

Trenco  
818 Soundside Rd  
Edenton, NC 27932

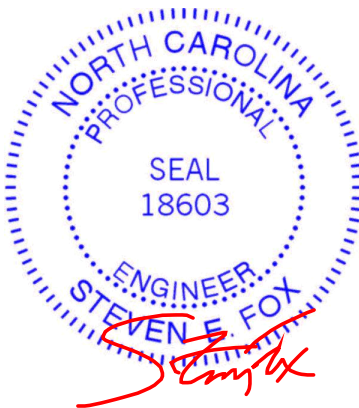
Re: COMAS\_JOB

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: I37516079 thru I37516133

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



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June 21, 2019

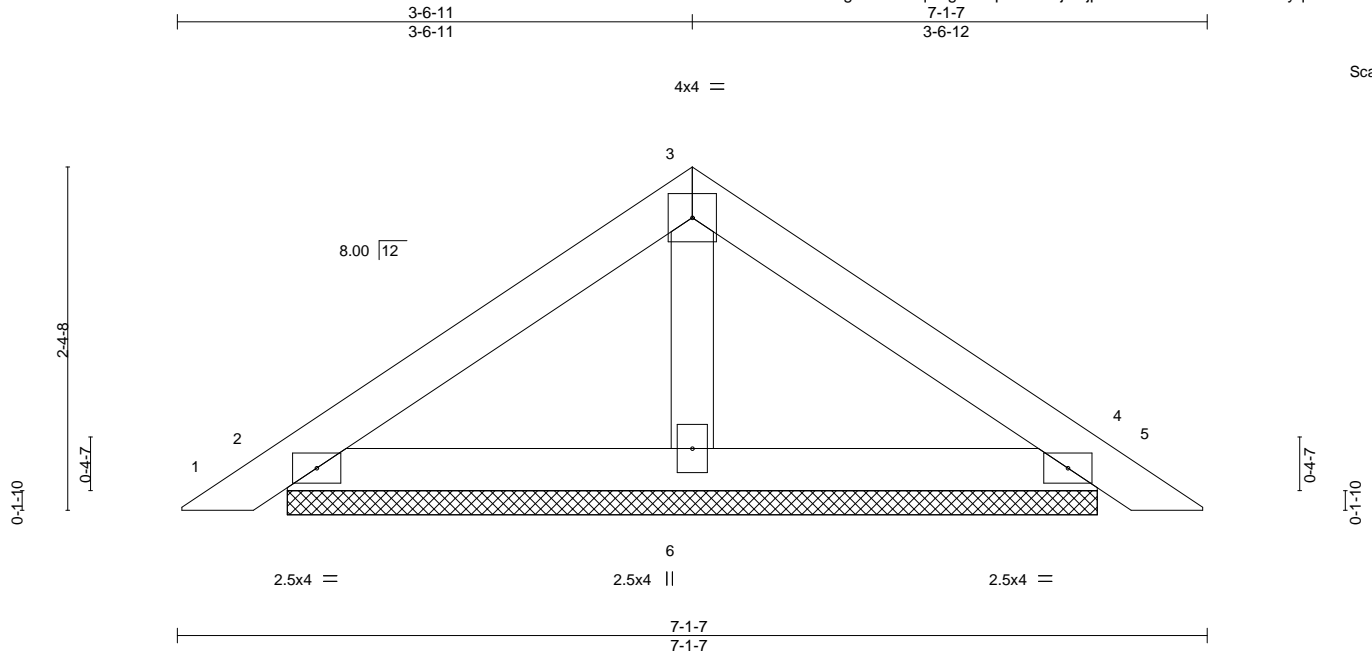
Fox, Steve

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	137516079
COMAS_JOB	ACP	Piggyback	3	1	

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:09 2019 Page 1  
 ID:Gbs5d2EBwvghhszRMqhXgz5S1p-2no2lojeOjpiB6YuL90i19GaJAQZh?Lyqhf6Wvz4MQO



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) -0.00 5 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(TL) 0.00 4 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 4 n/a n/a		
	Code IBC2012/TPI2007			Weight: 18 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 OTHERS 2x4 SPF Stud

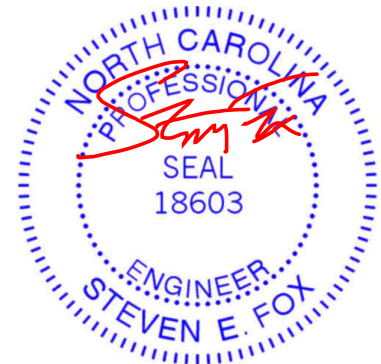
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=153/5-7-3, 4=153/5-7-3, 6=199/5-7-3  
 Max Horz 2=42(LC 9)  
 Max Uplift 2=-30(LC 10), 4=-36(LC 11)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



June 21, 2019

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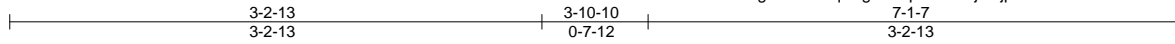
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516080
COMAS_JOB	BCP	Piggyback	1	1	

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:09 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-2no2lojeOjpiB6YuL90i19Gb6AQah?Lyqhf6Wvz4MQO



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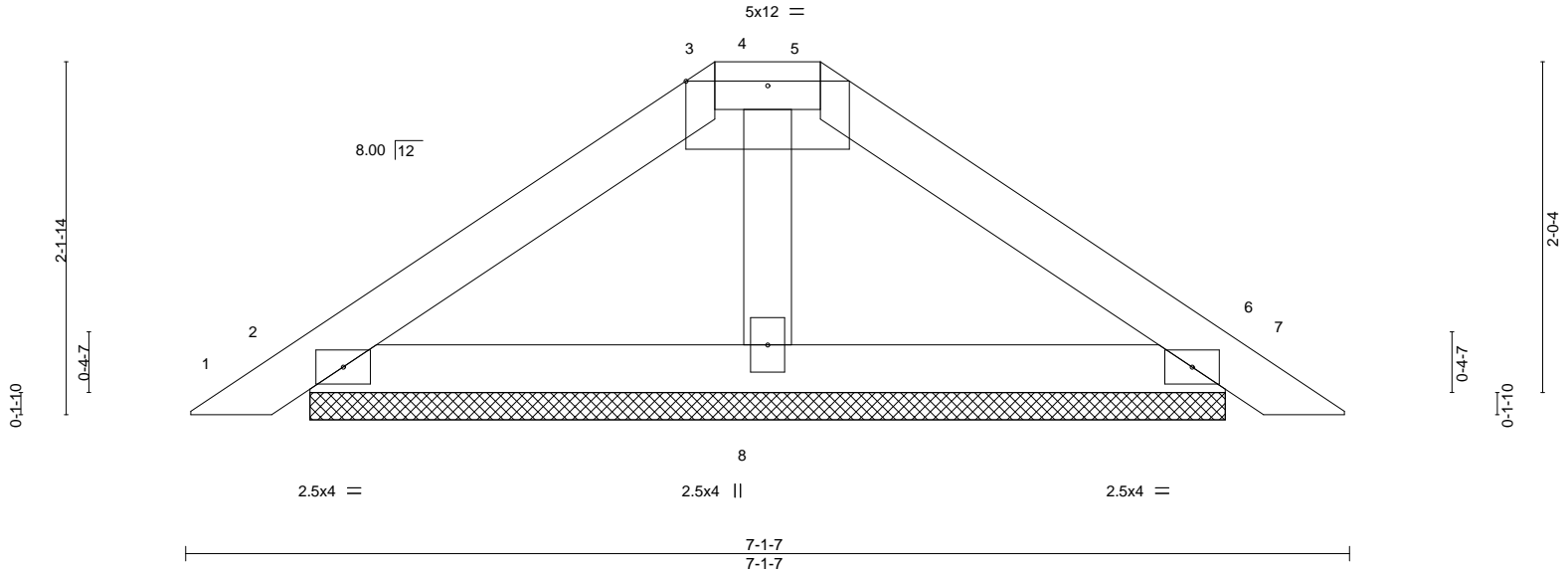


Plate Offsets (X,Y)-- [3:0-0-0,0-1-12], [3:0-6-0,0-0-5], [5:0-0-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.06 BC 0.07 WB 0.03 Matrix-S	Vert(LL) -0.00 Vert(TL) 0.00 Horz(TL) 0.00	6 6 6	n/r n/r n/a	120 90 n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr YES							
BCLL 0.0 *	Code IBC2012/TPI2007							
BCDL 10.0							Weight: 18 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 OTHERS 2x4 SPF Stud

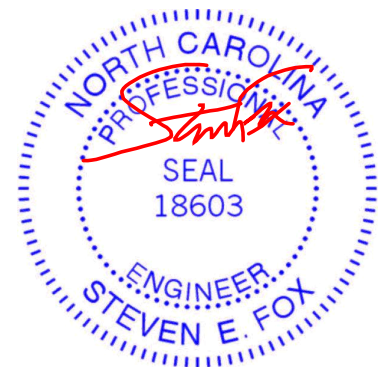
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 3-5.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=149/5-7-3, 6=149/5-7-3, 8=209/5-7-3  
 Max Horz 2=39(LC 9)  
 Max Uplift 2=-27(LC 10), 6=-32(LC 11)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

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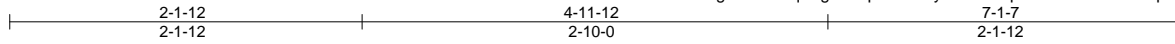
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516081
COMAS_JOB	CCP	Piggyback	1	1	

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:10 2019 Page 1

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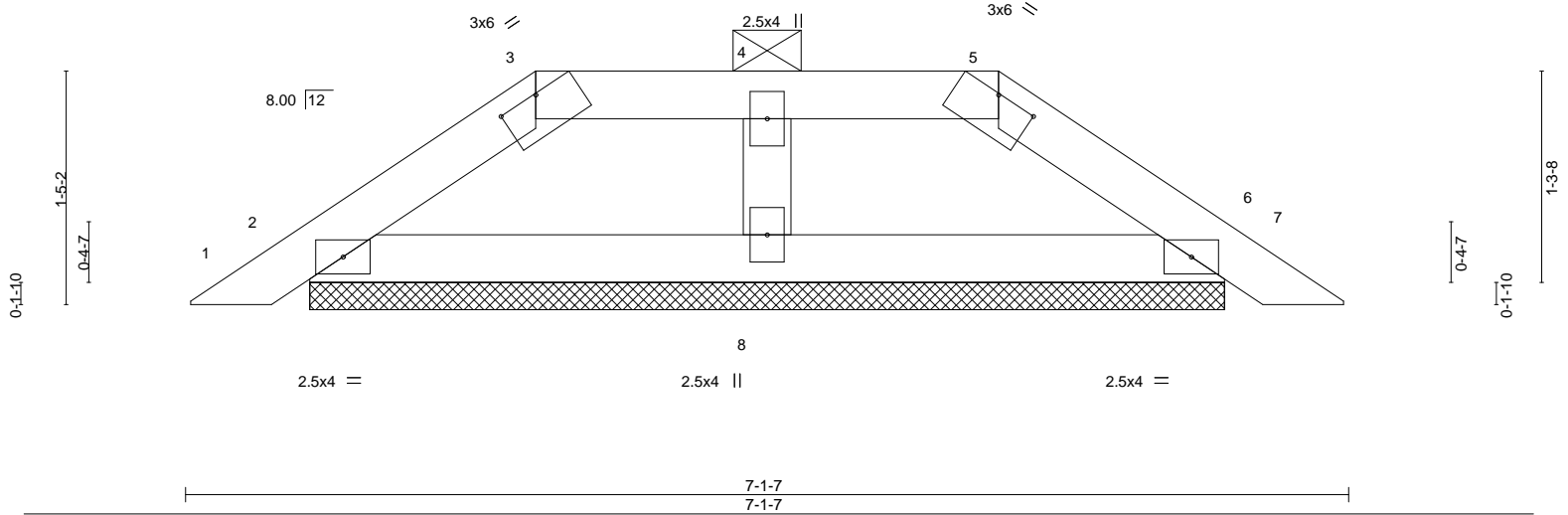


Plate Offsets (X,Y)-- [3:0-3-0,0-0-2], [5:0-3-0,0-0-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.04 BC 0.07 WB 0.03 Matrix-S	Vert(LL) -0.00 Vert(TL) 0.00 Horz(TL) 0.00	6 6 6	n/r n/r n/a	120 90 n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr YES							
BCLL 0.0 *	Code IBC2012/TPI2007							
BCDL 10.0							Weight: 16 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 OTHERS 2x4 SPF Stud

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 3-5.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=160/5-7-3, 6=160/5-7-3, 8=185/5-7-3  
 Max Horz 2=-25(LC 8)  
 Max Uplift 2=-25(LC 10), 6=-26(LC 11), 8=-2(LC 7)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 8.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516082
COMAS_JOB	GD3	Hip Girder	1	1	Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:12 2019 Page 1

ID:Gbs5d2EBwvvlhhszRMqhXgz5S1p-TMTANqIXheBG2ZHTOHZPfoxLNL4uBgPWfum7Ez4MQL

0-10-8	3-11-15	7-4-0	11-8-12	16-3-4	20-8-0	24-0-1	28-0-0	28-10-8
0-10-8	3-11-15	3-4-1	4-4-12	4-6-8	4-4-12	3-4-1	3-11-15	0-10-8

Scale: 1/4"=1'

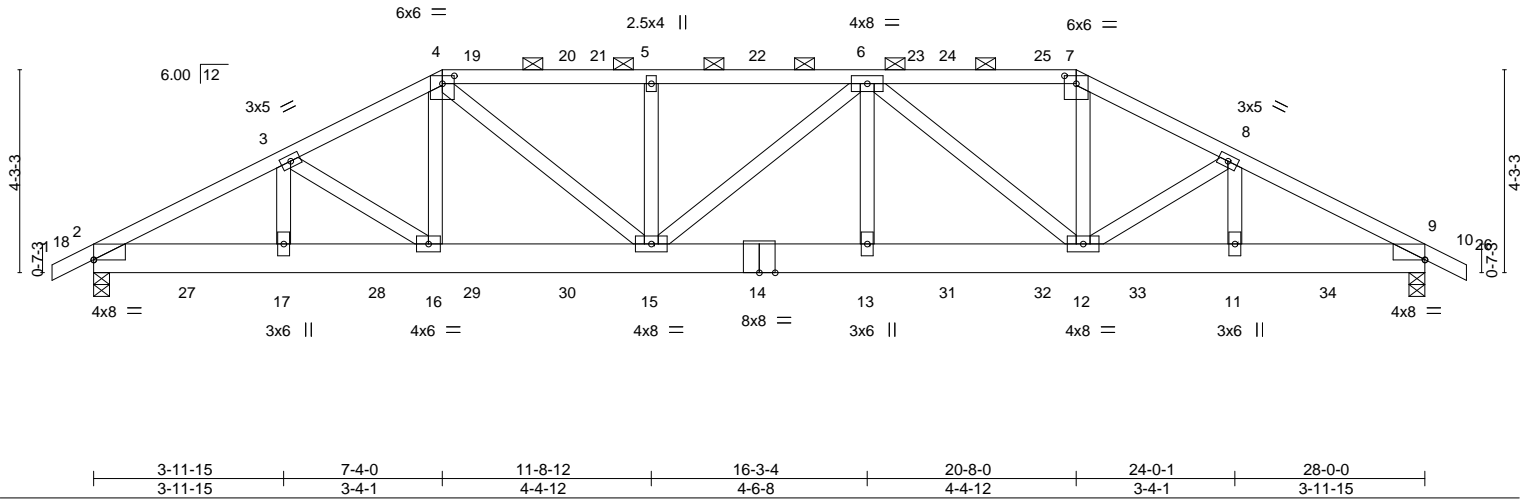


Plate Offsets (X,Y)-- [2:0-0,0,0-0-1], [4:0-3,0,0-2-0], [7:0-3,0,0-2-0], [9:0-0,0,0-0-1]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.70 BC 0.46 WB 0.76 Matrix-S	in (loc) l/defl L/d Vert(LL) -0.16 13-15 >999 240 Vert(TL) -0.34 13-15 >979 180 Horz(TL) 0.07 9 n/a n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr NO				
BCLL 0.0 *	Code IBC2012/TPI2007				
BCDL 10.0				Weight: 168 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SPF No.2  
BOT CHORD 2x8 SP No.1  
WEBS 2x4 SPF Stud

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except 2-0-0 oc purlins (2-7-15 max.): 4-7.  
BOT CHORD Rigid ceiling directly applied or 9-8-1 oc bracing.

