431	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(TL)	0.02	G	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 157 lb	FT = 20%

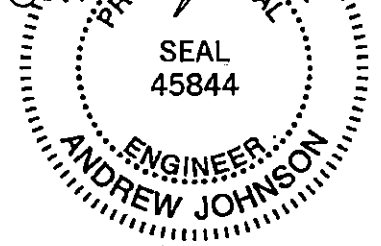
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 2-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): D-E.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing, Except:
10-0-0 oc bracing: A-N.
6-0-0 oc bracing: J-M
WEBS 1 Row at midpt E-H

REACTIONS. (lb/size) A=850/Mechanical, G=882/0-3-8
Max Horz A=405(LC 9)
Max Uplift A=-147(LC 10), G=-126(LC 10)
Max Grav A=893(LC 2), G=1002(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-C=-1066/310, C-D=-987/415, D-E=-599/359, E-F=-688/295, F-G=-1074/237
BOT CHORD A-N=-305/935, I-N=-148/574, H-I=-148/574
WEBS C-N=-478/431, M-N=-239/631, D-M=-203/753, F-H=-124/818

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=147, G=126.
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.



March 12,2018

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TRENCO
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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668647
1800518-1800518A	T10	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:22 2018 Page 1
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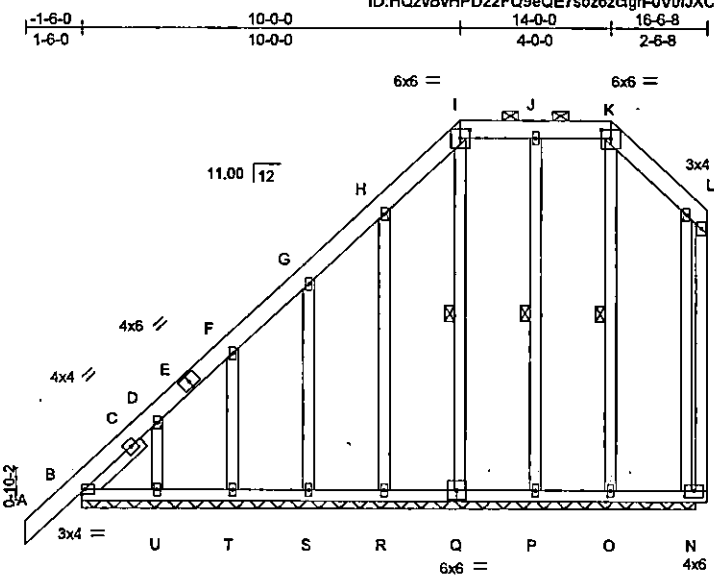


Plate Offsets (X,Y)— [I:0-3-0,0-2-12], [K:0-3-0,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	-0.00	A	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(TL)	-0.00	A	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(TL)	-0.00	N	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 174 lb	FT = 20%

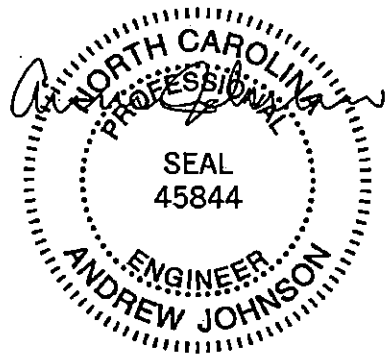
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 2-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): I-K.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt K-O, J-P, I-Q

REACTIONS. All bearings 16-3-0.
(lb) - Max Horz B=489(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) O except N=-122(LC 6), B=-217(LC 6), P=-102(LC 7), Q=-119(LC 7), R=-143(LC 10), S=-159(LC 10), T=-149(LC 10), U=-201(LC 10)
Max Grav All reactions 250 lb or less at joint(s) N, O, P, Q, R, S, T, U except B=377(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-525/369, D-F=-395/292, F-G=-353/266, G-H=-318/260, H-I=-300/328, I-J=-256/291, J-K=-256/291, K-L=-330/363, L-M=-293/320, M-N=-258/276
WEBS D-U=-263/224

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 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 and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) O except (jt=lb) N=122, B=217, P=102, Q=119, R=143, S=159, T=149, U=201.
10) Non Standard bearing condition. Review required.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668648
1800518-1800518A	T11	ROOF TRUSS	2	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:23 2018 Page 1
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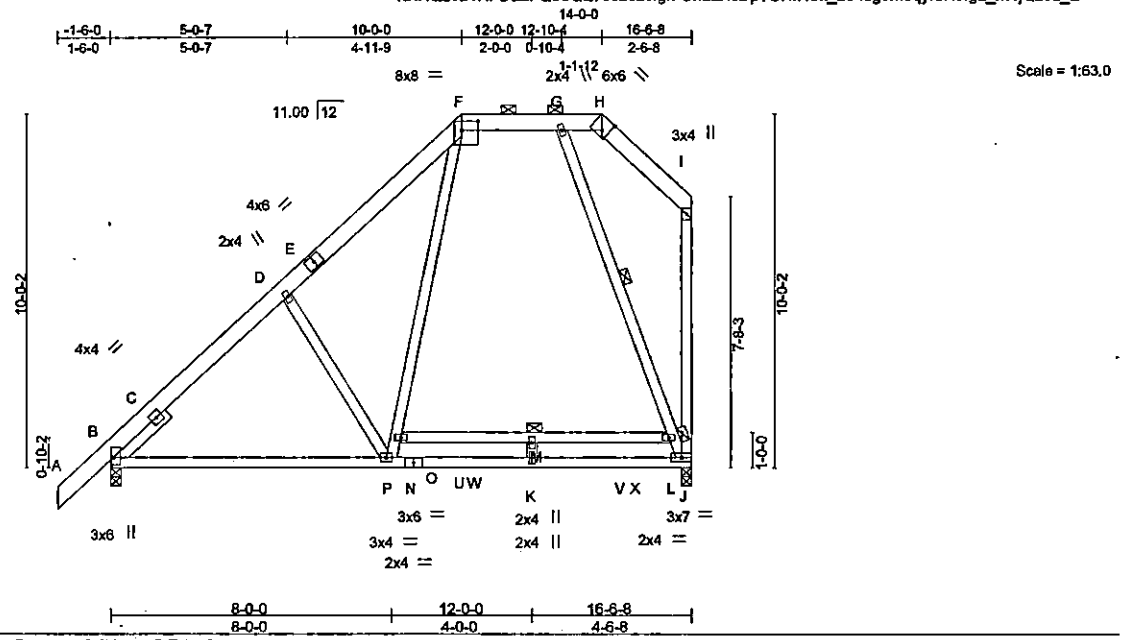


Scale = 1:63.0

Plate Offsets (X,Y)-- [B:0-2-8,0-0-11], [F:0-5-8,0-3-0], [H:0-2-5,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	-0.38	M	>517	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.99	Vert(TL)	-0.71	M-O	>273	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(TL)	0.02	J	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 143 lb	FT = 20%

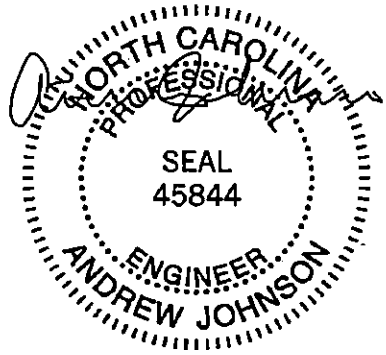
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 2-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): F-H.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 6-0-0 oc bracing: L-O
WEBS 1 Row at midpt G-L

REACTIONS. (lb/size) B=796/0-3-8, J=761/0-3-8
Max Horz B=495(LC 9)
Max Uplift B=-177(LC 10), J=-125(LC 10)
Max Grav B=803(LC 18), J=924(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-825/247, D-F=-777/349, F-G=-440/311, G-H=-270/295, H-I=-251/301, I-J=-204/255
BOT CHORD B-P=-325/730, K-P=-209/458, J-K=-209/458
WEBS D-P=-493/404, O-P=-223/630, F-O=-190/791, G-L=-886/378, J-L=-1042/340