**REACTIONS.** (lb/size) 2=1776/0-4-0, 9=1776/0-4-0  
Max Horz 2=54(LC 52)  
Max Uplift 2=465(LC 10), 9=465(LC 11)  
Max Grav 2=1997(LC 29), 9=1997(LC 29)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-3241/811, 3-4=-3089/800, 4-5=-3495/915, 5-6=-3494/915, 6-7=-2690/718, 7-8=-3068/794, 8-9=-3245/813  
BOT CHORD 2-17=-714/2777, 16-17=-714/2777, 15-16=-682/2733, 13-15=-872/3529, 12-13=-872/3529, 11-12=-663/2781, 9-11=-663/2781  
WEBS 3-16=-341/111, 4-16=-139/594, 4-15=-290/1007, 5-15=-466/133, 6-13=-66/298, 6-12=-1096/316, 7-12=-273/1101, 8-12=-361/107

**NOTES-**

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=465, 9=465.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 54 lb down and 35 lb up at 8-0-0, 56 lb down and 35 lb up at 10-0-0, 56 lb down and 35 lb up at 12-0-0, 56 lb down and 35 lb up at 14-0-0, 56 lb down and 35 lb up at 16-0-0, and 56 lb down and 35 lb up at 18-0-0, and 54 lb down and 35 lb up at 20-0-0 on top chord, and 123 lb down and 46 lb up at 2-0-0, 120 lb down and 53 lb up at 4-0-0, 120 lb down and 65 lb up at 6-0-0, 76 lb down and 60 lb up at 8-0-0, 76 lb down and 60 lb up at 10-0-0, 76 lb down and 60 lb up at 12-0-0, 76 lb down and 60 lb up at 14-0-0, 76 lb down and 60 lb up at 16-0-0, 76 lb down and 60 lb up at 18-0-0, 76 lb down and 60 lb up at 20-0-0, 120 lb down and 65 lb up at 22-0-0, and 120 lb down and 53 lb up at 24-0-0, and 123 lb down and 46 lb up at 26-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



June 21, 2019

On the CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	
COMAS_JOB	GD3	Hip Girder	1	1	I37516082
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:12 2019 Page 2  
 ID:Gbs5d2EBwvghhszRMqhXgz5S1p-TMTANqIXheBG2ZHT0HZPfouxLNL4uBgPWfum7Ez4MQL

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 7-10=-60, 2-9=-20

Concentrated Loads (lb)

Vert: 14=-69(F) 17=-120(F) 15=-69(F) 13=-69(F) 11=-120(F) 27=-123(F) 28=-120(F) 29=-69(F) 30=-69(F) 31=-69(F) 32=-69(F) 33=-120(F) 34=-123(F)

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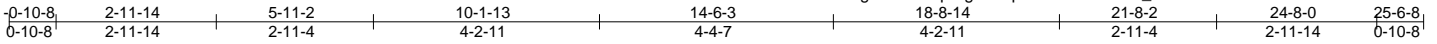
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516083
COMAS_JOB	GD4	Hip Girder	1	1	
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:14 2019 Page 1

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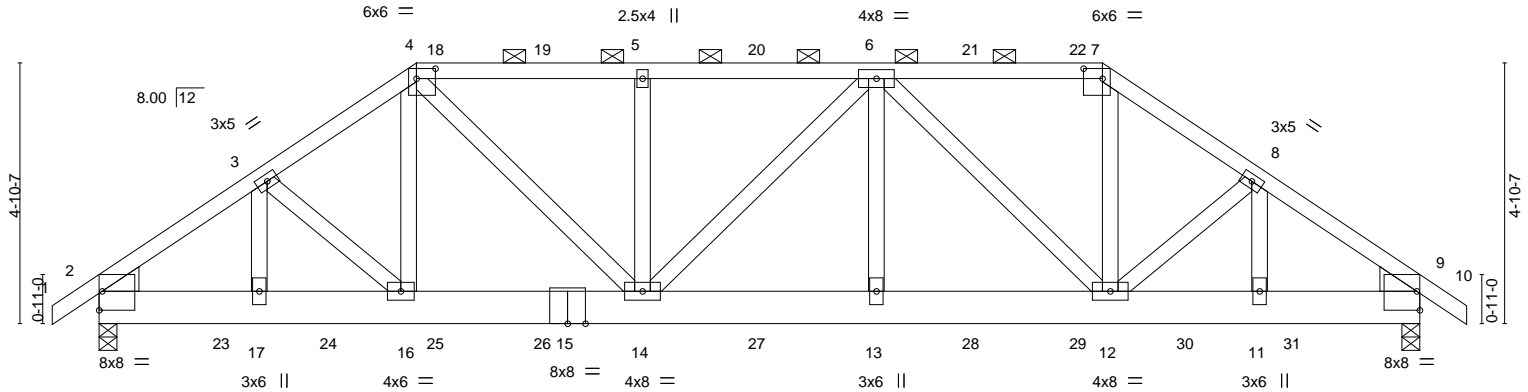


Plate Offsets (X,Y)--	[2:0-0-5,0-0-4], [2:0-4-3,0-0-7], [2:Edge,0-4-4], [4:0-4-4,0-2-4], [7:0-4-4,0-2-4], [9:0-0-5,0-0-4], [9:0-4-3,0-0-7], [9:Edge,0-4-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.49	Vert(LL) 0.07 13-14 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Vert(TL) -0.15 13-14 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(TL) 0.04 9 n/a n/a		
	Code IBC2012/TPI2007			Weight: 162 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x8 SP No.1  
 WEBS 2x4 SPF Stud  
 WEDGE  
 Left: 2x6 SPF 1650F 1.5E, Right: 2x6 SPF 1650F 1.5E

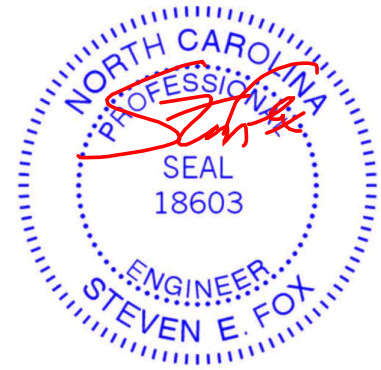
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-11-5 oc purlins, except  
 2-0-0 oc purlins (3-10-12 max.): 4-7.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=1628/0-4-0, 9=1628/0-4-0  
 Max Horz 2=88(LC 7)  
 Max Uplift 2=-475(LC 8), 9=-475(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2137/644, 3-4=-1988/659, 4-5=-2089/719, 5-6=-2089/719, 6-7=-1578/558,  
 7-8=-1981/655, 8-9=-2138/646  
 BOT CHORD 2-17=-522/1578, 16-17=-522/1578, 14-16=-550/1600, 13-14=-712/2098, 12-13=-712/2098,  
 11-12=-443/1578, 9-11=-443/1578  
 WEBS 4-16=-117/355, 4-14=-309/706, 5-14=-262/138, 6-13=-79/306, 6-12=-739/325,  
 7-12=-276/864

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCDL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=475, 9=475.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 40 lb up at 6-4-0, 60 lb down and 40 lb up at 8-4-0, 60 lb down and 40 lb up at 10-4-0, 60 lb down and 40 lb up at 12-4-0, 60 lb down and 40 lb up at 14-4-0, and 60 lb down and 40 lb up at 16-4-0, and 56 lb down and 40 lb up at 18-4-0 on top chord, and 143 lb down and 66 lb up at 2-4-0, 143 lb down and 69 lb up at 4-4-0, 93 lb down and 68 lb up at 6-4-0, 93 lb down and 68 lb up at 8-4-0, 93 lb down and 68 lb up at 10-4-0, 93 lb down and 68 lb up at 12-4-0, 93 lb down and 68 lb up at 14-4-0, 93 lb down and 68 lb up at 16-4-0, 93 lb down and 68 lb up at 18-4-0, and 143 lb down and 69 lb up at 20-4-0, and 143 lb down and 66 lb up at 22-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



June 21, 2019

Continued on page 2

**LOAD CASE(S)** Standard

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	
COMAS_JOB	GD4	Hip Girder	1	1	I37516083
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:14 2019 Page 2  
 ID:Gbs5d2EBwvghhszRMqhXgz5S1p-PkboxWnnCFR\_HtQs8ibtKDzLzB19M8JizzNtB7z4MQJ

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 7-10=-60, 2-9=-20

Concentrated Loads (lb)

Vert: 14=-87(B) 5=-1(B) 13=-87(B) 6=-1(B) 18=-1(B) 19=-1(B) 20=-1(B) 21=-1(B) 22=-1(B) 23=-143(B) 24=-143(B) 25=-87(B) 26=-87(B) 27=-87(B) 28=-87(B)  
 29=-87(B) 30=-143(B) 31=-143(B)

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818 Soundside Road  
 Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	137516084
COMAS_JOB	J3	Jack-Partial	7	1	Job Reference (optional)

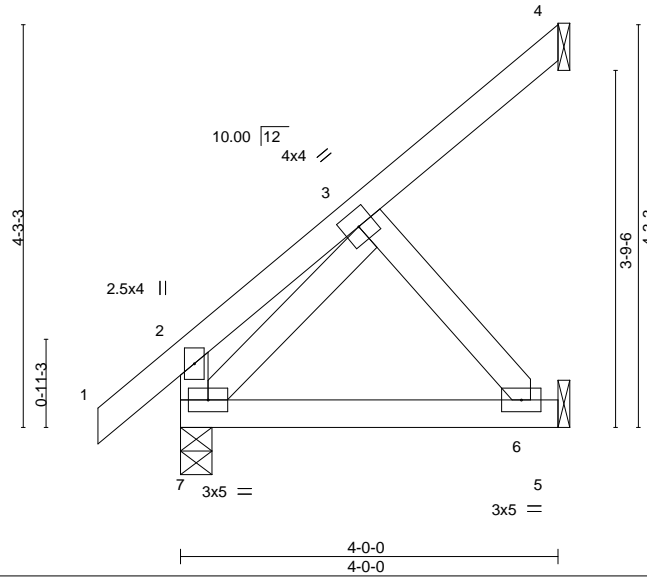
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:14 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-PkboxWnnCFR\_HtQs8ibtKdZQAB6TMGYizzNtB7z4MQJ



Scale = 1:24.4



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.15	Vert(LL) -0.01 6-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(TL) -0.03 6-7 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) -0.00 4 n/a n/a		
	Code IBC2012/TP12007			Weight: 18 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF Stud

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

**REACTIONS.** (lb/size) 7=221/0-4-0, 4=54/Mechanical, 5=89/Mechanical  
 Max Horz 7=110(LC 10)  
 Max Uplift 4=-36(LC 10), 5=-40(LC 10)  
 Max Grav 7=221(LC 1), 4=57(LC 18), 5=101(LC 18)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 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) 4, 5.



June 21, 2019

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

Job	Truss	Truss Type	Qty	Ply	137516085
COMAS_JOB	J3A	Jack-Open	2	1	
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:15 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-tx9J?snPzZZrv1?2iP76HQWbKbUX5jHrCc6QkZz4MQI



Scale = 1:10.7

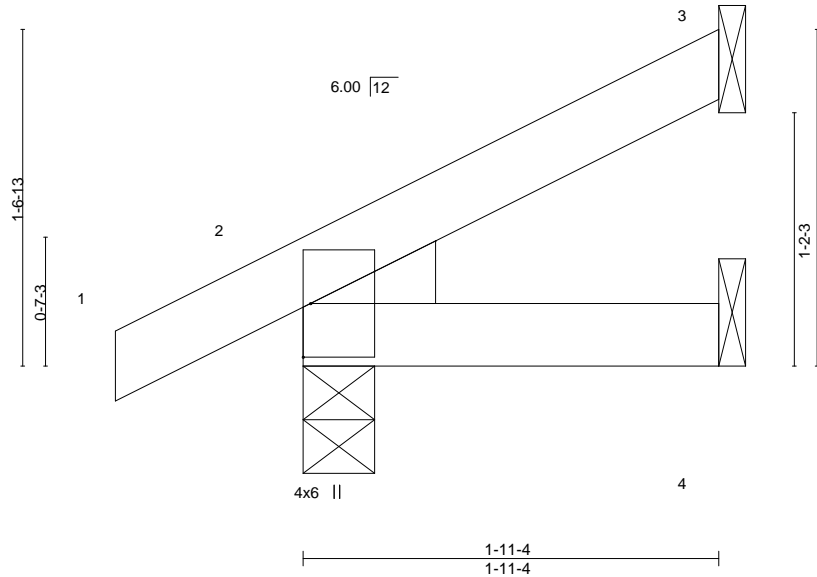


Plate Offsets (X,Y)-- [2:0-0-2,0-0-3], [2:0-0-3,0-5-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	TC 0.08	Vert(LL) -0.00	2	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL) -0.00	2-4	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	3	n/a	n/a		
BCDL 10.0	Code IBC2012/TPI2007	Matrix-P					Weight: 7 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEDGE  
 Left: 2x4 SPF Stud

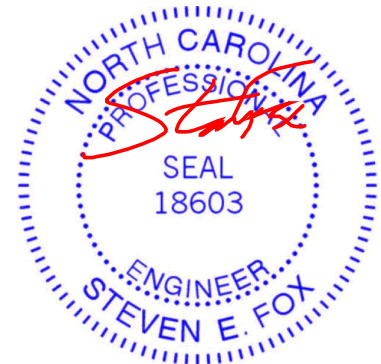
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 1-11-4 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 3=44/Mechanical, 2=143/0-4-0, 4=19/Mechanical  
 Max Horz 2=42(LC 12)  
 Max Uplift 3=-29(LC 12), 2=-17(LC 12)  
 Max Grav 3=44(LC 1), 2=150(LC 18), 4=38(LC 5)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



June 21, 2019

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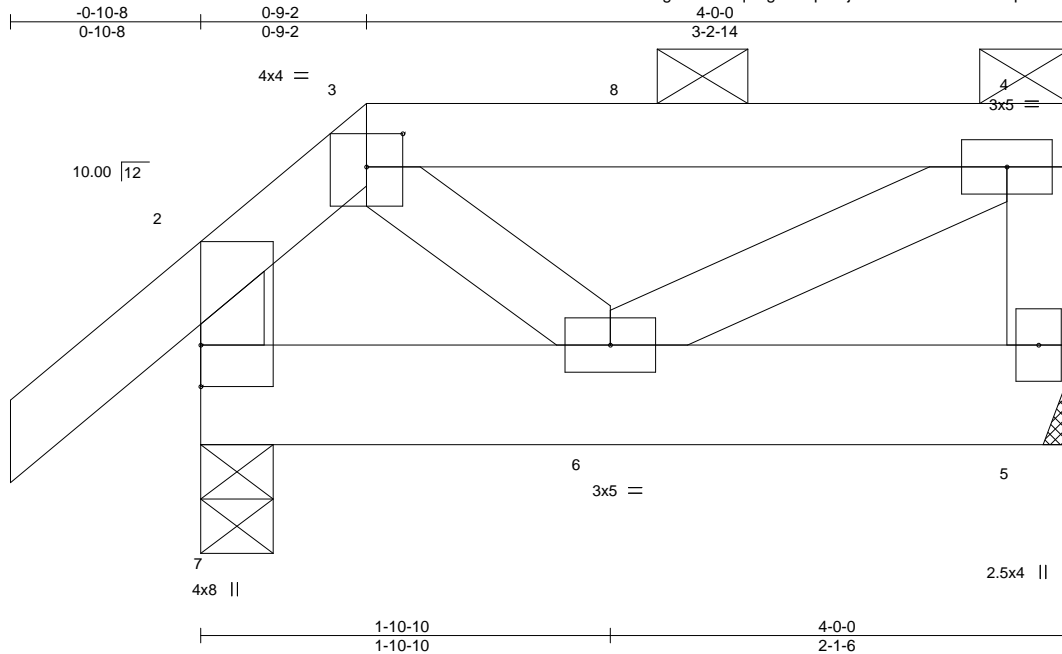
Job	Truss	Truss Type	Qty	Ply	137516086
COMAS_JOB	J3B	Half Hip Girder	2	1	

84 Components (Dunn),

Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:16 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-L7jhDCo1kshiXBaEF7eLpe2mQ?pvqA9\_RGszG0z4MQH



Scale = 1:10.6

Plate Offsets (X,Y)-- [2:0-1-7,0-1-12], [3:0-2-0,0-1-13], [7:0-0-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 2-0-0 Lumber DOL 1.15	TC 0.12 BC 0.02 WB 0.02 Matrix-S	Vert(LL) -0.00 Vert(TL) -0.00 Horz(TL) 0.00	6 6 5	>999 >999 n/a	240 180 n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr NO						Weight: 19 lb	FT = 20%
BCLL 0.0 *	Code IBC2012/TPI2007							
BCDL 10.0								

**LUMBER-**

TOP CHORD 2x4 SPF No.2  
BOT CHORD 2x6 SPF 1650F 1.5E  
WEBS 2x4 SPF Stud

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=140/Mechanical, 7=218/0-4-0  
Max Horz 7=46(LC 5)  
Max Uplift 5=-26(LC 5), 7=-29(LC 8)  
Max Grav 5=143(LC 20), 7=218(LC 1)

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

**NOTES-**

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 16 lb down and 27 lb up at 2-0-12 on top chord, and 7 lb down at 2-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20



June 21, 2019

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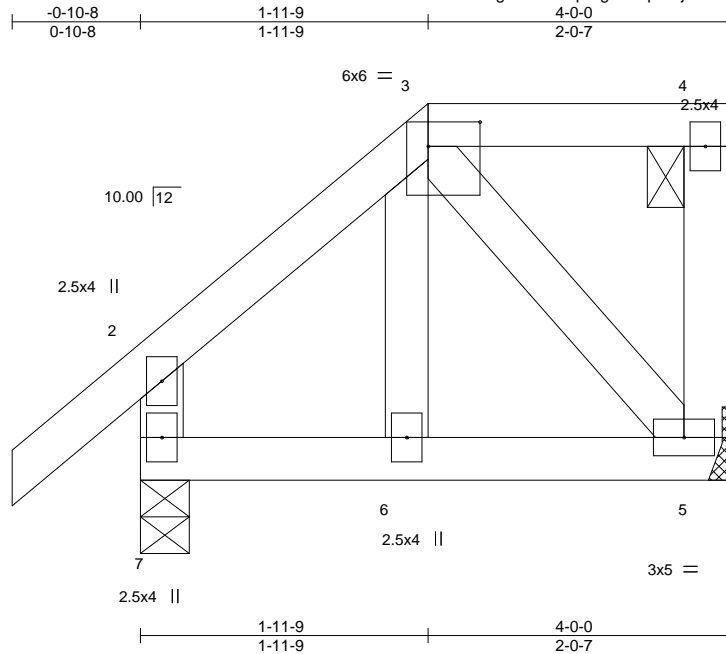
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516087
COMAS_JOB	J3C	Half Hip	2	1	

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:16 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-L7jhDCo1kshIXBaEF7eLpe2mf?pQqA7\_RGszG0z4MQH



Scale = 1:15.7

Plate Offsets (X,Y)-- [3:0-4-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.11 BC 0.05 WB 0.03 Matrix-S	Vert(LL) -0.00 Vert(TL) -0.00 Horz(TL) 0.00	6 6 5	>999 >999 n/a	240 180 n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr YES							
BCLL 0.0 *	Code IBC2012/TPI2007							
BCDL 10.0							Weight: 19 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF Stud

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=140/Mechanical, 7=218/0-4-0  
 Max Horz 7=78(LC 7)  
 Max Uplift 5=-33(LC 7), 7=-23(LC 10)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCCL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

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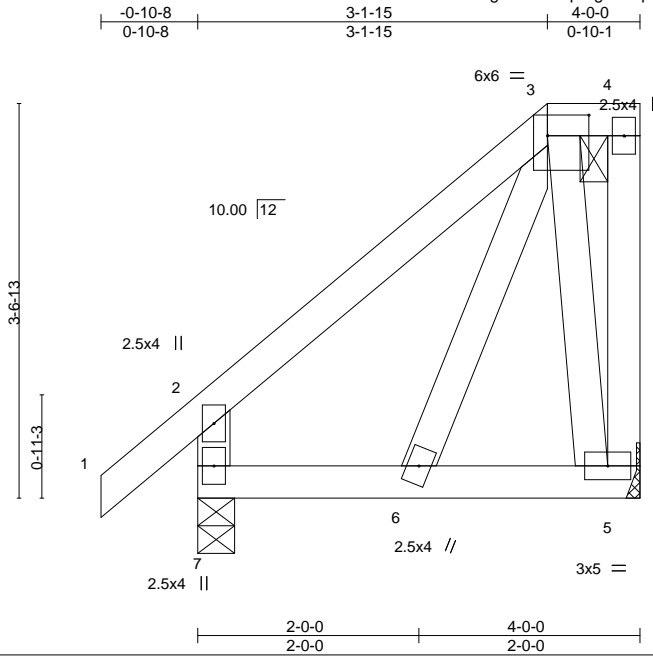
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516088
COMAS_JOB	J3D	Half Hip	2	1	

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:17 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-pJH3QXpfVApZ8L9Qpq9aMrbxPO9kZdA8fwbXoSz4MQG



Scale = 1:20.8

Plate Offsets (X,Y)-- [3:0-4-8,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -0.00	6	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(TL) -0.00	6	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(TL) -0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2012/TPI2007	Matrix-S						
							Weight: 23 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF Stud

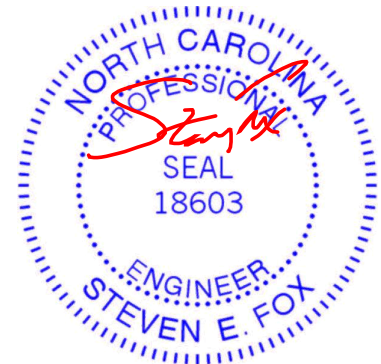
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=140/Mechanical, 7=218/0-4-0  
 Max Horz 7=107(LC 7)  
 Max Uplift 5=-45(LC 7), 7=-16(LC 10)  
 Max Grav 5=143(LC 18), 7=218(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516089
COMAS_JOB	J4	Jack-Partial	7	1	Job Reference (optional)

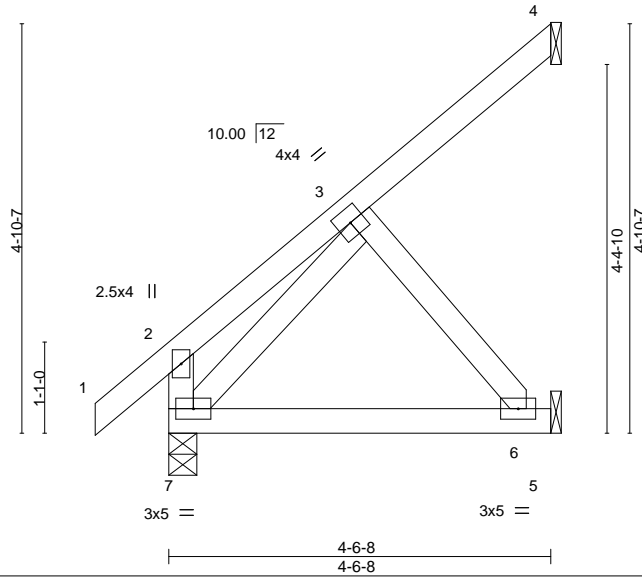
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:17 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-pJH3QXpfVApZ8L9Qpq9aMrbxPO6PZd88fwbXoSz4MQG



Scale = 1:27.4



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(LL) -0.02 6-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(TL) -0.05 6-7 >950 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 4 n/a n/a		
	Code IBC2012/TPI2007			Weight: 21 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF Stud

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 7=242/0-4-0, 4=60/Mechanical, 5=107/Mechanical  
 Max Horz 7=122(LC 10)  
 Max Uplift 4=40(LC 10), 5=48(LC 10)  
 Max Grav 7=242(LC 1), 4=63(LC 18), 5=120(LC 18)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 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) 4, 5.



June 21, 2019

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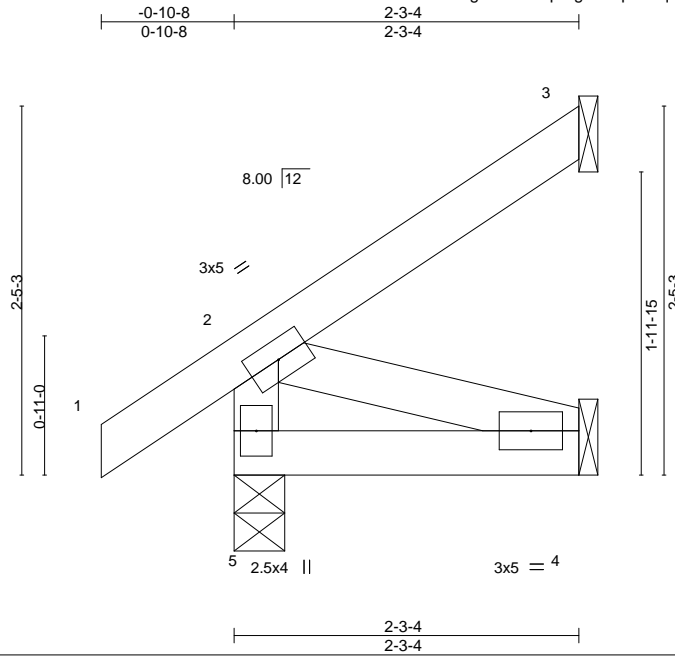
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516090
COMAS_JOB	J4A	Jack-Open	2	1	Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:18 2019 Page 1

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Scale = 1:15.2

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 4-5 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(TL) -0.00 4-5 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) -0.00 3 n/a n/a		
	Code IBC2012/TP12007			Weight: 10 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SPF No.2  
BOT CHORD 2x4 SPF No.2  
WEBS 2x4 SPF Stud

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-3-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=160/0-4-0, 3=47/Mechanical, 4=21/Mechanical  
Max Horz 5=52(LC 10)  
Max Uplift 5=-3(LC 10), 3=-29(LC 10), 4=-5(LC 10)  
Max Grav 5=169(LC 16), 3=49(LC 18), 4=42(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 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) 5, 3, 4.



June 21, 2019

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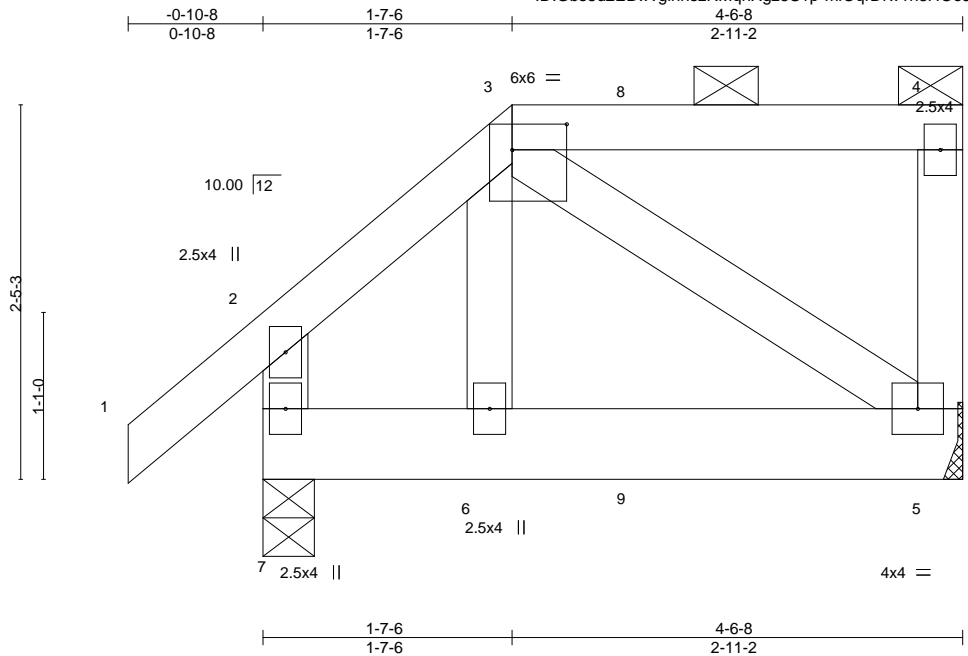
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516091
COMAS_JOB	J4B	Half Hip Girder	2	1	

84 Components (Dunn), Dunn, NC - 28334,

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Scale = 1:15.0

Plate Offsets (X,Y)-- [3:0-4-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	TC 0.13	Vert(LL)	-0.00	6	>999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL)	-0.00	5-6	>999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Horz(TL)	0.00	5	n/a		
BCDL 10.0	Code IBC2012/TPI2007	Matrix-S						
							Weight: 23 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x6 SPF 1650F 1.5E  
 WEBS 2x4 SPF Stud

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=163/Mechanical, 7=239/0-4-0  
 Max Horz 7=71(LC 5)  
 Max Uplift 5=-46(LC 5), 7=-38(LC 8)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 27 lb up at 2-5-12 on top chord, and 18 lb down and 18 lb up at 2-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20  
 Concentrated Loads (lb)  
 Vert: 9=-1(B)



June 21, 2019

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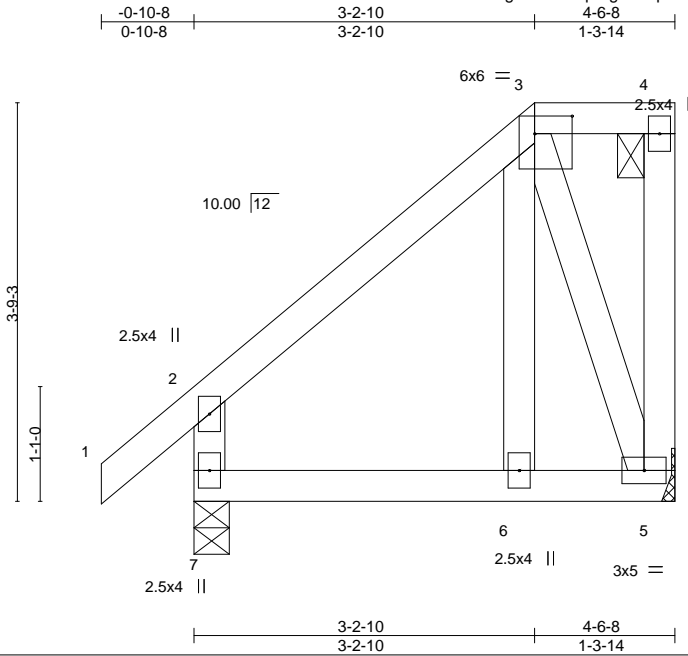


Job	Truss	Truss Type	Qty	Ply	137516092
COMAS_JOB	J4C	Half Hip	2	1	

84 Components (Dunn), Dunn, NC - 28334,

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Scale = 1:21.8

Plate Offsets (X,Y)-- [3:0-4-4,0-2-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2012/TPI2007	TC 0.11 BC 0.05 WB 0.05 Matrix-S	in (loc) l/def L/d Vert(LL) -0.00 6-7 >999 240 Vert(TL) -0.01 6-7 >999 180 Horz(TL) 0.00 5 n/a n/a	MT20	197/144
TCDL 10.0					
BCLL 0.0 *					
BCDL 10.0				Weight: 25 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SPF No.2  
BOT CHORD 2x4 SPF No.2  
WEBS 2x4 SPF Stud

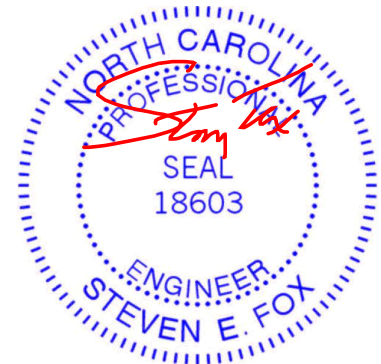
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=163/Mechanical, 7=239/0-4-0  
Max Horz 7=113(LC 7)  
Max Uplift 5=-49(LC 7), 7=-18(LC 10)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
COMAS_JOB	J5A	Jack-Open	3	1	

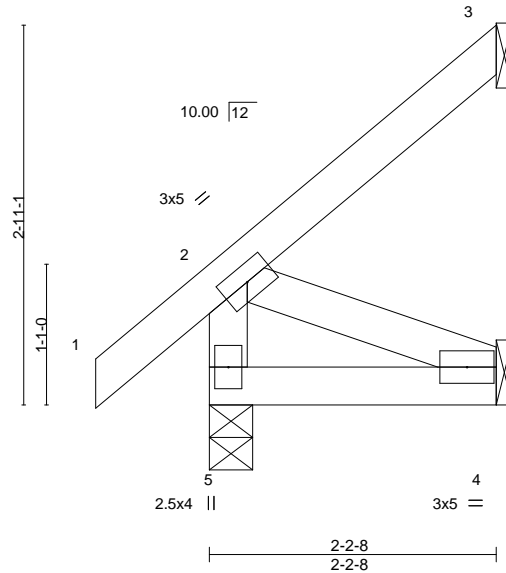
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:20 2019 Page 1

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Scale = 1:17.7



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.11	Vert(LL) -0.00	4-5	>999	240	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(TL) -0.00	4-5	>999	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(TL) -0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 10 lb	FT = 20%
	Code IBC2012/TPI2007							

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF Stud

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-2-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=158/0-4-0, 3=44/Mechanical, 4=21/Mechanical  
 Max Horz 5=63(LC 10)  
 Max Uplift 3=-34(LC 10), 4=-16(LC 10)  
 Max Grav 5=169(LC 16), 3=49(LC 18), 4=41(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 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) 3, 4.



June 21, 2019

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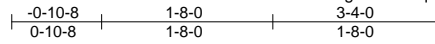
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516094
COMAS_JOB	J8	Jack-Partial	16	1	Job Reference (optional)

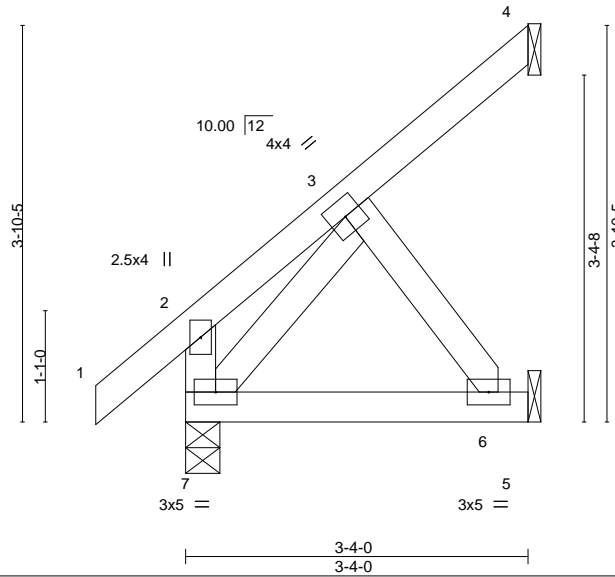
84 Components (Dunn), Dunn, NC - 28334,

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ID:Gbs5d2EBwvghhszRMqhXgz5S1p-i4WaGvsAZPJ?dyTC2gEWWHldP0WwVQJJaYZkxDz4MQC



Scale = 1:22.4



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) -0.01 6-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(TL) -0.01 6-7 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) -0.00 4 n/a n/a	Weight: 16 lb	FT = 20%
	Code IBC2012/TP12007				

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF Stud

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) 7=196/0-4-0, 4=47/Mechanical, 5=68/Mechanical  
 Max Horz 7=92(LC 10)  
 Max Uplift 4=-30(LC 10), 5=-39(LC 10)  
 Max Grav 7=196(LC 1), 4=49(LC 18), 5=81(LC 18)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 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) 4, 5.