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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 100 lb uplift at joint(s) except (jt=lb) B=177, J=125.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
8) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668649
1800518-1800518A	T12	ROOF TRUSS	6	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:25 2018 Page 1
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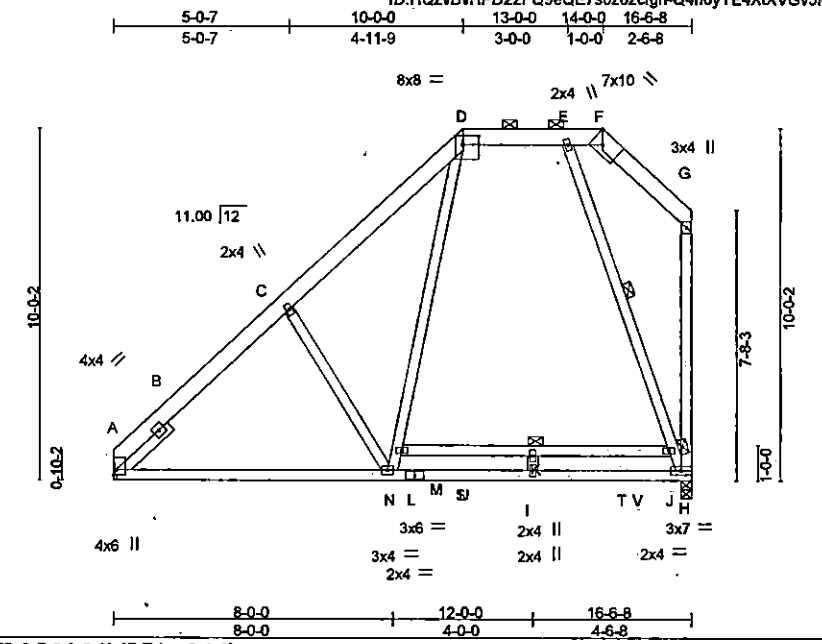


Scale = 1:63.3

Plate Offsets (X,Y)— [A:Edge,0-0-15], [D:0-5-8,0-3-0], [F:Edge,0-4-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	-0.38	K	>514	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.99	Vert(TL)	-0.73	K-M	>270	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(TL)	0.02	H	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS							Weight: 138 lb	FT = 20%

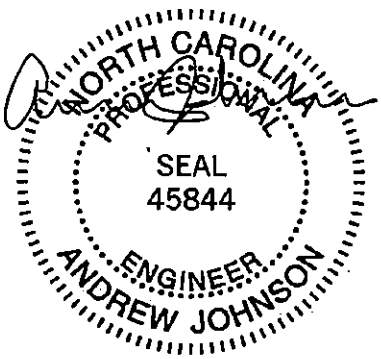
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 2-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): D-F.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 6-0-0 oc bracing: J-M
WEBS 1 Row at midpt E-J

REACTIONS. (lb/size) A=695/Mechanical, H=770/0-3-8
Max Horz A=461(LC 9)
Max Uplift A=-119(LC 10), H=-129(LC 10)
Max Grav A=706(LC 2), H=934(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-C=-833/261, C-D=-784/369, D-E=-438/315, E-F=-271/295, F-G=-255/298, G-H=-210/264
BOT CHORD A-N=-329/755, I-N=-210/461, H-I=-210/461
WEBS C-N=-502/421, M-N=-239/660, D-M=-206/820, E-J=-919/390, H-J=-1077/352

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=119, H=129.
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.



March 12,2018

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TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668651
1800518-1800518A	T13A	ATTIC	3	1	Job Reference (optional)	

84 Components, Dunn, NC 28334 — 8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:27 2018 Page 1
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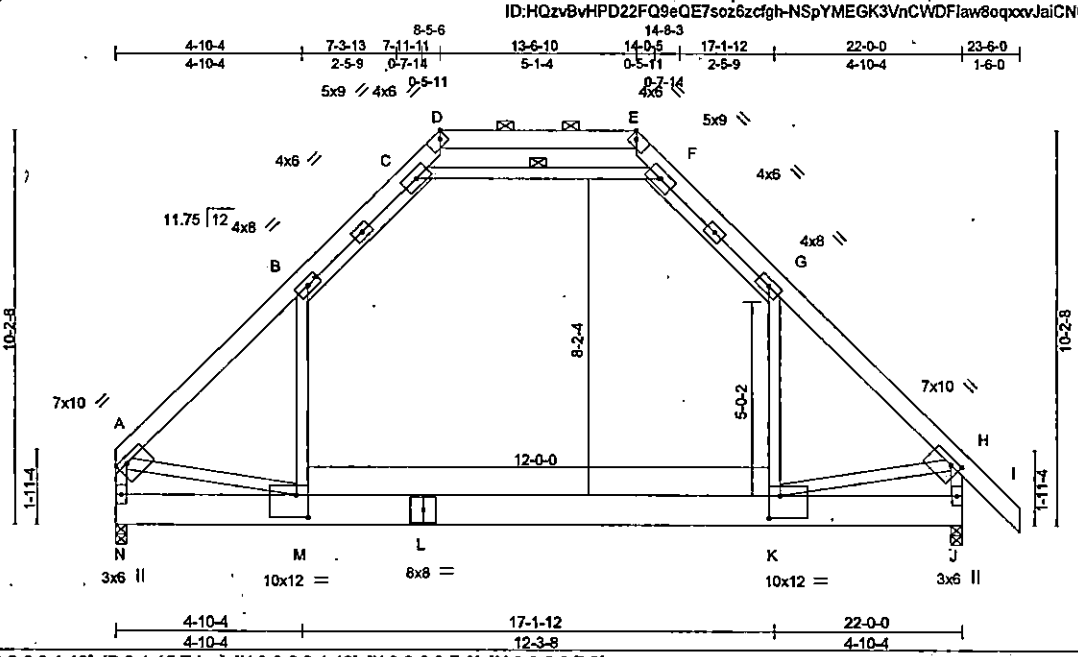


Plate Offsets (X,Y)— [A:0-3-0,0-1-12], [D:0-1-15,Edge], [H:0-3-0,0-1-12], [K:0-3-8,0-7-0], [M:0-3-8,0-7-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.24	K-M	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(TL)	-0.43	K-M	>613	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.01	J	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-MS		Attic	-0.15	K-M	968	360	Weight: 215 lb	FT = 20%

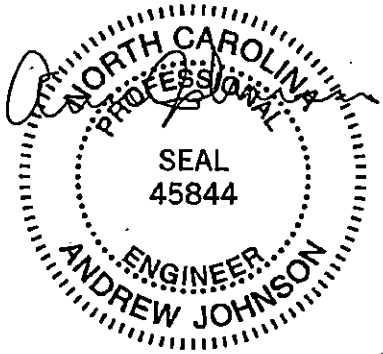
LUMBER-
TOP CHORD 2x6 SP DSS *Except* D-E: 2x6 SP No.2, B-C,F-G: 2x4 SP No.2
BOT CHORD 2x10 SP No.2
WEBS 2x4 SP No.3 *Except* B-M,C-F,G-K: 2x4 SP No.2

BRACING-
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.): D-E.
BOT CHORD Rigid ceiling directly applied or 9-1-14 oc bracing.
WEBS 1 Row at midpt C-F

REACTIONS. (lb/size) N=1047/0-3-8, J=1154/0-3-8
Max Horz N=-392(LC 6)
Max Uplift N=-51(LC 10), J=-107(LC 11)
Max Grav N=1308(LC 2), J=1397(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1472/131, B-C=-894/325, C-D=-53/712, D-E=-92/1114, E-F=-49/713, F-G=-893/322, G-H=-1480/157, A-N=-1393/140, H-J=-1476/262
BOT CHORD M-N=-337/459, K-M=-37/980
WEBS B-M=-7/734, C-F=-1925/452, G-K=-9/747, A-M=-92/875, H-K=-90/888