June 21, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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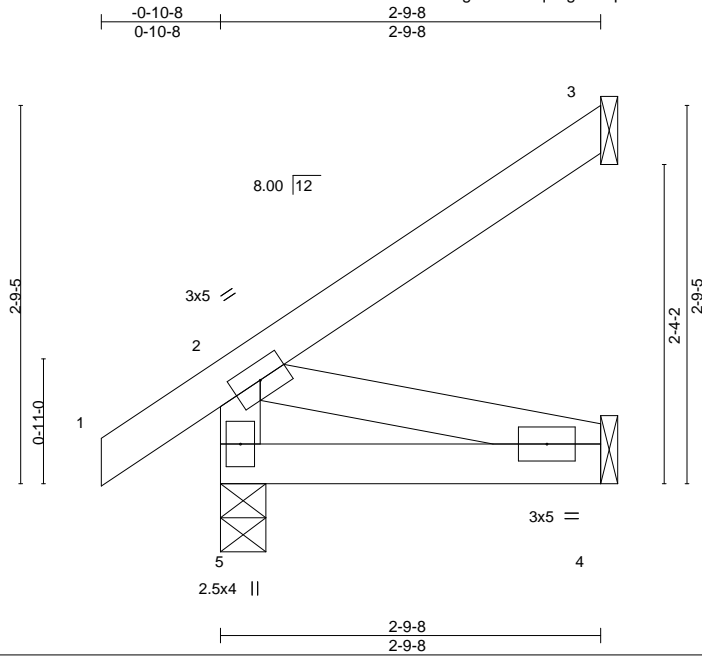
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516095
COMAS_JOB	J8A	Jack-Open	1	1	Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

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ID:Gbs5d2EBwvghhszRMqhXgz5S1p-i4WaGvsAZPJ?dyTC2gEWWhldR0WPVQGjaYZkxDz4MQC



Scale = 1:16.9

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) -0.00 4-5 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(TL) -0.01 4-5 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) -0.00 3 n/a n/a		
	Code IBC2012/TP12007			Weight: 12 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SPF No.2  
BOT CHORD 2x4 SPF No.2  
WEBS 2x4 SPF Stud

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-9-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=177/0-4-0, 3=65/Mechanical, 4=26/Mechanical  
Max Horz 5=62(LC 10)  
Max Uplift 5=-1(LC 10), 3=-40(LC 10), 4=-1(LC 10)  
Max Grav 5=177(LC 1), 3=68(LC 18), 4=53(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 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) 5, 3, 4.



June 21, 2019

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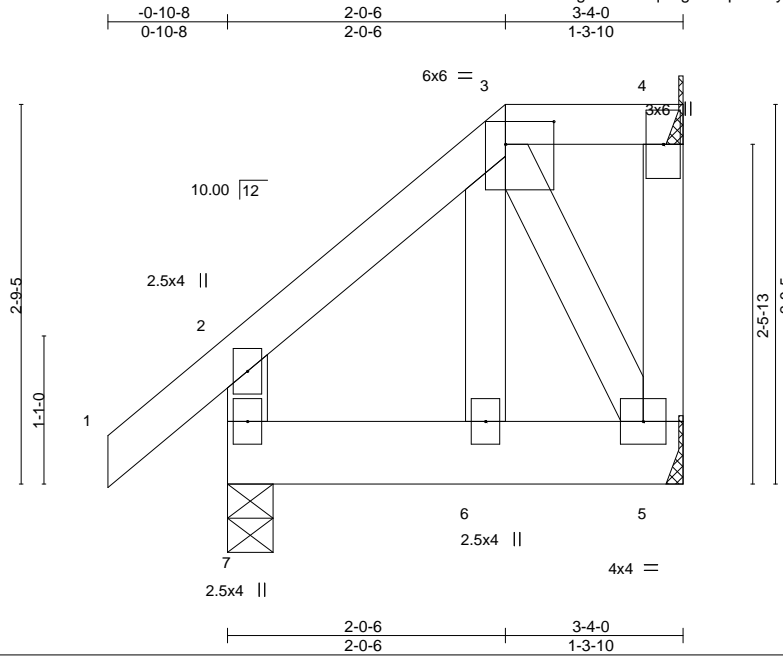
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516096
COMAS_JOB	J8B	Half Hip Girder	1	1	Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:22 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-AH4yTFtoKiRsF62OcNII3vlovPsWEtQtpCJITfz4MQB



Scale = 1:16.9

Plate Offsets (X,Y)-- [3:0-4-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	TC 0.12	Vert(LL)	-0.01	6	>999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(TL)	-0.01	6	>999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.04	Horz(TL)	-0.02	4	n/a		
BCDL 10.0	Code IBC2012/TPI2007	Matrix-P					Weight: 20 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SPF No.2  
BOT CHORD 2x6 SPF 1650F 1.5E  
WEBS 2x4 SPF Stud

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) 4=35/Mechanical, 5=84/Mechanical, 7=198/0-4-0  
Max Horz 7=81(LC 5)  
Max Uplift 4=-13(LC 5), 5=-46(LC 5), 7=-35(LC 8)  
Max Grav 4=35(LC 1), 5=103(LC 31), 7=198(LC 1)

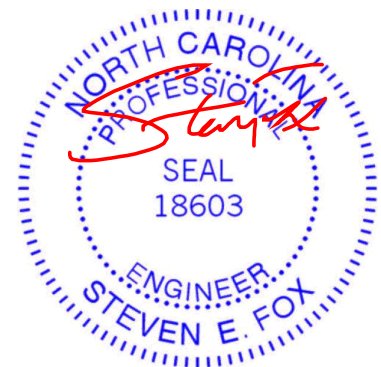
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES-**

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5, 7.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 43 lb up at 2-0-6 on top chord, and 22 lb down and 17 lb up at 2-1-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20  
Concentrated Loads (lb)  
Vert: 6=-6(F) 3=-5(F)



June 21, 2019

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
COMAS_JOB	JF	Jack-Open	1	1	

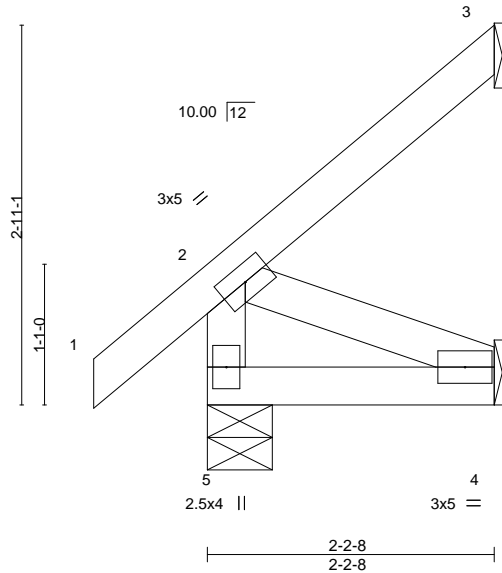
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:23 2019 Page 1

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Scale = 1:17.7



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.11	Vert(LL)	-0.00 4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(TL)	-0.00 4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(TL)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IBC2012/TPI2007	Matrix-P					Weight: 10 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF Stud

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-2-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=158/0-6-0, 3=44/Mechanical, 4=21/Mechanical  
 Max Horz 5=63(LC 10)  
 Max Uplift 3=-34(LC 10), 4=-16(LC 10)  
 Max Grav 5=169(LC 16), 3=49(LC 18), 4=41(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 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) 3, 4.



June 21, 2019

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516098
COMAS_JOB	R1	Common	4	1	

84 Components (Dunn), Dunn, NC - 28334,

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4x6 ||

Scale = 1:60.0

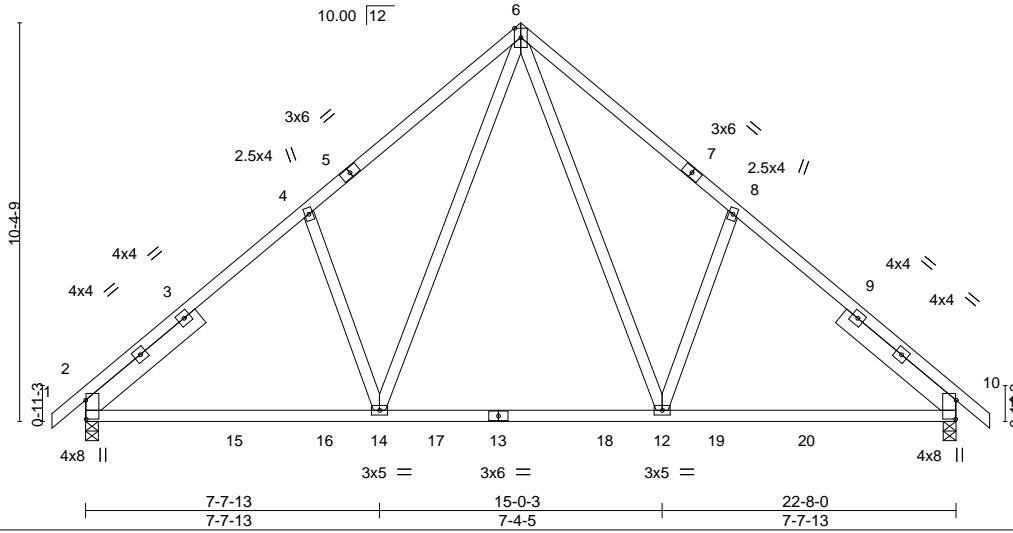


Plate Offsets (X,Y)-- [2:0-5-14,0-0-2], [10:0-5-14,0-0-2]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2012/TPI2007	TC 0.33 BC 0.53 WB 0.27 Matrix-S	in (loc) l/defl L/d Vert(LL) -0.10 12-14 >999 240 Vert(TL) -0.21 2-14 >999 180 Horz(TL) 0.03 10 n/a n/a	MT20	197/144
TCDL 10.0				Weight: 113 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

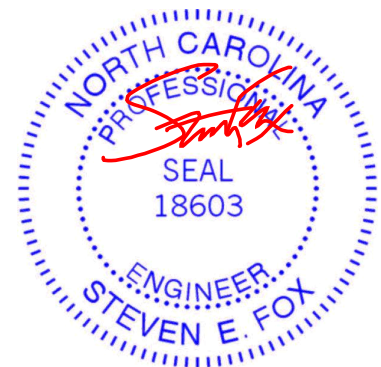
**LUMBER-**  
TOP CHORD 2x4 SPF No.2  
BOT CHORD 2x4 SPF No.2  
WEBS 2x4 SPF No.2 \*Except\*  
8-12,4-14: 2x4 SPF Stud  
SLIDER Left 2x6 SPF 1650F 1.5E 3-10-8, Right 2x6 SPF 1650F 1.5E 3-10-8

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-5-12 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=959/0-4-0, 10=959/0-4-0  
Max Horz 2=-197(LC 8)  
Max Uplift 2=-61(LC 10), 10=-61(LC 11)  
Max Grav 2=997(LC 18), 10=997(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-1168/145, 4-6=-1049/246, 6-8=-1049/246, 8-10=-1168/145  
BOT CHORD 2-14=-93/905, 12-14=0/622, 10-12=-12/808  
WEBS 6-12=-132/566, 8-12=-270/228, 6-14=-132/566, 4-14=-270/228

- NOTES-**
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.



June 21, 2019

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516099
COMAS_JOB	R1A	FINK	5	1	

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:27 2019 Page 1

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4x6 ||

Scale = 1:60.5

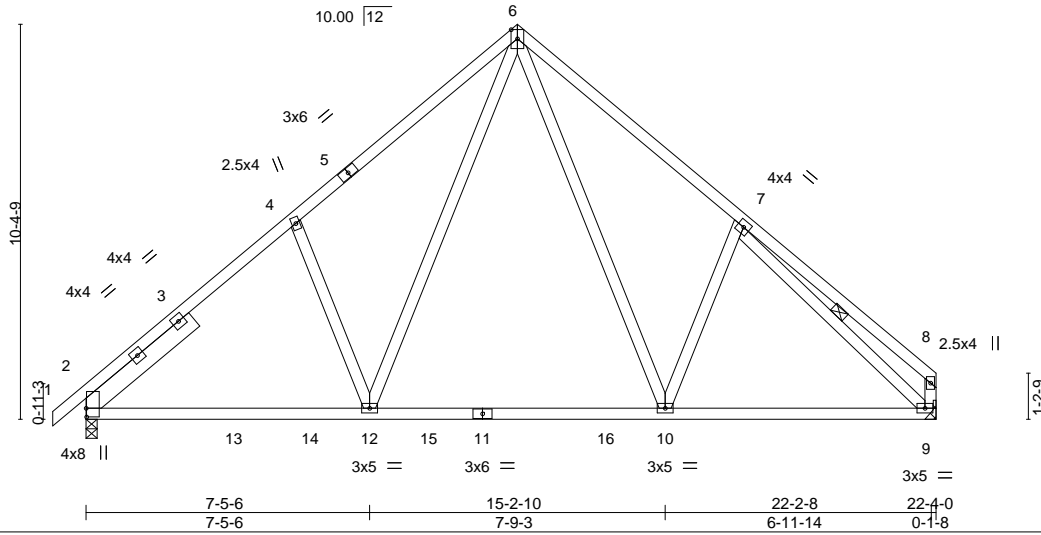


Plate Offsets (X,Y)-- [2-0-2-12,0-0-2]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2012/TPI2007	TC 0.42 BC 0.55 WB 0.33 Matrix-S	in (loc) l/defl L/d Vert(LL) -0.16 10-12 >999 240 Vert(TL) -0.26 10-12 >999 180 Horz(TL) 0.03 9 n/a n/a	MT20	197/144
TCDL 10.0					
BCLL 0.0 *					
BCDL 10.0				Weight: 112 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF Stud \*Except\*  
 6-12,6-10: 2x4 SPF No.2  
 SLIDER Left 2x6 SPF 1650F 1.5E 3-8-2

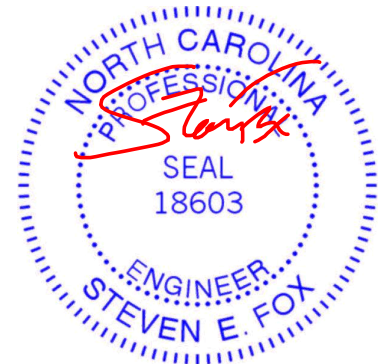
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-5-13 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 7-9

**REACTIONS.** (lb/size) 2=941/0-3-8, 9=886/Mechanical  
 Max Horz 2=194(LC 7)  
 Max Uplift 2=-60(LC 10), 9=-42(LC 11)  
 Max Grav 2=960(LC 18), 9=886(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1128/144, 4-6=-1014/239, 6-7=-972/237  
 BOT CHORD 2-12=-118/874, 10-12=0/573, 9-10=-48/720  
 WEBS 4-12=-266/225, 6-12=-125/571, 6-10=-120/471, 7-9=-1036/69

**NOTES-**

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.



June 21, 2019

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

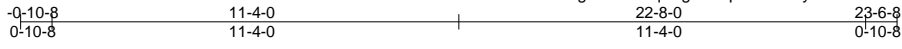


Job	Truss	Truss Type	Qty	Ply	137516100
COMAS_JOB	R1G	Common Supported Gable	1	1	Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:28 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-?RRDklyZvYC?z1VYyes9JAYoCqwweagIB8mchJz4MQ5



4x4 =

Scale: 3/16"=1'

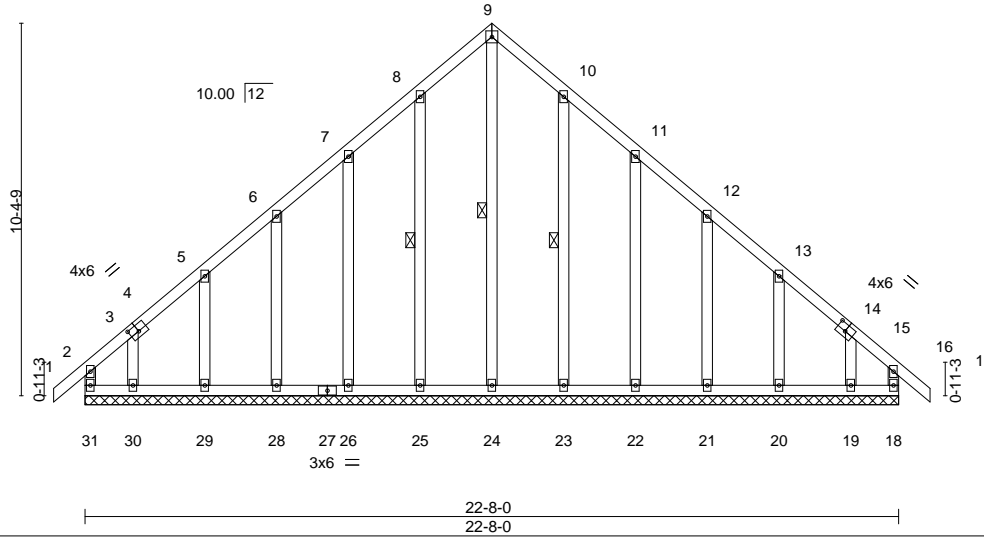


Plate Offsets (X,Y)-- [3:0-2-4,0-0-0], [4:0-3-0,0-2-4], [4:0-0-0,0-1-12], [14:0-3-0,0-2-4], [14:0-0-0,0-1-12], [15:0-2-4,0-0-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2012/TPI2007	TC 0.13 BC 0.07 WB 0.12 Matrix-R	in (loc) l/defl L/d Vert(LL) 0.00 16 n/r 120 Vert(TL) -0.00 16 n/r 90 Horz(TL) 0.00 18 n/a n/a	MT20	197/144
TCDL 10.0					
BCLL 0.0 *					
BCDL 10.0				Weight: 130 lb	FT = 20%

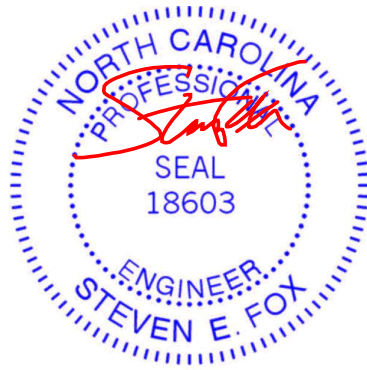
**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF Stud  
 OTHERS 2x4 SPF Stud \*Except\*  
 9-24,8-25,10-23: 2x4 SPF No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 9-24, 8-25, 10-23

**REACTIONS.** All bearings 22-8-0.  
 (lb) - Max Horz 31=-218(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 18, 25, 26, 28, 29, 23, 22, 21, 20 except 31=127(LC 6), 30=-150(LC 10), 19=-138(LC 11)  
 Max Grav All reactions 250 lb or less at joint(s) 31, 18, 24, 25, 26, 28, 29, 30, 23, 22, 21, 20, 19

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 9-24=-256/153

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only. 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.
  - 3) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - 4) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - 5) All plates are 2.5x4 MT20 unless otherwise indicated.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 8) Gable studs spaced at 2-0-0 oc.
  - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 25, 26, 28, 29, 23, 22, 21, 20 except (jt=lb) 31=127, 30=150, 19=138.



June 21, 2019

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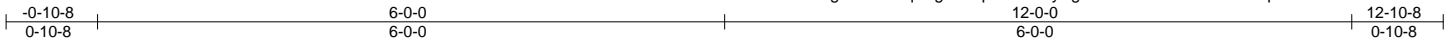
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516101
COMAS_JOB	R2	Common	3	1	

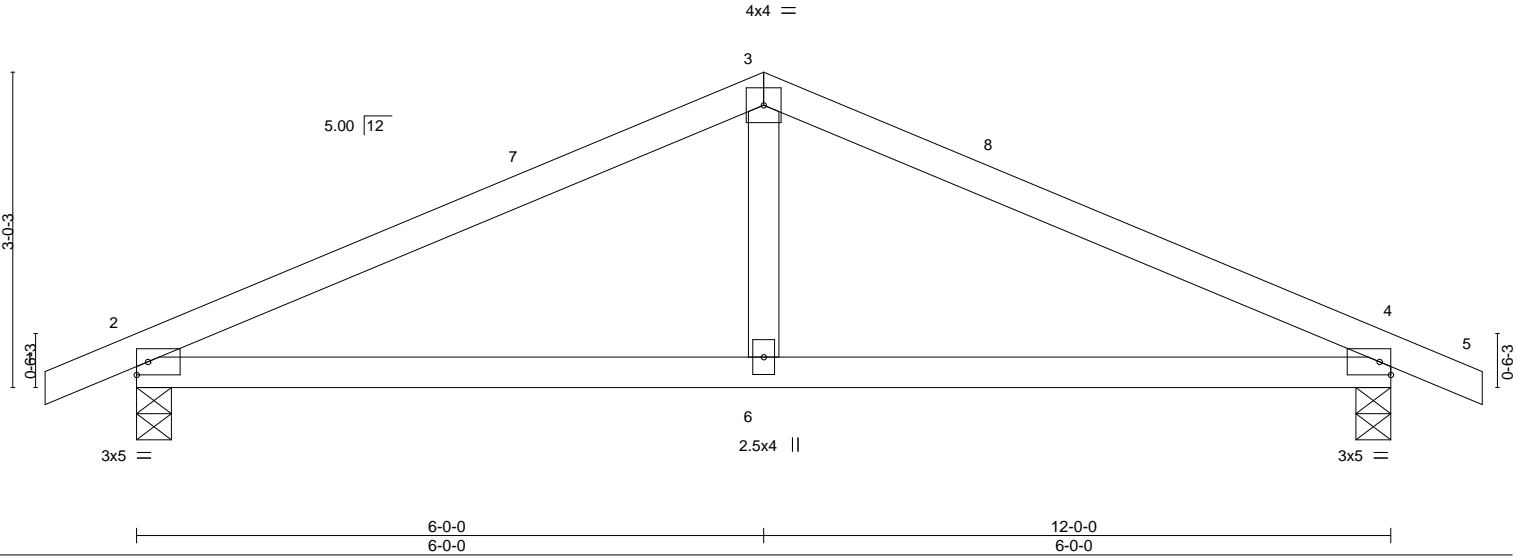
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:29 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-Td?cxeyBgsKsbB4kWLNOrN5vGEApN1?vQoV9Diz4MQ4



Scale = 1:22.0



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2012/TPI2007	TC 0.43 BC 0.35 WB 0.11 Matrix-S	in (loc) l/defl L/d Vert(LL) -0.03 2-6 >999 240 Vert(TL) -0.09 2-6 >999 180 Horz(TL) 0.01 4 n/a n/a	MT20	197/144
TCDL 10.0				Weight: 34 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

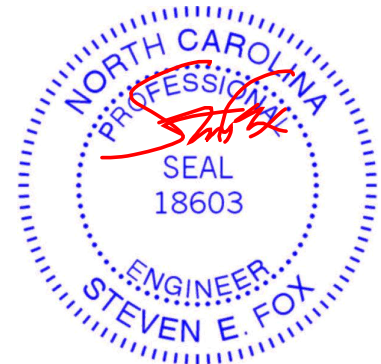
**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF Stud

**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) 2=529/0-4-0, 4=529/0-4-0  
 Max Horz 2=37(LC 12)  
 Max Uplift 2=-53(LC 12), 4=-53(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-699/134, 3-4=-699/134  
 BOT CHORD 2-6=-53/570, 4-6=-53/570  
 WEBS 3-6=0/282

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



June 21, 2019

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516102
COMAS_JOB	R2A	Common	2	1	

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:29 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-Td?cxeyBgsKsbB4kWLNOvN5vDEADN15vQoV9Diz4MQ4

Job Reference (optional)

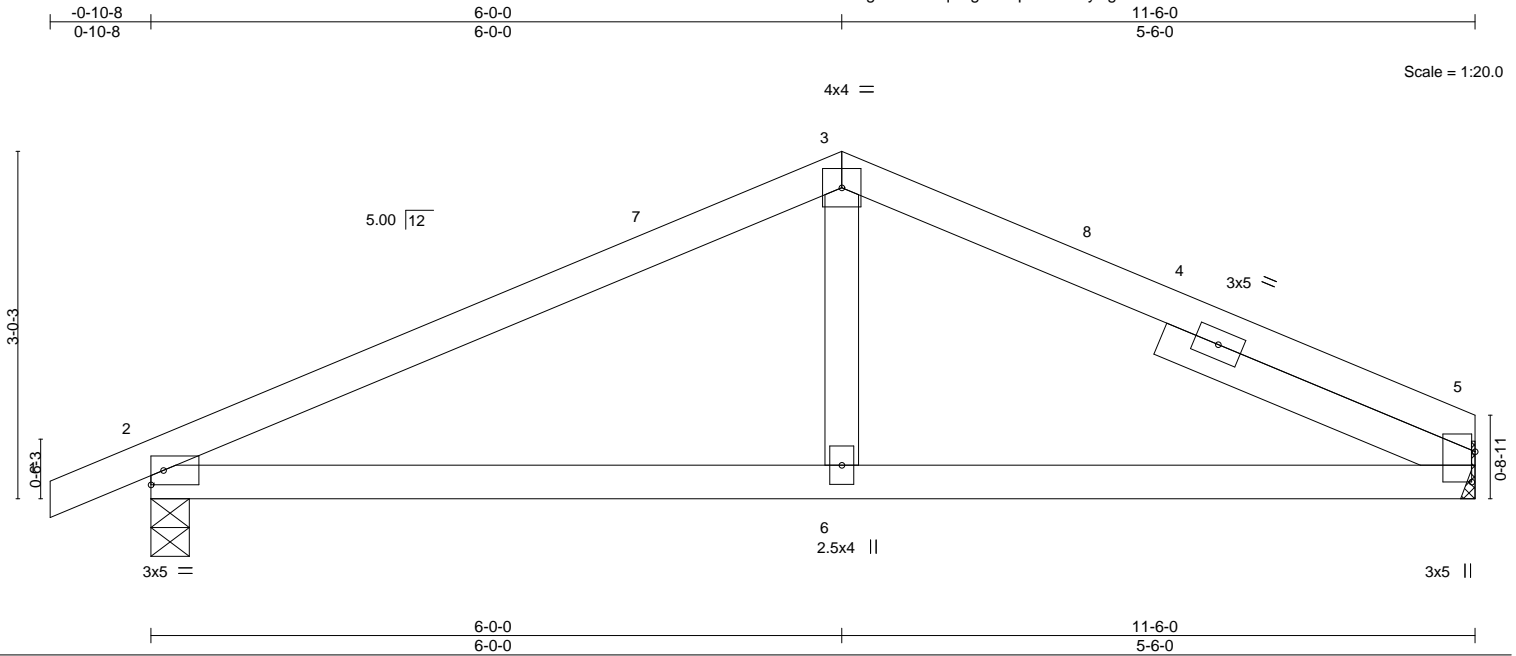


Plate Offsets (X,Y)-- [5:0-3-3,0-0-6]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.03	2-6	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(TL) -0.09	2-6	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(TL) 0.01	5	n/a	n/a		
BCDL 10.0	Code IBC2012/TPI2007	Matrix-S					Weight: 35 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF Stud  
 SLIDER Right 2x4 SPF Stud 2-11-6

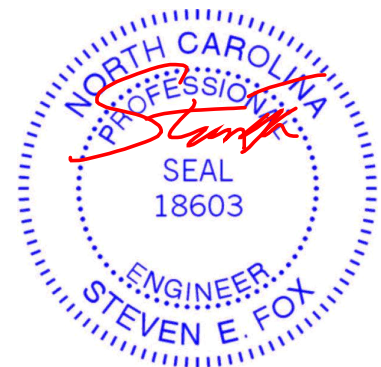
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=450/Mechanical, 2=519/0-4-0  
 Max Horz 2=39(LC 16)  
 Max Uplift 5=-32(LC 13), 2=-53(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-662/134, 3-5=-652/138  
 BOT CHORD 2-6=-60/533, 5-6=-60/533  
 WEBS 3-6=0/267

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.



June 21, 2019

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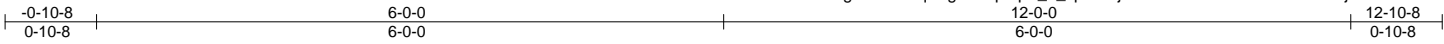
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516103
COMAS_JOB	R2G	Common Supported Gable	1	1	Job Reference (optional)

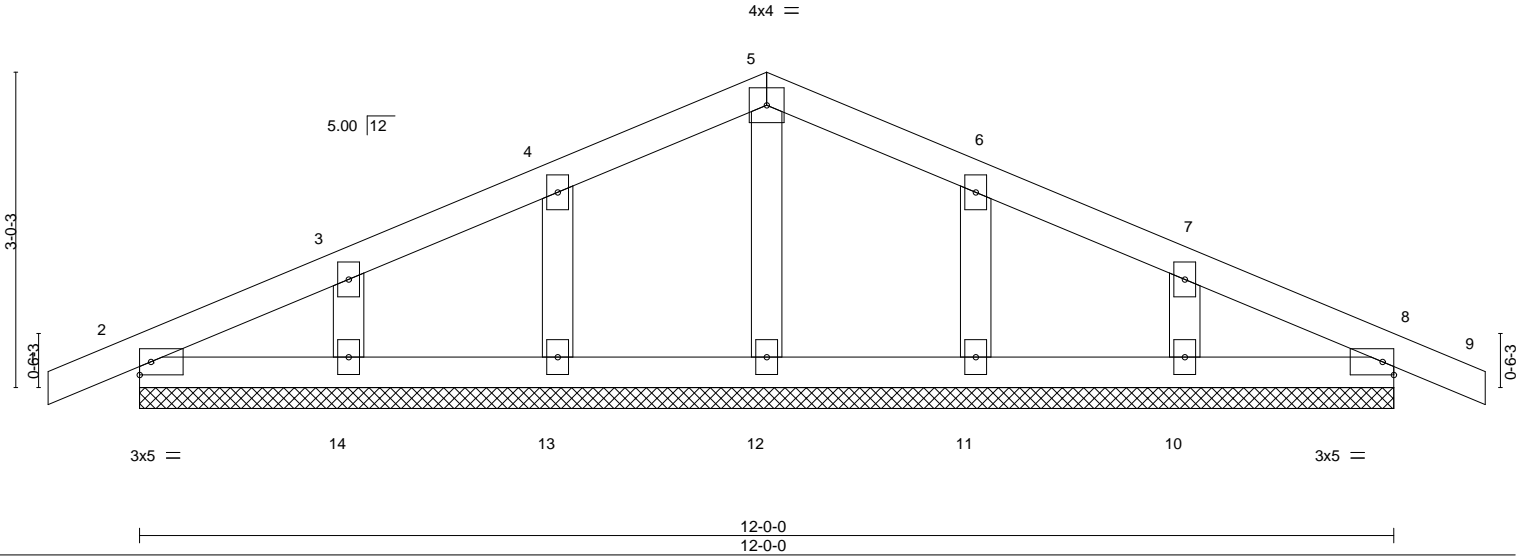
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:30 2019 Page 1

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Scale = 1:22.0



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.07	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) 0.00 8 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(TL) 0.00 8 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 8 n/a n/a	Weight: 39 lb	FT = 20%
	Code IBC2012/TPI2007				

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 OTHERS 2x4 SPF Stud

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

**REACTIONS.** All bearings 12-0-0.  
 (lb) - Max Horz 2=37(LC 16)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10  
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. 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.
- 3) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 19.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2.5x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.



June 21, 2019

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516104
COMAS_JOB	R3	Common	1	1	

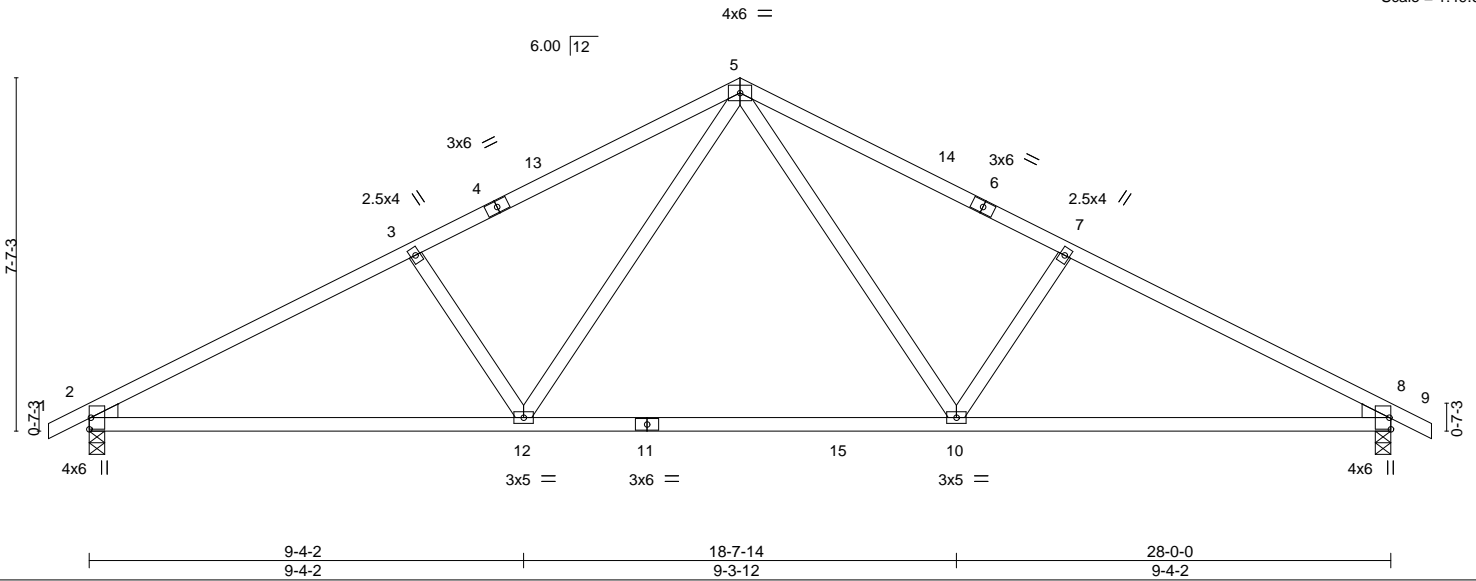
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:31 2019 Page 1

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0-10-8 7-0-3 14-0-0 20-11-13 28-0-0 28-10-8  
 0-10-8 7-0-3 6-11-13 6-11-13 7-0-3 0-10-8

Scale = 1:49.6



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2012/TPI2007	TC 0.77 BC 0.82 WB 0.18 Matrix-S	in (loc) l/defl L/d Vert(LL) -0.32 10-12 >999 240 Vert(TL) -0.53 8-10 >622 180 Horz(TL) 0.08 8 n/a n/a	MT20	197/144
TCDL 10.0				Weight: 100 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF No.2 \*Except\*  
 7-10,3-12: 2x4 SPF Stud  
 WEDGE  
 Left: 2x4 SPF Stud, Right: 2x4 SPF Stud

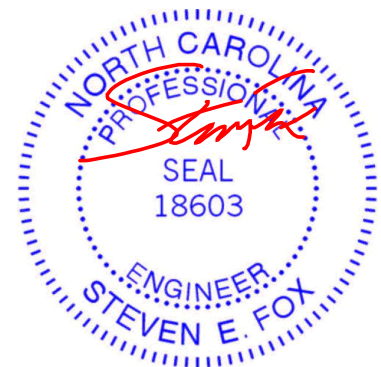
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=1169/0-4-0, 8=1169/0-4-0  
 Max Horz 2=-97(LC 13)  
 Max Uplift 2=-97(LC 12), 8=-97(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1850/334, 3-5=-1643/342, 5-7=-1643/342, 7-8=-1850/334  
 BOT CHORD 2-12=-214/1565, 10-12=-53/1055, 8-10=-214/1565  
 WEBS 5-10=-82/643, 7-10=-399/217, 5-12=-82/641, 3-12=-399/217

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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) 2, 8.