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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). B-C, F-G, C-F; Wall dead load (5.0psf) on member(s).B-M, G-K
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. K-M
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) N except (jt=lb) J=107.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668652
1800518-1800518A	T13E	GABLE	1	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:28 2018 Page 1
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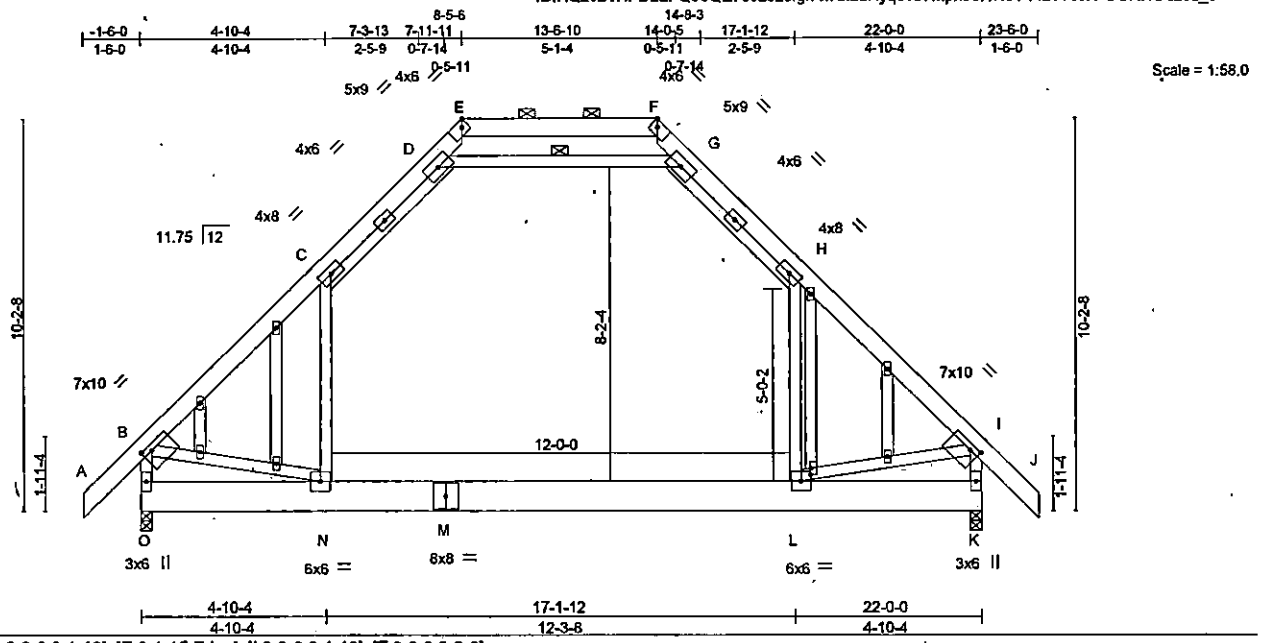


Plate Offsets (X,Y)— [B:0-3-0,0-1-12], [E:0-1-15,Edge], [I:0-3-0,0-1-12], [T:0-2-0,0-0-2]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC	0.68	Vert(LL)	-0.24	L-N	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL 1.25	BC	0.88	Vert(TL)	-0.42	L-N	>616	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.60	Horz(TL)	0.01	K	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007	Matrix-MS		Attic	-0.15	L-N	969	360	Weight: 239 lb	FT = 20%

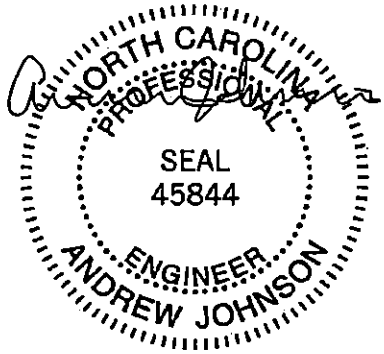
LUMBER-
TOP CHORD 2x6 SP DSS *Except*
E-F: 2x6 SP No.2, C-D,G-H: 2x4 SP No.2
BOT CHORD 2x10 SP No.2
WEBS 2x4 SP No.3 *Except*
C-N,D-G,H-L: 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
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.): E-F.
BOT CHORD Rigid ceiling directly applied or 9-1-14 oc bracing.
WEBS 1 Row at midpt D-G

REACTIONS. (lb/size) O=1150/0-3-8, K=1150/0-3-8
Max Horz O=411(LC 9)
Max Uplift O=-108(LC 10), K=-108(LC 11)
Max Grav O=1394(LC 2), K=1394(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1473/153, C-D=-890/322, D-E=-46/706, E-F=-80/1105, F-G=-46/706, G-H=-890/322, H-I=-1472/153, B-O=-1469/258, I-K=-1469/258
BOT CHORD N-O=-361/480, L-N=-37/974
WEBS C-N=-9/744, D-G=-1905/428, H-L=-8/744, B-N=-85/878, I-L=-90/882

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 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 and any other members.
9) Ceiling dead load (5.0 psf) on member(s). C-D, G-H, D-G; Wall dead load (5.0psf) on member(s).C-N, H-L
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. L-N
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) O=108, K=108.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668653
1800518-1800518A	V1	Valley	1	1	Job Reference (optional)	

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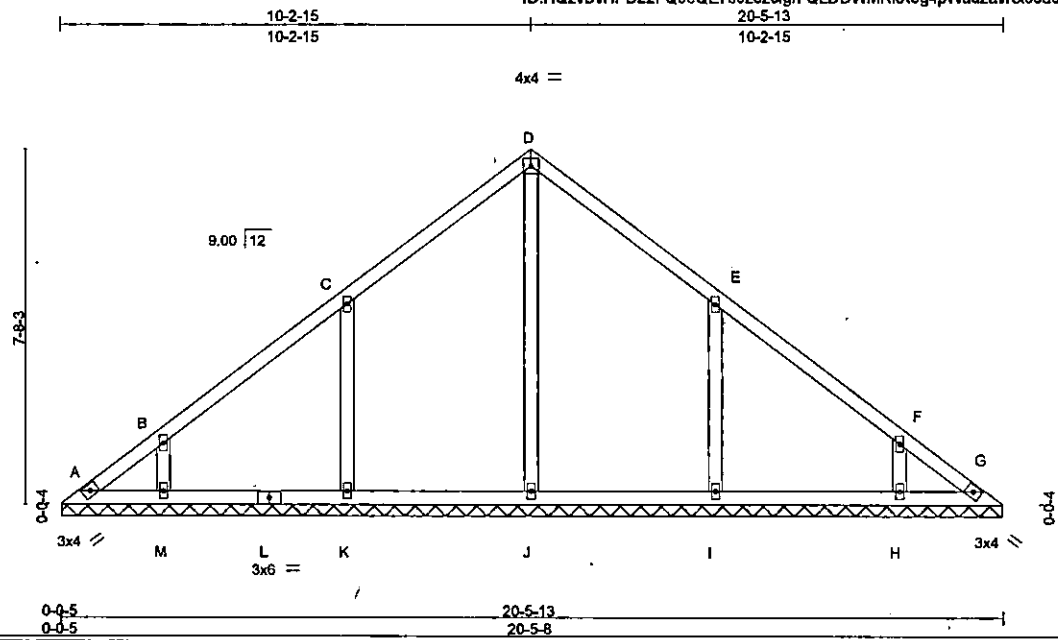


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(TL)	0.01	G	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 93 lb	FT = 20%

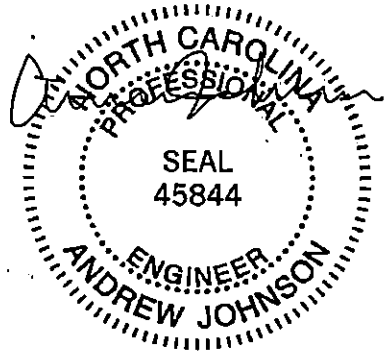
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 20-5-3.
(lb) - Max Horz A=255(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) A, G except K=-272(LC 10), M=-197(LC 10), I=-272(LC 11), H=-197(LC 11)
Max Grav All reactions 250 lb or less at joint(s) A, G except J=402(LC 20), K=466(LC 17), M=294(LC 17), I=465(LC 18), H=295(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-269/203
WEBS C-K=-376/322, B-M=-285/238, E-I=-376/321, F-H=-285/238

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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 2x4 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 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 100 lb uplift at joint(s) A, G except (jt=lb) K=272, M=197, I=272, H=197.