June 21, 2019

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

Job	Truss	Truss Type	Qty	Ply	137516105
COMAS_JOB	R3A	Hip	1	1	

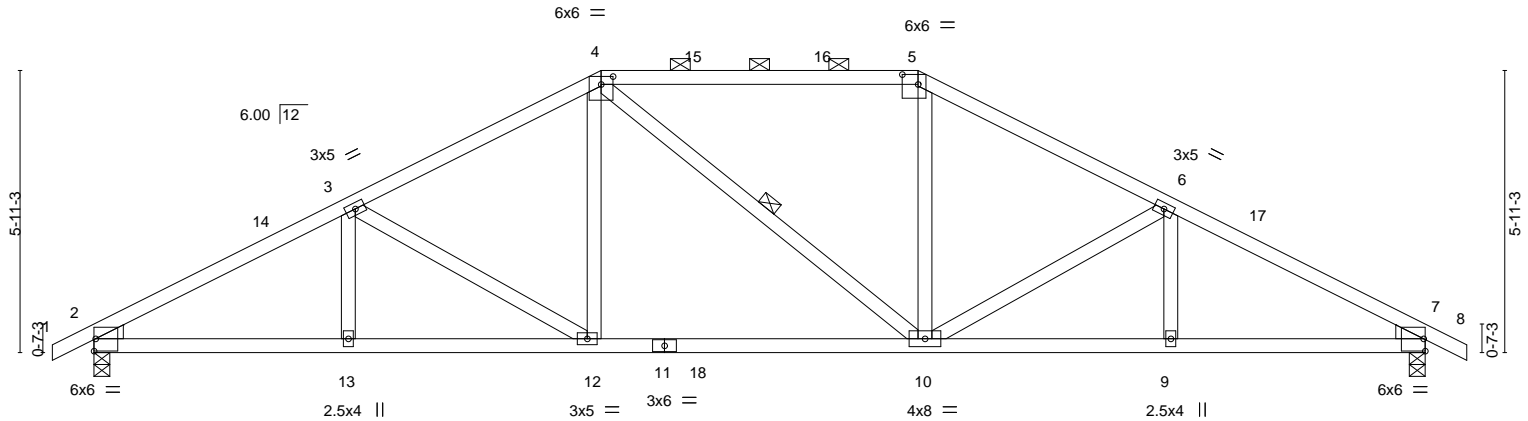
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:32 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-tChkag?4zniRSepJBUw5T0jjR6caJZL6mkqq4z4MQ1

0-10-8	5-4-3	10-8-0	17-4-0	22-7-13	28-0-0	28-10-8
0-10-8	5-4-3	5-3-13	6-8-0	5-3-13	5-4-3	0-10-8

Scale: 1/4"=1'



5-4-3	10-8-0	17-4-0	22-7-13	28-0-0
5-4-3	5-3-13	6-8-0	5-3-13	5-4-3

Plate Offsets (X,Y)-- [2:0-0-3,0-0-2], [2:0-5-1,0-0-3], [2:Edge,0-3-2], [4:0-3-0,0-2-0], [5:0-4-0,0-2-8], [7:0-0-3,0-0-2], [7:0-5-1,0-0-3], [7:Edge,0-3-2]

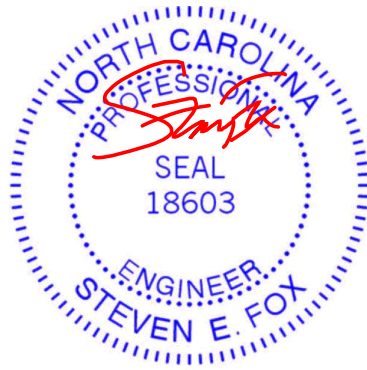
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2012/TPI2007	TC 0.93 BC 0.73 WB 0.44 Matrix-S	in (loc) l/defl L/d Vert(LL) -0.11 10-12 >999 240 Vert(TL) -0.28 10-12 >999 180 Horz(TL) 0.10 7 n/a n/a	MT20	197/144
TCDL 10.0				Weight: 111 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2 *Except* 4-5: 2x4 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 3-2-9 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 4-5.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF Stud *Except* 4-10: 2x4 SPF No.2	WEBS 1 Row at midpt 4-10
<b>WEDGE</b> Left: 2x4 SPF Stud, Right: 2x4 SPF Stud	

**REACTIONS.** (lb/size) 2=1169/0-4-0, 7=1169/0-4-0  
 Max Horz 2=-76(LC 17)  
 Max Uplift 2=-78(LC 12), 7=-78(LC 13)  
 Max Grav 2=1553(LC 31), 7=1553(LC 31)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2491/300, 3-4=-1857/282, 4-5=-1528/285, 5-6=-1858/282, 6-7=-2491/301  
 BOT CHORD 2-13=-197/2064, 12-13=-197/2064, 10-12=-89/1528, 9-10=-197/2064, 7-9=-197/2064  
 WEBS 3-12=-606/125, 4-12=0/441, 5-10=0/430, 6-10=-605/125

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - 5) Provide adequate drainage to prevent water ponding.
  - 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, with BCDL = 10.0psf.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

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**ENGINEERING BY**  
**TRENCO**  
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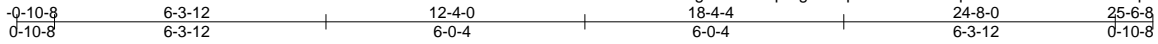
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516106
COMAS_JOB	R4	Common	4	1	

84 Components (Dunn), Dunn, NC - 28334,

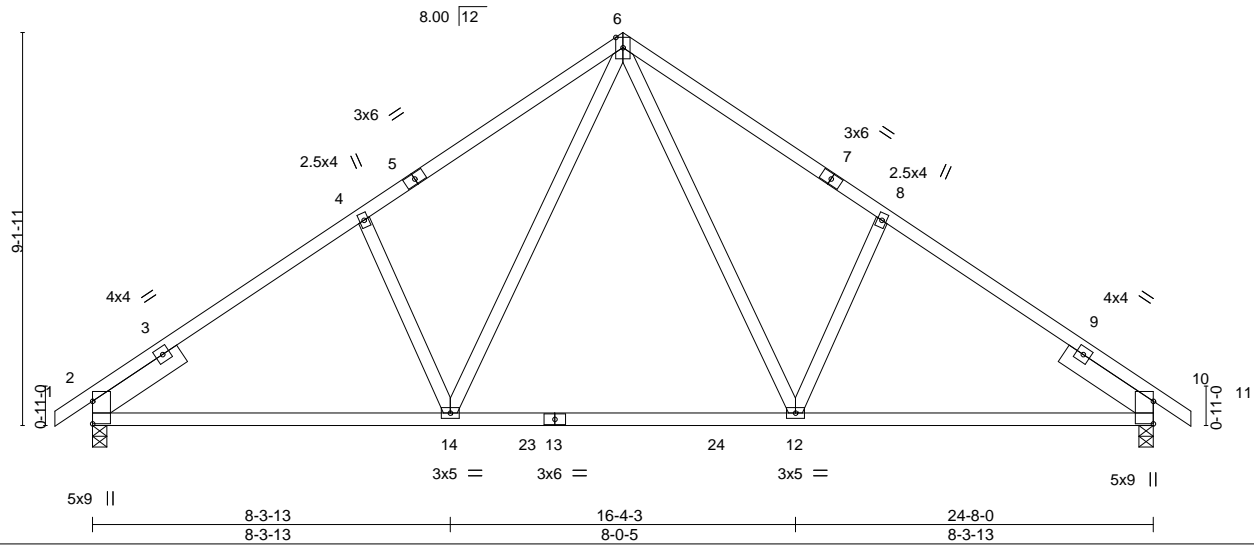
8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:33 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-LOE6n0?ik5ql3oNVIBRK0DFazrUeJq9VLQTNMWz4MQ0



4x6 ||

Scale = 1:53.6



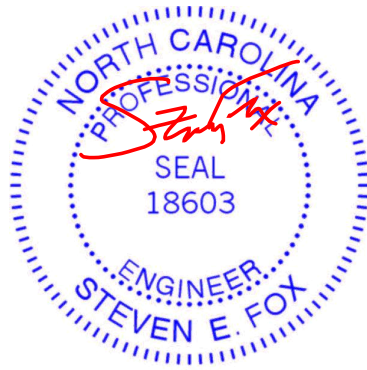
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2012/TPI2007	TC 0.45 BC 0.61 WB 0.17 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.23 12-14 >999 240 Vert(TL) -0.38 12-14 >774 180 Horz(TL) 0.06 10 n/a n/a	MT20	197/144
TCDL 10.0				Weight: 106 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-15 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* 8-12,4-14: 2x4 SPF Stud	
SLIDER Left 2x6 SPF 1650F 1.5E 2-6-0, Right 2x6 SPF 1650F 1.5E 2-6-0	

<b>REACTIONS.</b> (lb/size) 2=1039/0-4-0, 10=1039/0-4-0
Max Horz 2=-170(LC 8)
Max Uplift 2=-76(LC 10), 10=-76(LC 11)

<b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1260/172, 4-6=-1168/232, 6-8=-1168/232, 8-10=-1260/172
BOT CHORD 2-14=-112/1087, 12-14=0/746, 10-12=-44/989
WEBS 6-12=-99/547, 8-12=-288/198, 6-14=-99/547, 4-14=-288/198

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - 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) 2, 10.



June 21, 2019

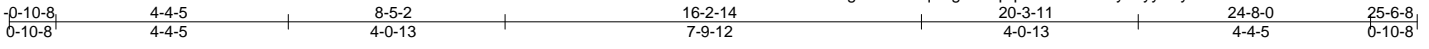
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	137516107
COMAS_JOB	R4A	Hip	1	1	

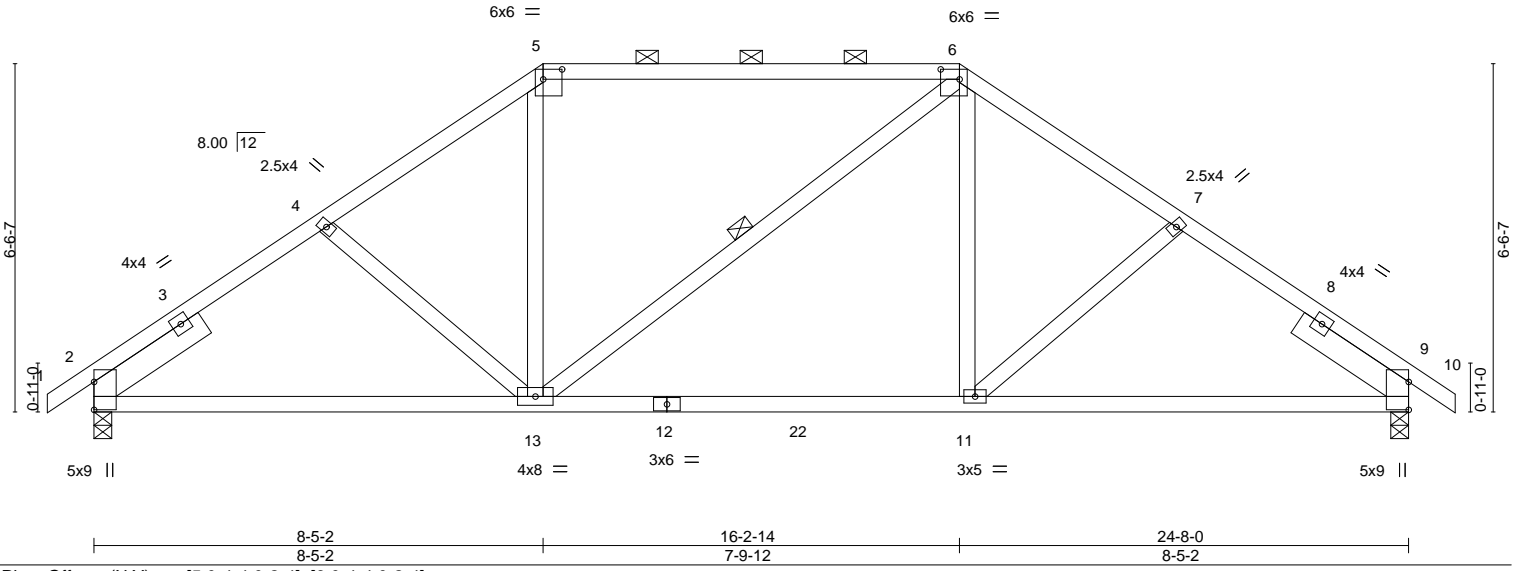
84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:34 2019 Page 1

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Scale = 1:43.2



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2012/TPI2007	TC 0.97 BC 0.50 WB 0.13 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.11 11-13 >999 240 Vert(TL) -0.26 11-13 >999 180 Horz(TL) 0.05 9 n/a n/a	MT20	197/144
TCDL 10.0				Weight: 108 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

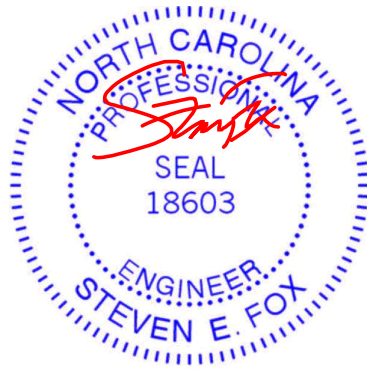
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-9-6 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 5-6.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF Stud *Except* 6-13: 2x4 SPF No.2	WEBS 1 Row at midpt 6-13
SLIDER Left 2x6 SPF 1650F 1.5E 2-6-0, Right 2x6 SPF 1650F 1.5E 2-6-0	

**REACTIONS.** (lb/size) 2=1039/0-4-0, 9=1039/0-4-0  
Max Horz 2=-121(LC 8)  
Max Uplift 2=-57(LC 10), 9=-57(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-1262/190, 4-5=-1139/184, 5-6=-912/190, 6-7=-1139/184, 7-9=-1262/190  
BOT CHORD 2-13=-80/990, 11-13=-3/912, 9-11=-72/990  
WEBS 5-13=0/338, 6-11=0/338

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 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) 2, 9.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

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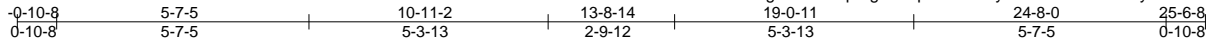


Job	Truss	Truss Type	Qty	Ply	137516108
COMAS_JOB	R4B	Hip	1	1	

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:35 2019 Page 1

ID:Gbs5d2EBwvghszRMqhXgz5S1p-InMtCh1yGi40J6XutcUo5eLyufB5niVnokyURPz4MQ\_



Scale = 1:51.2

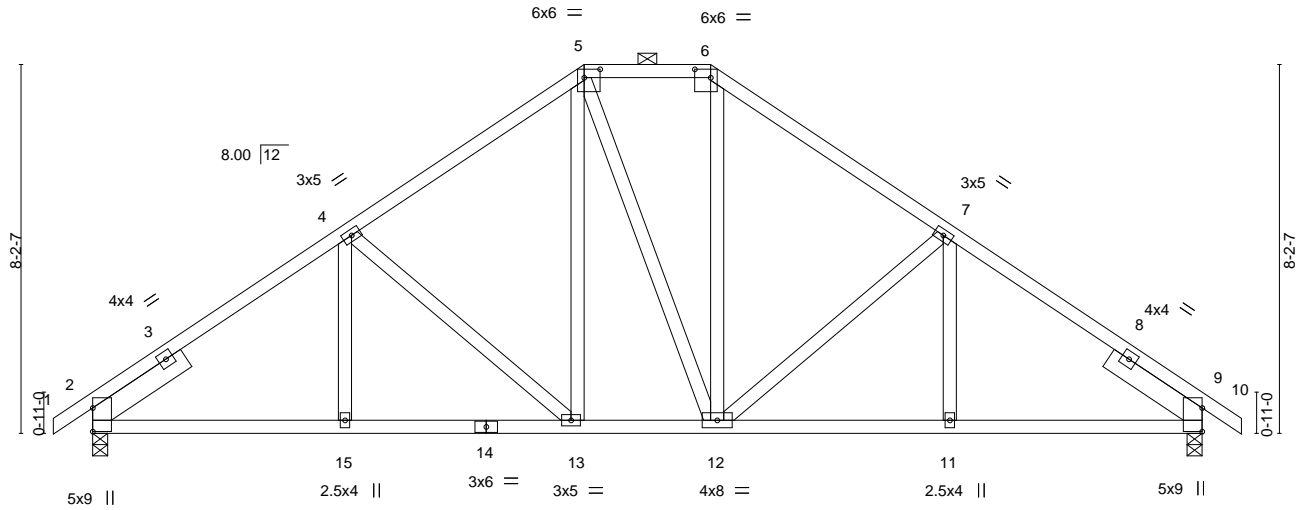


Plate Offsets (X,Y)--	[5:0-4-4,0-2-4], [6:0-4-4,0-2-4]
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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.36 BC 0.49 WB 0.30 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.05 13-15 >999 240 Vert(TL) -0.14 13-15 >999 180 Horz(TL) 0.06 9 n/a n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr YES				
BCLL 0.0 *	Code IBC2012/TPI2007				
BCDL 10.0				Weight: 124 lb	FT = 20%

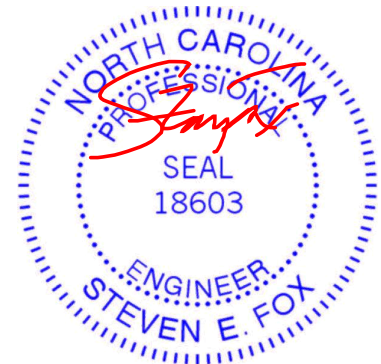
**LUMBER-**  
TOP CHORD 2x4 SPF No.2  
BOT CHORD 2x4 SPF No.2  
WEBS 2x4 SPF Stud \*Except\*  
5-13,5-12,6-12: 2x4 SPF No.2  
SLIDER Left 2x6 SPF 1650F 1.5E 2-6-0, Right 2x6 SPF 1650F 1.5E 2-6-0

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 5-6.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 2=1039/0-4-0, 9=1039/0-4-0  
Max Horz 2=153(LC 9)  
Max Uplift 2=-70(LC 10), 9=-70(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-1275/166, 4-5=-1025/193, 5-6=-770/195, 6-7=-1026/193, 7-9=-1275/166  
BOT CHORD 2-15=-94/1003, 13-15=-94/1003, 12-13=0/769, 11-12=-47/1003, 9-11=-47/1003  
WEBS 4-13=-332/137, 5-13=-36/306, 6-12=-25/307, 7-12=-331/138

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
COMAS_JOB	R4C	Common	2	1	

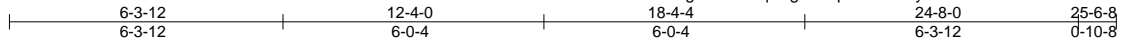
137516109

84 Components (Dunn),

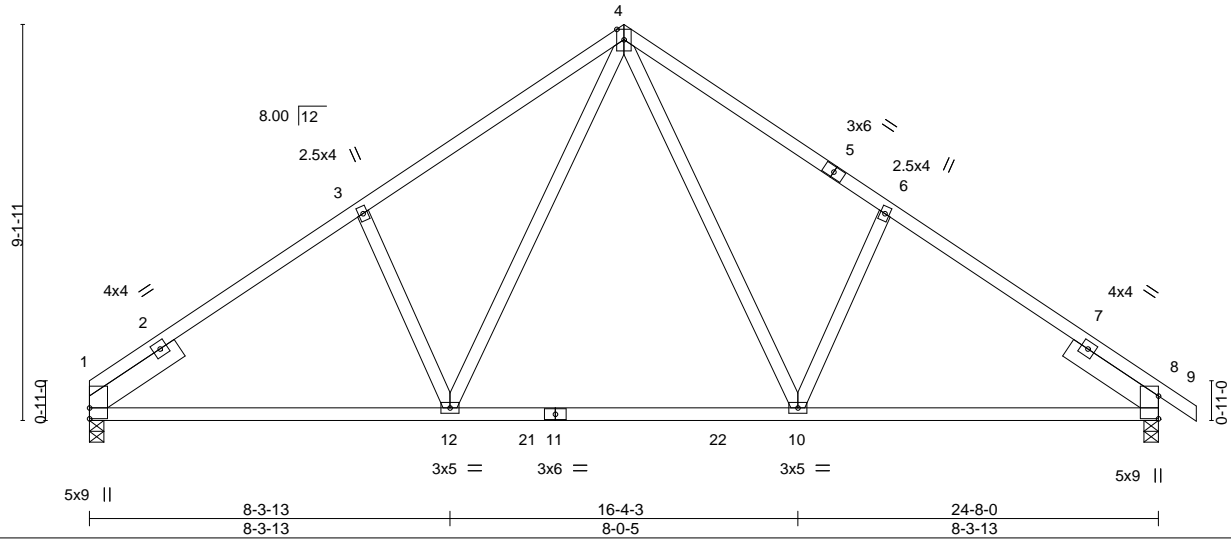
Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:35 2019 Page 1

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Scale = 1:53.2



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2012/TPI2007	TC 0.45 BC 0.61 WB 0.17 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.23 10-12 >999 240 Vert(TL) -0.38 10-12 >776 180 Horz(TL) 0.06 8 n/a n/a	MT20	197/144
TCDL 10.0				Weight: 105 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

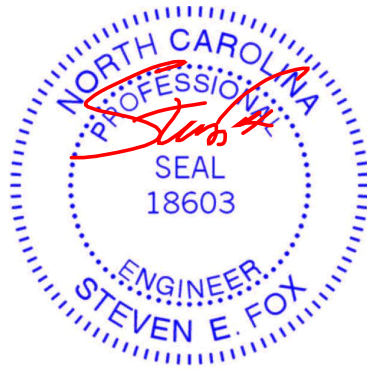
**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF No.2 \*Except\*  
 6-10,3-12: 2x4 SPF Stud  
 SLIDER Left 2x6 SPF 1650F 1.5E 2-6-0, Right 2x6 SPF 1650F 1.5E 2-6-0

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

**REACTIONS.** (lb/size) 1=986/0-4-0, 8=1040/0-4-0  
 Max Horz 1=-167(LC 8)  
 Max Uplift 1=-61(LC 10), 8=-76(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-1263/173, 3-4=-1172/233, 4-6=-1169/232, 6-8=-1261/173  
 BOT CHORD 1-12=-113/1091, 10-12=0/747, 8-10=-45/990  
 WEBS 4-10=-99/547, 6-10=-288/198, 4-12=-100/551, 3-12=-290/198

- NOTES-**
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8.



June 21, 2019

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818 Soundside Road  
 Edenton, NC 27932

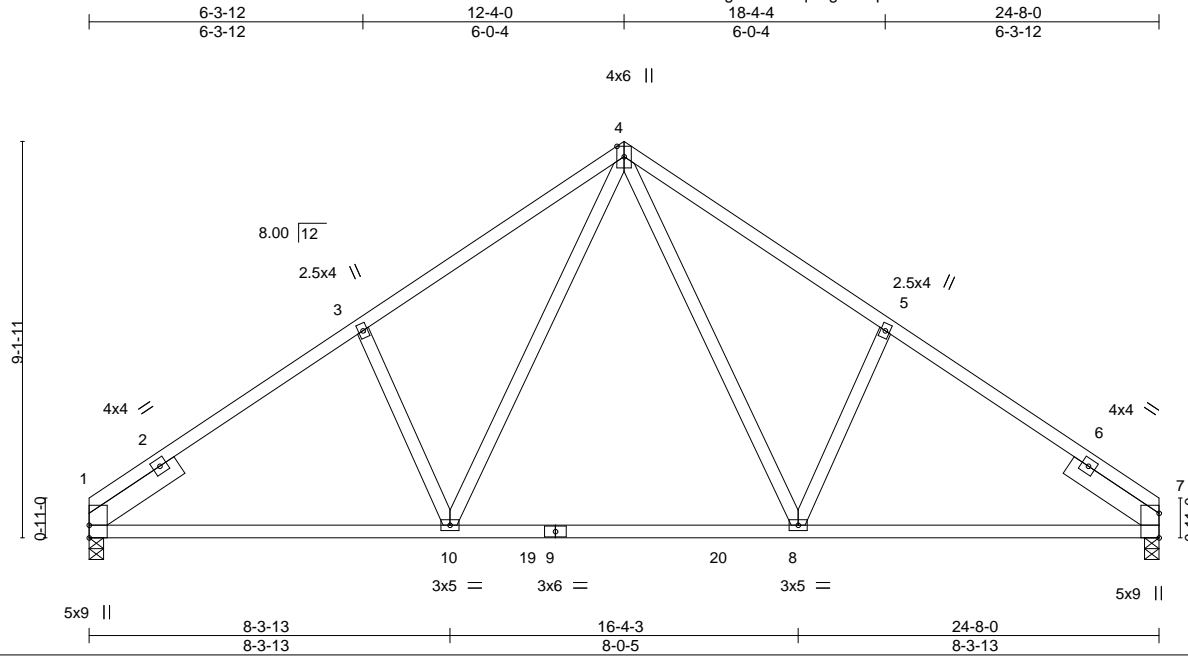
Job	Truss	Truss Type	Qty	Ply	137516110
COMAS_JOB	R4D	Common	1	1	

84 Components (Dunn),

Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:36 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-mzwFP12a10CswF64QJ?1dst6S3VNWuAux1Oi1yrz4MPz



Scale = 1:53.1

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2012/TPI2007	TC 0.44 BC 0.61 WB 0.17 Matrix-MS	in (loc) l/defl L/d Vert(LL) -0.23 8-10 >999 240 Vert(TL) -0.38 8-10 >779 180 Horz(TL) 0.05 7 n/a n/a	MT20	197/144
TCDL 10.0				Weight: 104 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

**LUMBER-**

TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF No.2 \*Except\*  
 5-8,3-10: 2x4 SPF Stud  
 SLIDER Left 2x6 SPF 1650F 1.5E 2-6-0, Right 2x6 SPF 1650F 1.5E 2-6-0

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-7-4 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

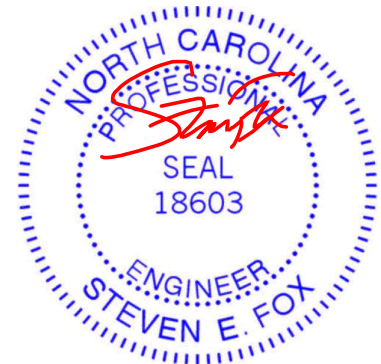
(lb/size) 1=987/0-4-0, 7=987/0-4-0  
 Max Horz 1=-159(LC 6)  
 Max Uplift 1=-61(LC 10), 7=-61(LC 11)

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

TOP CHORD 1-3=-1265/174, 3-4=-1173/233, 4-5=-1173/233, 5-7=-1265/174  
 BOT CHORD 1-10=-120/1086, 8-10=-0/743, 7-8=-71/994  
 WEBS 4-8=-100/551, 5-8=-290/198, 4-10=-100/551, 3-10=-290/198

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 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) 1, 7.



June 21, 2019

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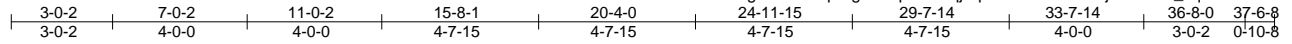
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516111
COMAS_JOB	R5A	Roof Special Girder	1	1	
					Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:38 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-iM2?qj3qZdTaaZGTYk1VjHzMxs6l\_vqEUhB81kz4MPx



Scale = 1:68.5

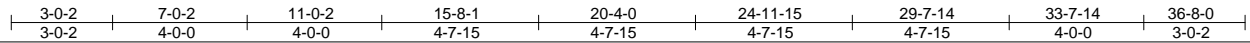
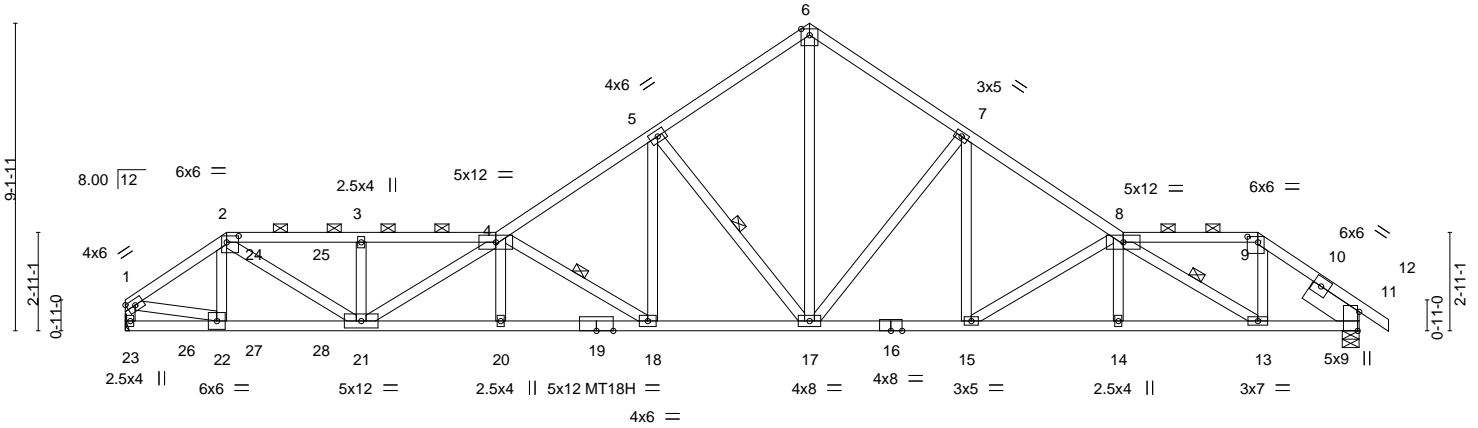


Plate Offsets (X, Y)-- [2-0-4-4,0-2-4], [9-0-3-12,0-2-0], [11-0-6-13,Edge]

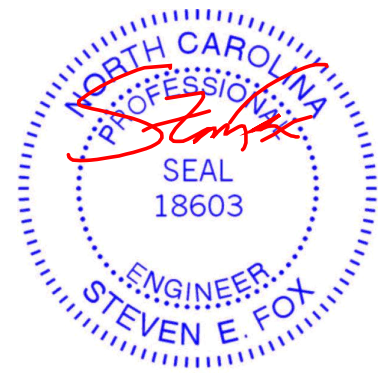
LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.82 BC 0.90 WB 0.84 Matrix-S	in (loc) l/defl L/d Vert(LL) -0.29 18-20 >999 240 Vert(TL) -0.74 18-20 >593 180 Horz(TL) 0.19 11 n/a n/a	MT20 MT18H	197/144 197/144
TCDL 10.0	Rep Stress Incr NO				
BCLL 0.0 *	Code IBC2012/TPI2007				
BCDL 10.0				Weight: 179 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 9-12: 2x4 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 3-1-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-0-12 max.): 2-4, 8-9.
BOT CHORD 2x4 SPF 1650F 1.5E *Except* 11-16: 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF Stud *Except* 5-17,6-17,7-17: 2x4 SPF No.2	WEBS 1 Row at midpt 4-18, 5-17, 8-13
SLIDER Right 2x8 SP No.1 1-9-7	

**REACTIONS.** (lb/size) 23=1463/Mechanical, 11=1516/0-6-0  
Max Horz 23=-178(LC 4)  
Max Uplift 23=-215(LC 8), 11=-157(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1827/272, 2-3=-3130/400, 3-4=-3130/400, 4-5=-2822/260, 5-6=-1896/208,  
6-7=-1896/227, 7-8=-2535/201, 8-9=-1461/178, 9-11=-2053/199, 1-23=-1429/222  
BOT CHORD 21-22=-288/1493, 20-21=-464/4257, 18-20=-461/4260, 17-18=-203/2311, 15-17=-88/2057,  
14-15=-186/3171, 13-14=-189/3167, 11-13=-101/1523  
WEBS 2-22=-286/63, 2-21=-177/1956, 4-21=-1347/102, 4-18=-2236/296, 5-18=-91/1197,  
5-17=-1272/236, 6-17=-168/1756, 7-17=-870/182, 7-15=-28/723, 8-15=-1278/169,  
8-13=-2017/106, 9-13=-38/1111, 1-22=-178/1419

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - 4) Provide adequate drainage to prevent water ponding.
  - 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) Refer to girder(s) for truss to truss connections.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 23=215, 11=157.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 31 lb up at 3-9-12, and 59 lb down and 31 lb up at 5-9-12, and 59 lb down and 33 lb up at 33-7-14 on top chord, and 23 lb down and 29 lb up at 1-9-12, 23 lb down and 29 lb up at 3-9-12, and 23 lb down and 29 lb up at 5-9-12, and 23 lb down and 29 lb up at 33-7-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



June 21, 2019

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

Job	Truss	Truss Type	Qty	Ply	
COMAS_JOB	R5A	Roof Special Girder	1	1	I37516111

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:38 2019 Page 2

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-iM2?qj3qZdTaaZGTYk1VjHzMxs6l\_vqEUhB81kz4MPx

Job Reference (optional)

**NOTES-**

12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-60, 4-6=-60, 6-8=-60, 8-9=-60, 9-12=-60, 11-23=-20

Concentrated Loads (lb)

Vert: 13=-2(B) 26=-1(B) 27=-1(B) 28=-1(B)

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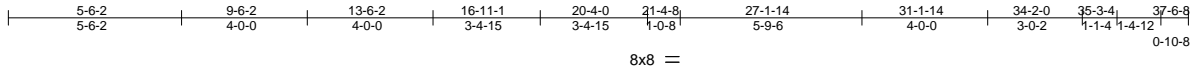


818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516112
COMAS_JOB	R5B	Roof Special	1	1	Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:39 2019 Page 1  
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Scale = 1:73.3