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Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	
1800518-1800518A	V2	Valley	1	1	Job Reference (optional)	I32668654

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:43 2018 Page 1
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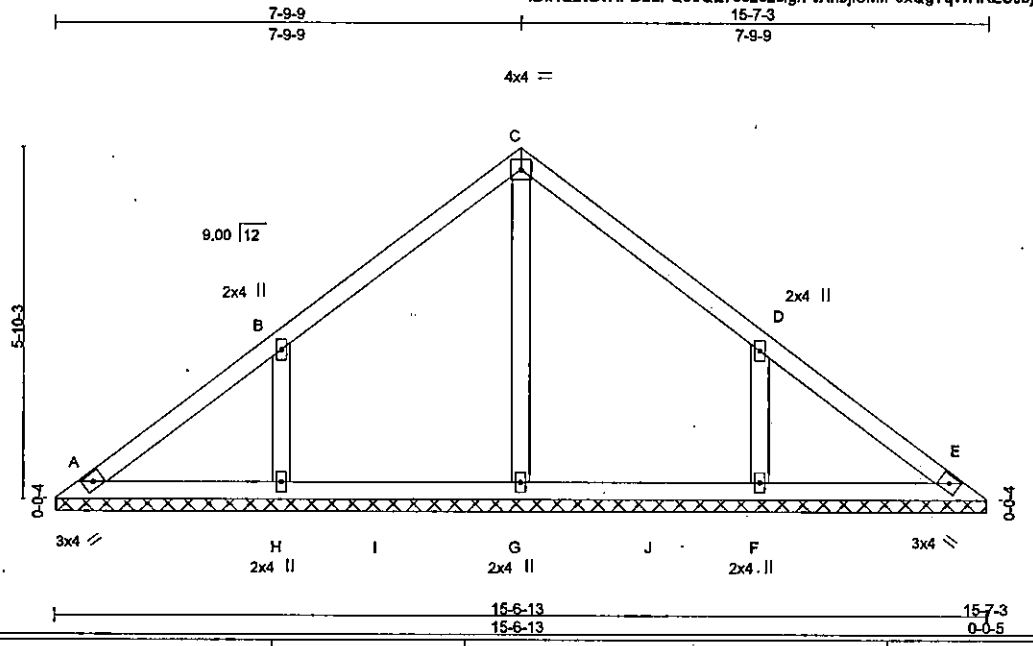


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(TL)	0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 65 lb	FT = 20%

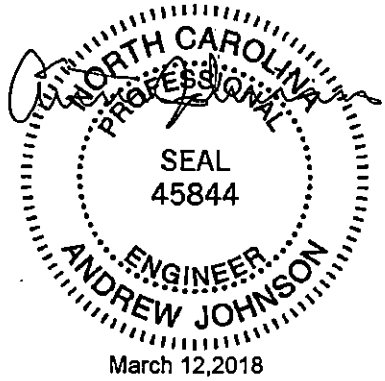
LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 15-6-8.
(lb) - Max Horz A=191(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) A, E except H=-271(LC 10), F=-271(LC 11)
Max Grav All reactions 250 lb or less at joint(s) A, E except G=354(LC 17), H=419(LC 17), F=419(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-370/312, D-F=-370/311

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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 (jt=lb) H=271, F=271.



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Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668655
1800518-1800518A	V3	Valley	1	1	Job Reference (optional)	

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8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:44 2018 Page 1
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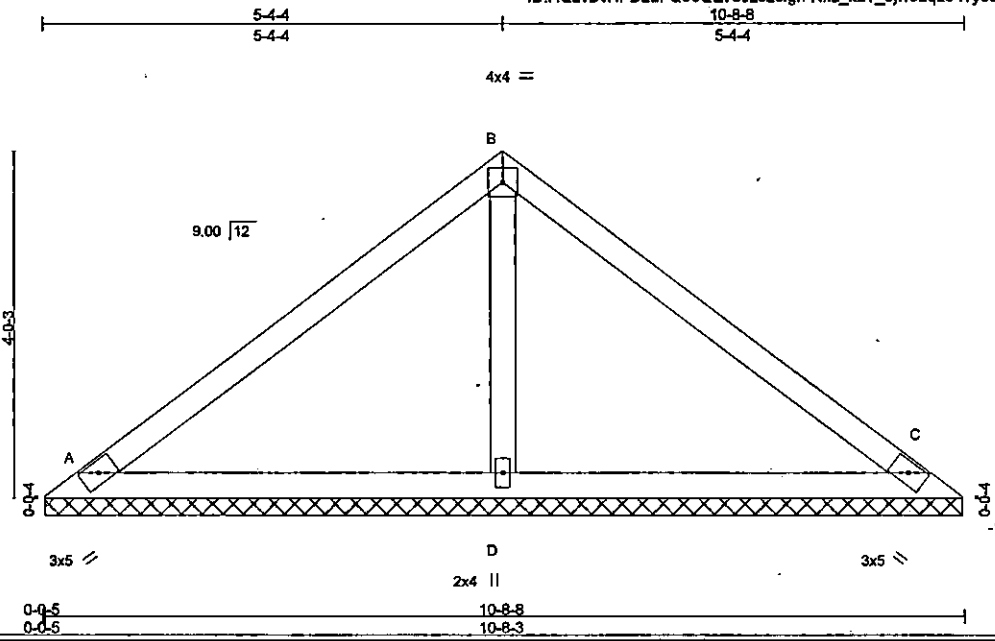


LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.56	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.41	Vert(TL) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(TL) 0.00 C n/a n/a	
BCDL 10.0	Code IRC2012/TPI2007	Matrix-S		Weight: 39 lb FT = 20%

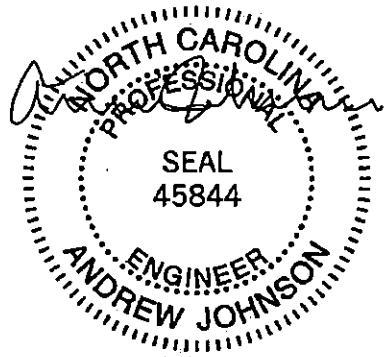
LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

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=199/10-7-13, C=199/10-7-13, D=389/10-7-13
Max Horz A=-128(LC 6)
Max Uplift A=-71(LC 10), C=-88(LC 11), D=-66(LC 10)
Max Grav A=199(LC 1), C=200(LC 18), D=389(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) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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.



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Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668656
1800518-1800518A	V4	Valley	1	1	Job Reference (optional)	

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8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:45 2018 Page 1
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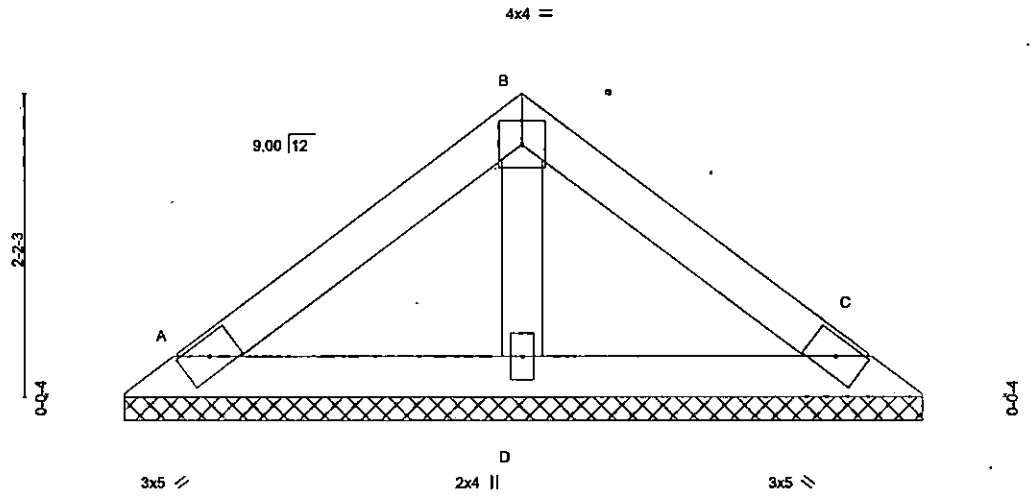
2-10-15 / 2-10-15 | 5-9-13 / 2-10-15

Scale: 3/4"=1'



0-0-5 / 0-0-5 | 5-9-13 / 5-9-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-P							Weight: 20 lb	FT = 20%

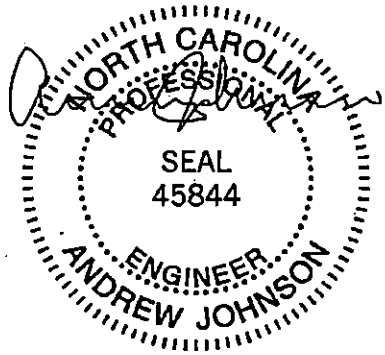
LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=109/5-9-3, C=109/5-9-3, D=177/5-9-3
Max Horz A=64(LC 7)
Max Uplift A=-45(LC 10), C=-53(LC 11), D=-15(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) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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.



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Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668657
1800518-1800518A	V5	Valley	1	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:46 2018 Page 1
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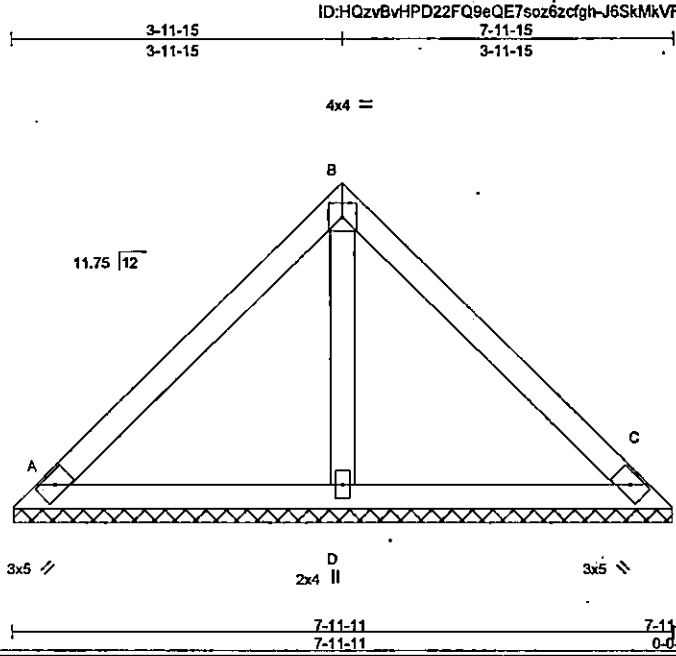


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-P							Weight: 32 lb	FT = 20%

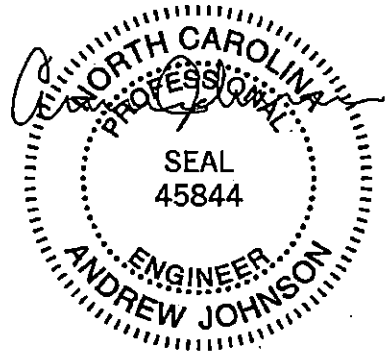
LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

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=173/7-11-6, C=173/7-11-6, D=236/7-11-6
Max Horz A=124(LC 7)
Max Uplift A=-77(LC 11), C=-79(LC 11), D=-7(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) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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.



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Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668658
1800518-1800518A	V6	Valley	1	1	Job Reference (optional)	

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8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:46 2018, Page 1
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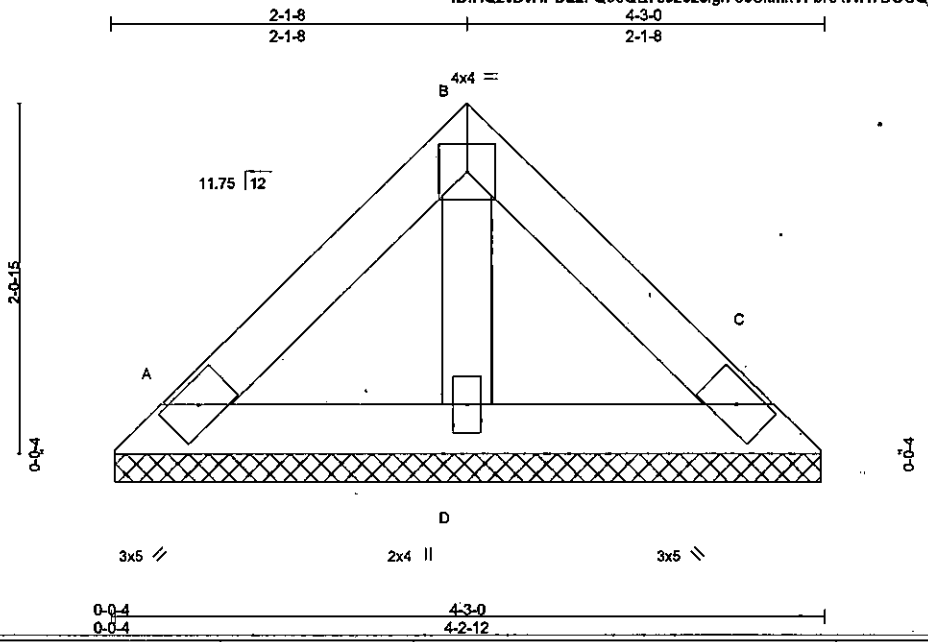


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(TL)	0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-P							Weight: 16 lb	FT = 20%

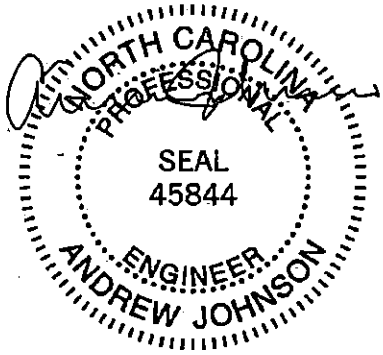
LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=84/4-2-7, C=84/4-2-7, D=115/4-2-7
Max Horz A=-60(LC 8)
Max Uplift A=-37(LC 11), C=-38(LC 11), D=-4(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) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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.



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Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668659
1800518-1800518A	V7	Valley	1	1	Job Reference (optional)	

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8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:47 2018 Page 1
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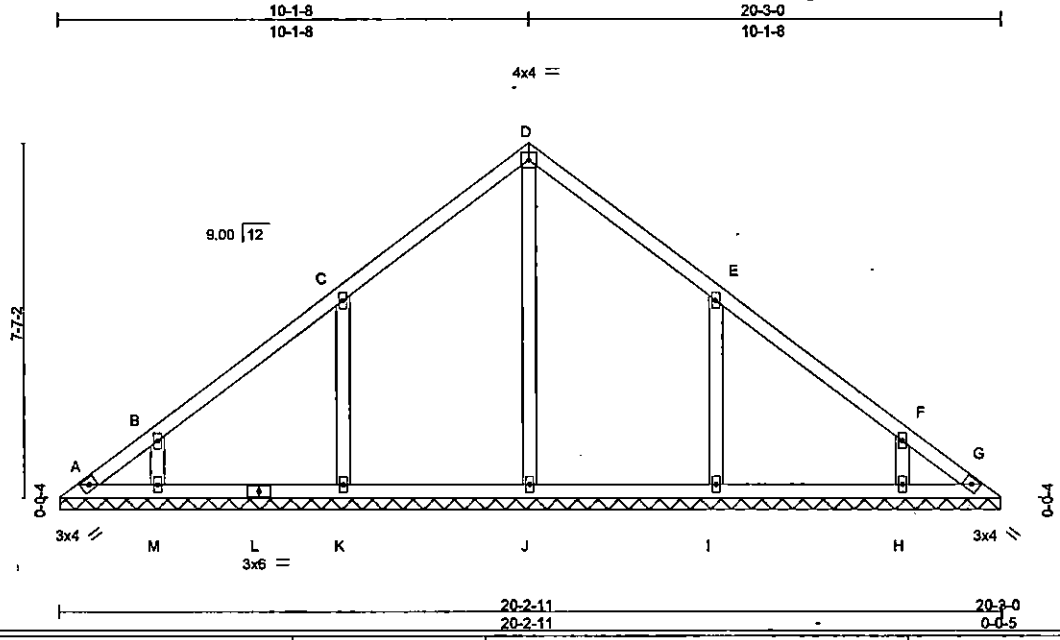


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(TL)	0.01	G	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 92 lb	FT = 20%

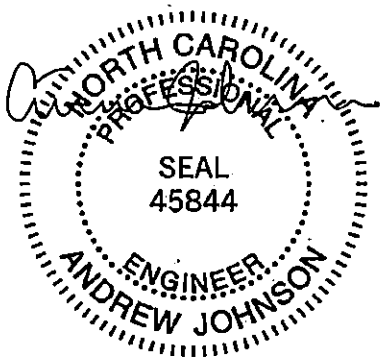
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 20-2-5.
(lb) - Max Horz A=252(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) A, G except K=-272(LC 10), M=-196(LC 10), I=-272(LC 11), H=-196(LC 11)
Max Grav All reactions 250 lb or less at joint(s) A, G except J=401(LC 20), K=466(LC 17), M=292(LC 17), I=466(LC 18), H=292(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-270/202
WEBS C-K=-376/322, B-M=-283/237, E-I=-376/321, F-H=-283/237

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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 2x4 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 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 100 lb uplift at joint(s) A, G except (jt=lb) K=272, M=196, I=272, H=196.



March 12,2018

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668660
1800518-1800518A	V8	Valley	1	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:48 2018 Page 1
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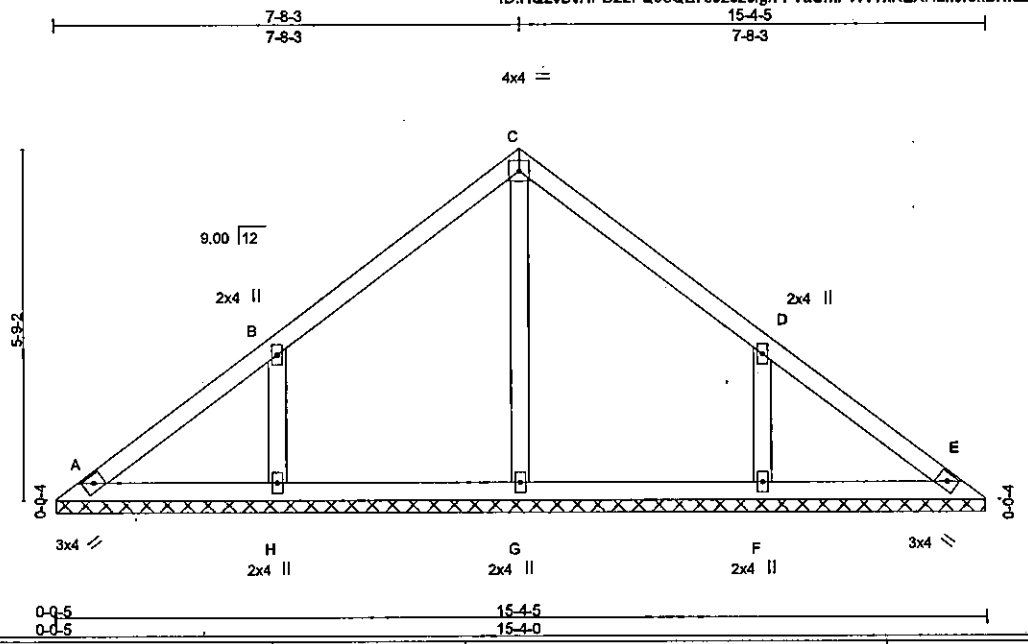


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(TL)	0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 64 lb	FT = 20%

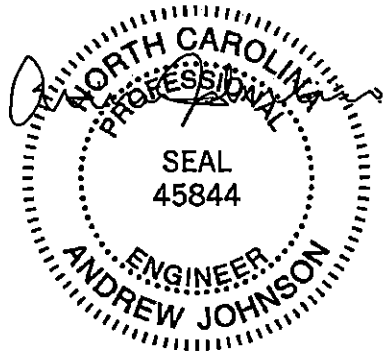
LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 15-3-11.
(lb) - Max Horz A=-188(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) A, E except H=-267(LC 10), F=-267(LC 11)
Max Grav All reactions 250 lb or less at joint(s) A, E, G except H=398(LC 17), F=398(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-365/307, D-F=-365/307

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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=267, F=267.



March 12,2018

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668661
1800518-1800518A	V9	Valley	1	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:49 2018 Page 1
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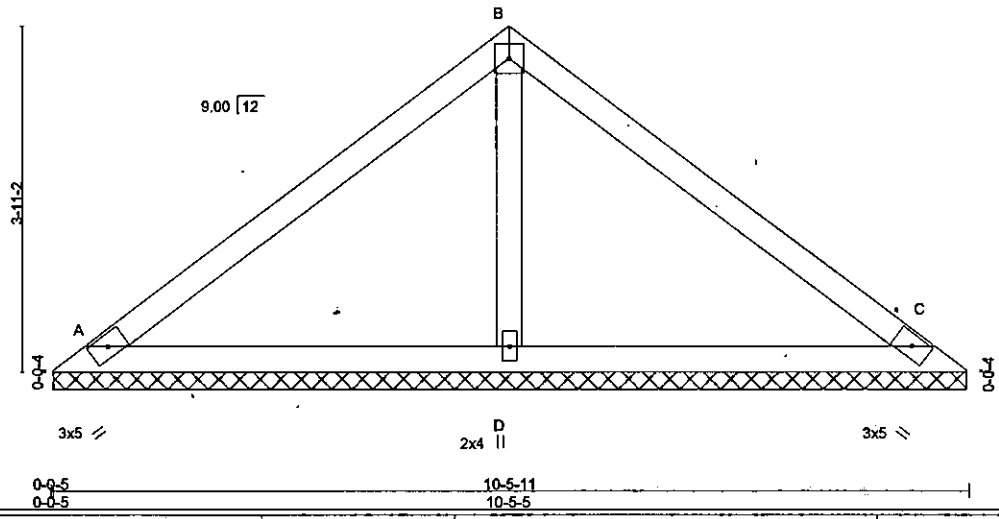
5-2-13 / 5-2-13 | 10-5-11 / 5-2-13

Scale = 1:25.3



0-0-5 / 0-0-5 | 10-5-11 / 10-5-5

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-S							Weight: 38 lb	FT = 20%

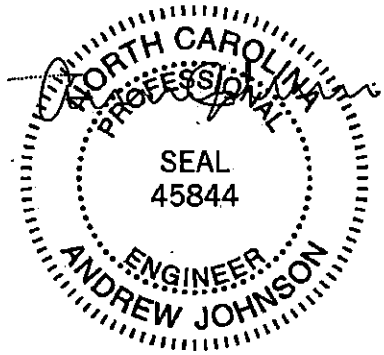
LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

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=194/10-5-0, C=194/10-5-0, D=379/10-5-0
Max Horz A=125(LC 7)
Max Uplift A=-69(LC 10), C=-86(LC 11), D=-64(LC 10)
Max Grav A=194(LC 1), C=196(LC 18), D=379(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) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; 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.



March 12,2018

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Huntington A Wellons	I32668662
1800518-1800518A	V10	Valley	1	1	Job Reference (optional)	

84 Components, Dunn, NC 28334

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Mar 9 14:58:42 2018 Page 1
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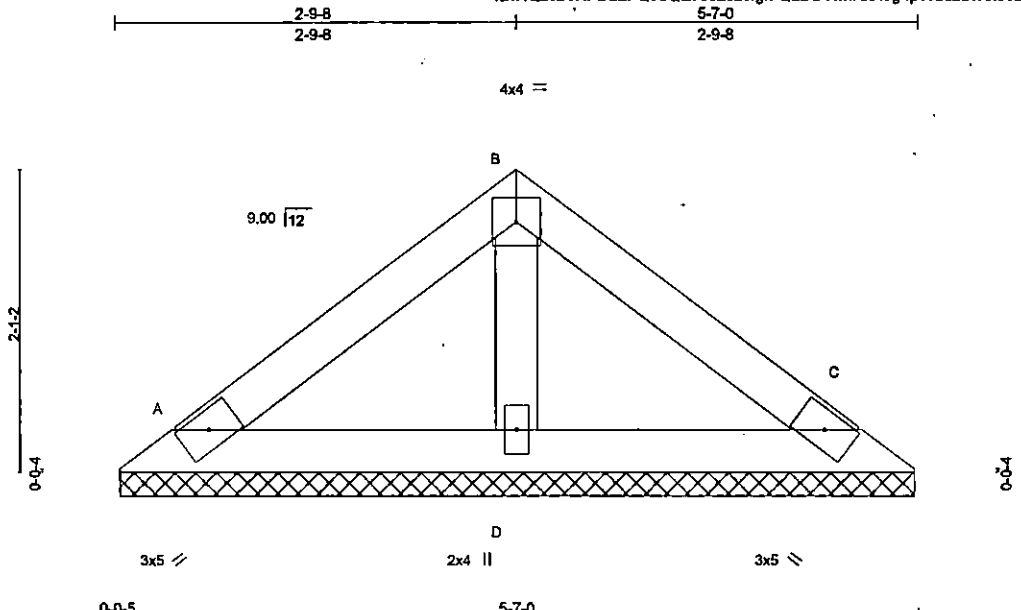


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-P							Weight: 19 lb	FT = 20%

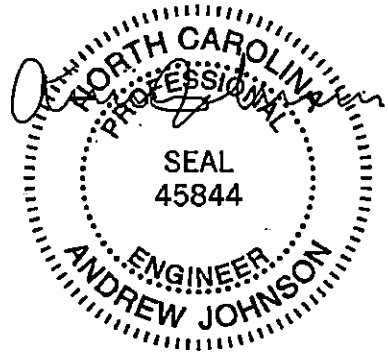
LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS. (lb/size) A=104/5-6-5, C=104/5-6-5, D=169/5-6-5
Max Horz A=-61(LC 6)
Max Uplift A=-43(LC 10), C=-51(LC 11), D=-14(LC 10)

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

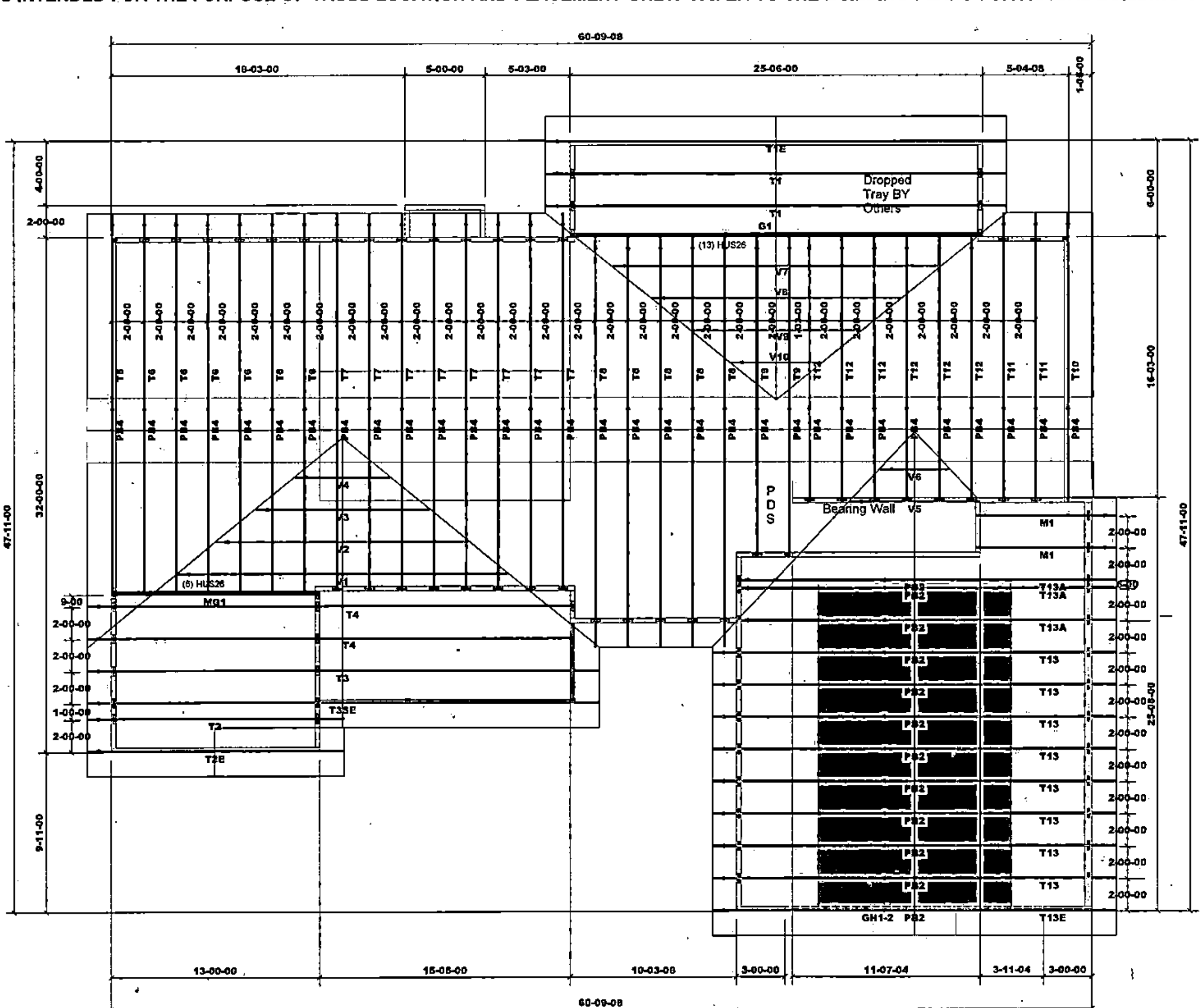
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp C; enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical 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.



March 12,2018

ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY. REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.



1st Level Roof Area	2nd Level Roof Area
3370.9	0

Products				
PlotID	Length	Product	Plies	Net Qty
GH1-2	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

84 LUMBER COMPONENTS

DEDICATED TO QUALITY AND EXCELLENCE
200 EMMETT ROAD
DUNN, NORTH CAROLINA 28334
PHONE: 910-892-8400

PROJECT: Planters Glen Huntington A

CUSTOMER: Wellon Homes

MODEL: Huntington A

QUOTE #: 19444

PRINT DATE: 11/20/2018

DRAWN BY: Rodney Evans

SCALE: N.T.S

TOP LIVE LOAD: 20.0 lb/ft²

TOP DEAD LOAD: 10.0 lb/ft²

BOTTOM DEAD LOAD: 10.0 lb/ft²

WIND SPEED: 130 mph

GENERAL NOTES:

- DO NOT CUT OR MODIFY TRUSSES
- TRUSSES ARE SPACED 24" ON CENTER UNLESS OTHERWISE NOTED
- REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY CONNECTION REQUIREMENTS.
- PER ANSI TPI 1-2002 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLACEMENT PLAN RECOMMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.

84 LUMBER COMPONENTS

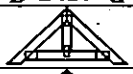
JOB NAME Planters Glen Huntington A
SUBDIVISION Planters Glen
BUILDER
MODEL Huntington A
SHIP TO Planters Glen
Dunn ? NC

TRANSACTION # 19444
STATUS Order
DEL DATE 7/4/2019
SALES REP Tony Stanley
CONTACT

SOLD TO Wellon Homes

84 Lumber Company • 200 Emmett Rd • Dunn • NC • 28334 • Phone: (910) 892-8400 • Fax: (910) 892-8343

Component Item - Roof Trusses

DIAGRAM	QTY / PLY	PITCH	LABEL	(Shipping) HEIGHT	Base Span SPAN	LUMBER	OVERHANG LEFT	OVERHANG RIGHT	CANTILEVER LEFT	CANTILEVER RIGHT	STUB LEFT	STUB RIGHT
	1 2-ply	9/12	G1	10-01-14	25-06-00	2 x 6			-	-	-	-
	2	11.75/12	M1	(9-02-04) 9-00-03	7-02-12	2 x 6 2 x 4	1-06-00		-	-	-	-
	1 2-ply	9/12	MG1	10-04-02	13-00-00	2 x 6			-	-	-	-
	12	11.75/12	PB2	(2-06-00) 2-04-08	5-01-04	2 x 4			-	3-11-11	-	-
	31	11/12	PB4	(1-10-00) 1-08-08	4-00-00	2 x 4			-	2-09-13	-	-
	2	9/12	T1	(11-03-02) 10-01-14	25-06-00	2 x 6 2 x 4	1-06-00	1-06-00	-	-	-	-
	1	9/12	T1E	(11-03-02) 10-01-14	25-06-00	2 x 6 2 x 4	1-06-00	1-06-00	-	-	-	-
	1	9/12	T2	(6-06-14) 5-05-10	13-00-00	2 x 6 2 x 4	1-06-00	1-06-00	-	-	-	-
	1	9/12	T2E	(6-06-14) 5-05-10	13-00-00	2 x 6 2 x 4	1-06-00	1-06-00	-	-	-	-
	1	9/12	T3	(12-05-15) 11-04-11	28-09-08	2 x 6 2 x 4	1-06-00	1-06-00	-	-	-	-
	1	9/12	T3SE	(12-05-15) 11-04-11	28-09-08	2 x 6 2 x 4	1-06-00	1-06-00	-	-	-	-
	2	9/12	T4	(12-05-15) 11-04-11	28-09-08	2 x 6 2 x 4	1-06-00		-	-	-	-
	1	11/12	T5	(11-01-15) 10-00-02	22-00-00	2 x 6 2 x 4	1-06-00		-	-	-	-
	6	11/12	T6	(11-01-15) 10-00-02	22-00-00	2 x 6 2 x 4	1-06-00		-	-	-	-
	8	11/12 6/12	T7	(11-01-15) 10-00-02	22-00-00	2 x 6 2 x 4	1-06-00		-	-	-	-
	5	11/12	T8	(11-01-15) 10-00-02	24-00-00	2 x 6 2 x 4		1-06-00	-	-	-	-
	2	11/12	T9	10-00-02	19-11-00	2 x 6 2 x 4			-	-	-	-
	1	11/12	T10	(11-01-15) 10-00-02	16-06-08	2 x 6 2 x 4	1-06-00		-	-	-	-
	2	11/12	T11	(11-01-15) 10-00-02	16-06-08	2 x 6 2 x 4	1-06-00		-	-	-	-
	6	11/12	T12	10-00-02	16-06-08	2 x 6 2 x 4			-	-	-	-
	8	11.75/12	T13	(10-04-09) 10-02-08	22-00-00	2 x 6 2 x 10	1-06-00	1-06-00	-	-	-	-
	3	11.75/12	T13A	(10-04-09) 10-02-08	22-00-00	2 x 6 2 x 10		1-06-00	-	-	-	-

84 LUMBER COMPONENTS

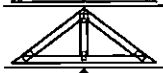
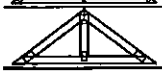
JOB NAME Planters Glen Huntington A
SUBDIVISION Planters Glen
BUILDER
MODEL Huntington A
SHIP TO Planters Glen
Dunn ? NC

TRANSACTION # 19444
STATUS Order
DEL DATE 7/4/2019
SALES REP Tony Stanley
CONTACT

SOLD TO Wellon Homes

84 Lumber Company • 200 Emmett Rd • Dunn • NC • 28334 • Phone: (910) 892-8400 • Fax: (910) 892-8343

Component Item - Roof Trusses

DIAGRAM	QTY PLY	PITCH	LABEL	(Shipping) HEIGHT	Base Span SPAN	LUMBER	OVERHANG LEFT	OVERHANG RIGHT	CANTILEVER LEFT	CANTILEVER RIGHT	STUB LEFT	STUB RIGHT
	1	11.75 /12	T13E	(10-04-09) 10-02-08	22-00-00	2 x 6 2 x 10	1-06-00	1-06-00	-	-	-	-
	1	9 /12	V1	7-08-03	20-05-13	2 x 4			-	-	-	-
	1	9 /12	V2	5-10-03	15-07-03	2 x 4			-	-	-	-
	1	9 /12	V3	4-00-03	10-08-08	2 x 4			-	-	-	-
	1	9 /12	V4	2-02-03	5-09-13	2 x 4			-	-	-	-
	1	11.75 /12	V5	3-10-15	7-11-15	2 x 4			-	-	-	-
	1	11.75 /12	V6	2-00-15	4-03-00	2 x 4			-	-	-	-
	1	9 /12	V7	7-07-02	20-03-00	2 x 4			-	-	-	-
	1	9 /12	V8	5-09-02	15-04-05	2 x 4			-	-	-	-
	1	9 /12	V9	3-11-02	10-05-11	2 x 4			-	-	-	-
	1	9 /12	V10	2-01-02	5-07-00	2 x 4			-	-	-	-
	111				1475.13							

Ancillary Items

QTY	Label	Description	Length
2	GH1-2	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	22-00-00
19	HUS26	HUS26	

Grand Total	$7,522.10

Please review the delivery date, directions, pricing and all order details for accuracy

Thank you for the order. P.O.# :

Rodney Evans

Notes

Tax and Delivery Included

* IMPORTANT NOTE *

84 LUMBER COMPONENTS

SOLD TO Wellon Homes

JOB NAME Planters Glen Huntington A
SUBDIVISION Planters Glen
BUILDER
MODEL Huntington A
SHIP TO Planters Glen

Dunn ? NC

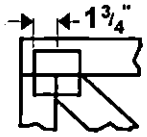
TRANSACTION # 19444
STATUS Order
DEL DATE 7/4/2019
SALES REP Tony Stanley
CONTACT

84 Lumber Company • 200 Emmett Rd • Dunn • NC • 28334 • Phone: (910) 892-8400 • Fax: (910) 892-8343

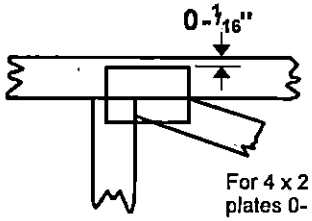
THIS PROPOSAL IS BASED ON LUMBER DESIGN VALUES IN EFFECT AT THE TIME OF THE QUOTE. IN THE EVENT ANY LUMBER DESIGN VALUES CHANGE BEFORE THE COMPLETION OF THE PROJECT, 84 LUMBER COMPANY RESERVES THE RIGHT TO MODIFY THE PRICE ACCORDINGLY.

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

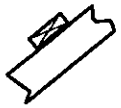
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

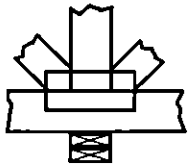
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

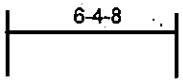


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

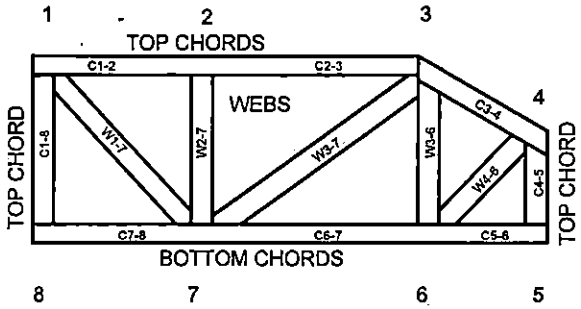
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek®

ENGINEERING BY TRENCO
A MiTek Affiliate

⚠ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.