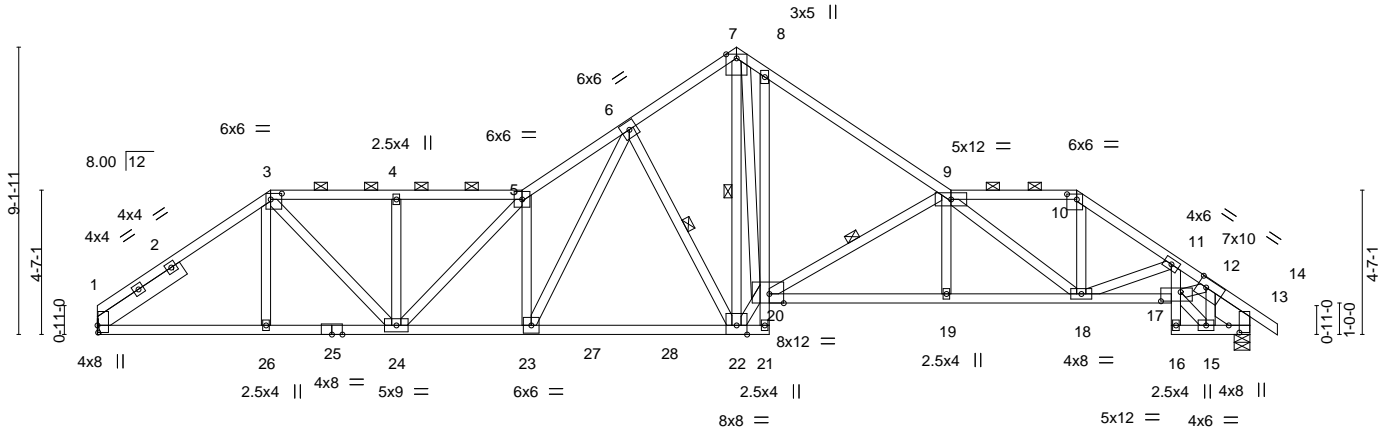


Plate Offsets (X,Y)-- [1:0-2-12,0-0-4], [3:0-4-4,0-2-4], [10:0-3-12,0-2-0], [12:0-3-4,0-3-4], [13:0-2-12,0-4-1], [17:0-7-8,0-3-8], [20:0-5-8,Edge]

LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.87 BC 0.89 WB 0.88 Matrix-S	in (loc) l/defl L/d Vert(LL) -0.27 19-20 >999 240 Vert(TL) -0.70 19-20 >626 180 Horz(TL) 0.34 13 n/a n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr YES				
BCLL 0.0 *	Code IBC2012/TPI2007				
BCDL 10.0				Weight: 203 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2 \*Except\*  
 11-16: 2x4 SPF Stud  
 WEBS 2x4 SPF Stud \*Except\*  
 6-22,7-22,7-20: 2x4 SPF No.2  
 SLIDER Left 2x6 SPF 1650F 1.5E 3-3-7, Right 2x8 SP No.1 1-5-12

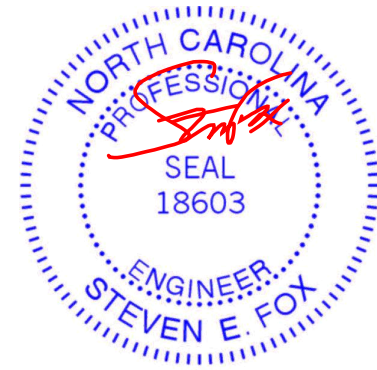
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except  
 2-0-0 oc purlins (3-6-10 max.): 3-5, 9-10.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 6-0-0 oc bracing: 20-21.  
 WEBS 1 Row at midpt 6-22, 7-22, 9-20

**REACTIONS.** (lb/size) 1=1466/Mechanical, 13=1520/0-6-0  
 Max Horz 1=171(LC 7)  
 Max Uplift 1=-119(LC 10), 13=-108(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-2132/254, 3-4=-2431/341, 4-5=-2431/341, 5-6=-3470/492, 6-7=-1898/321,  
 7-8=-2172/418, 8-9=-2290/316, 9-10=-2072/272, 10-11=-2585/304, 11-12=-3544/376,  
 12-13=-1852/199  
 BOT CHORD 1-26=-172/1605, 24-26=-174/1602, 23-24=-263/2919, 22-23=-145/2048, 19-20=-269/3173,  
 18-19=-272/3168, 17-18=-285/3051, 11-17=-35/783, 13-15=-100/1164  
 WEBS 3-24=-136/1215, 4-24=-280/108, 5-24=-715/65, 5-23=-1558/290, 6-23=-243/1832,  
 6-22=-1118/229, 7-22=-296/0, 20-22=0/2052, 7-20=-304/2389, 9-20=-1534/218,  
 9-18=-1398/155, 10-18=-96/1187, 11-18=-989/139, 15-17=-114/1422, 12-17=-174/1833,  
 12-15=-1069/105

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCDL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=119, 13=108.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

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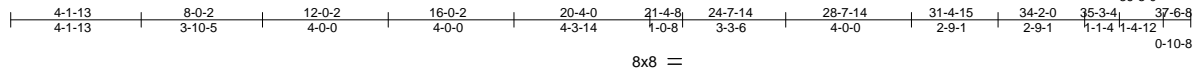
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516113
COMAS_JOB	R5C	Roof Special	1	1	Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:41 2019 Page 1

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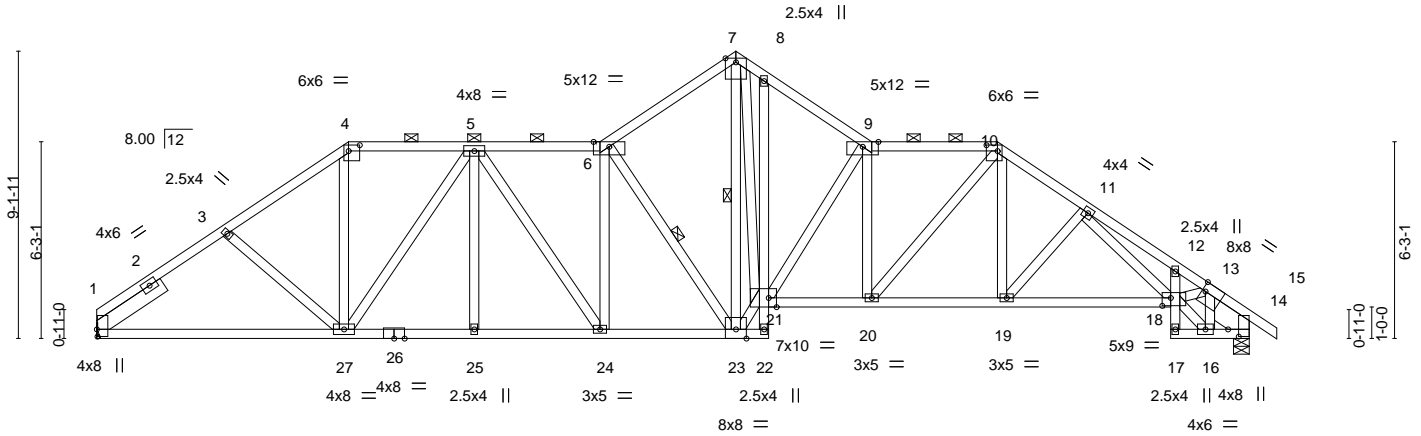


Plate Offsets (X,Y)--	[1:0-2-12,0-0-4], [4:0-4-4,0-2-4], [10:0-4-4,0-2-4], [13:0-1-4,Edge], [14:0-2-12,0-4-1], [18:0-3-4,0-3-0], [21:0-3-0,Edge]
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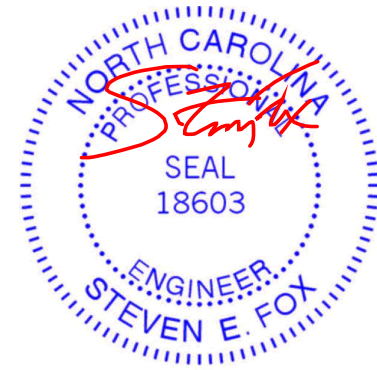
LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15	TC 0.82	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.72	Vert(LL) -0.20 20-21 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.85	Vert(TL) -0.49 20-21 >897 180		
BCDL 10.0	Code IBC2012/TPI2007	Matrix-S	Horz(TL) 0.28 14 n/a n/a		
				Weight: 217 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except
BOT CHORD 2x4 SPF No.2 *Except* 12-17: 2x4 SPF Stud	BOT CHORD 2-0-0 oc purlins (3-6-5 max.): 4-6, 9-10. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SPF Stud *Except* 7-23,7-21: 2x4 SPF No.2	WEBS 6-0-0 oc bracing: 21-22. 1 Row at midpt 6-23, 7-23
SLIDER Left 2x6 SPF 1650F 1.5E 2-6-14, Right 2x8 SP No.1 1-5-12	

**REACTIONS.** (lb/size) 1=1466/Mechanical, 14=1520/0-6-0  
 Max Horz 1=171(LC 7)  
 Max Uplift 1=-119(LC 10), 14=-108(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-2086/281, 3-4=-1923/274, 4-5=-1550/256, 5-6=-2234/341, 6-7=-1900/319,  
 7-8=-2040/364, 8-9=-2226/338, 9-10=-2420/342, 10-11=-2318/307, 11-12=-3226/381,  
 12-13=-3152/333, 13-14=-1869/202  
 BOT CHORD 1-27=-214/1562, 25-27=-150/2001, 24-25=-150/2001, 23-24=-169/2227, 20-21=-169/2403,  
 19-20=-105/1870, 18-19=-177/2136, 14-16=-105/1189  
 WEBS 4-27=-65/777, 5-27=-791/1111, 5-24=-54/409, 6-24=-289/99, 6-23=-1186/206,  
 7-23=-344/0, 21-23=-46/1982, 7-21=-207/2186, 9-21=-1060/168, 9-20=-563/125,  
 10-20=-105/856, 10-19=-17/408, 11-19=-381/108, 11-18=-75/794, 16-18=-107/1403,  
 13-18=-131/1506, 13-16=-976/95

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCDL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=119, 14=108.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

**TRENCO**  
ENGINEERING BY  
A MiTek Affiliate

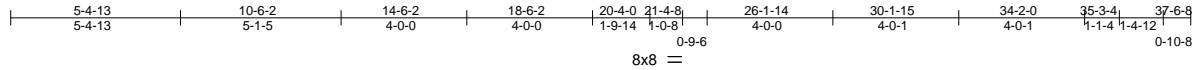
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516114
COMAS_JOB	R5D	Roof Special	1	1	

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:42 2019 Page 1

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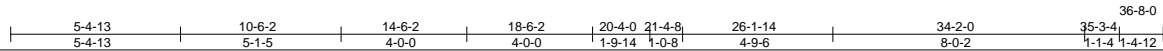
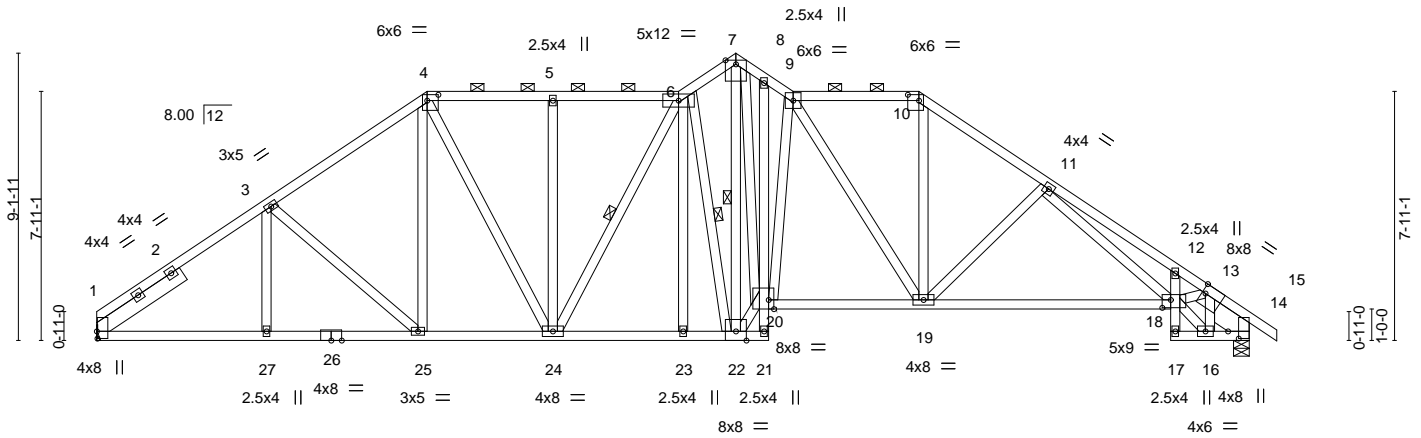


Plate Offsets (X,Y)-- [1:0-2-12,0-0-4], [4:0-4-4,0-2-4], [10:0-4-4,0-2-4], [13:0-1-4,Edge], [14:0-2-12,0-4-1], [18:0-3-4,0-3-0], [20:0-2-0,Edge]

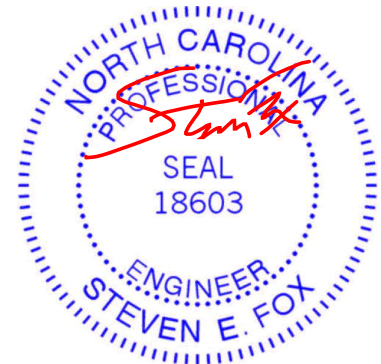
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.90 BC 0.74 WB 0.91 Matrix-S	in (loc) l/defl L/d Vert(LL) -0.17 19-20 >999 240 Vert(TL) -0.51 18-19 >867 180 Horz(TL) 0.27 14 n/a n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr YES				
BCLL 0.0 *	Code IBC2012/TPI2007				
BCDL 10.0				Weight: 236 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-3-4 max.): 4-6, 9-10.
BOT CHORD 2x4 SPF No.2 *Except* 12-17: 2x4 SPF Stud	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-21.
WEBS 2x4 SPF Stud *Except*	WEBS 1 Row at midpt 6-24, 6-22, 7-22
SLIDER 4-25,4-24,5-24,6-24,6-23,6-22,7-22,7-20,9-19: 2x4 SPF No.2 Left 2x6 SPF 1650F 1.5E 3-3-12, Right 2x8 SP No.1 1-5-12	

**REACTIONS.** (lb/size) 1=1466/Mechanical, 14=1520/0-6-0  
Max Horz 1=170(LC 7)  
Max Uplift 1=-119(LC 10), 14=-108(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-3=-2139/259, 3-4=-1820/293, 4-5=-1700/308, 5-6=-1699/308, 6-7=-1840/343,  
7-8=-2011/367, 8-9=-2194/368, 9-10=-1676/277, 10-11=-2117/301, 11-12=-3308/398,  
12-13=-3171/328, 13-14=-1868/201  
BOT CHORD 1-27=-186/1617, 25-27=-186/1617, 24-25=-95/1458, 23-24=-96/1758, 22-23=-95/1756,  
19-20=-102/1929, 18-19=-164/2006, 14-16=-102/1186  
WEBS 3-25=-252/118, 4-25=-23/276, 4-24=-69/520, 5-24=-252/107, 6-22=-947/184,  
7-22=-274/0, 20-22=-63/2046, 7-20=-198/2101, 9-20=-973/192, 9-19=-479/98,  
10-19=-77/889, 11-19=-434/150, 11-18=-88/994, 16-18=-87/1420, 13-18=-138/1535,  
13-16=-984/83

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCDL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=119, 14=108.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

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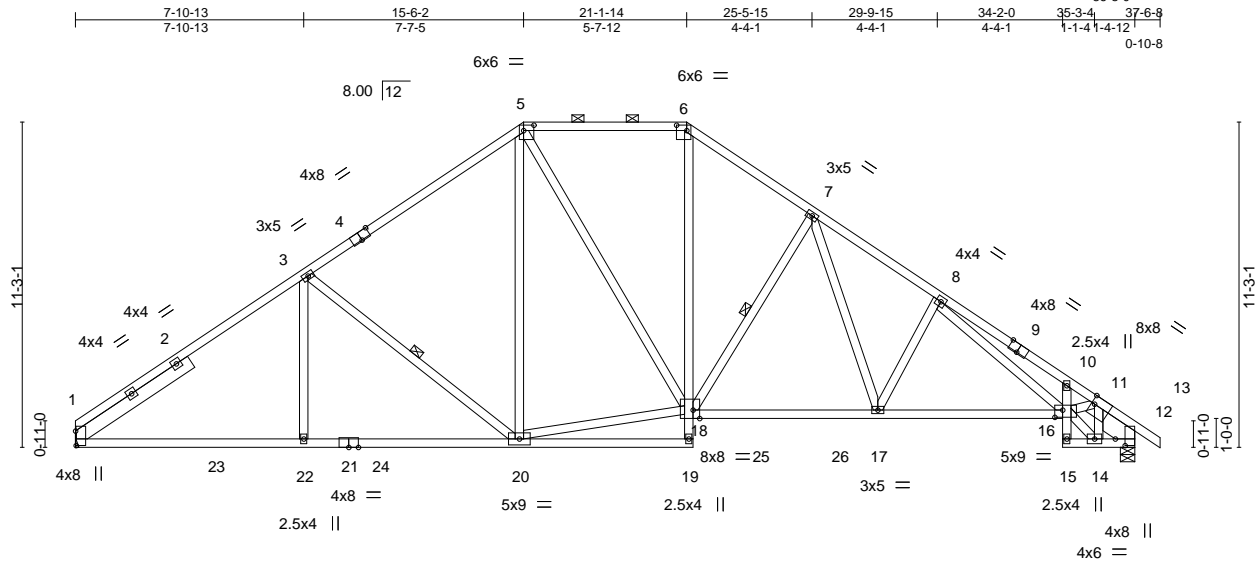
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
COMAS_JOB	R5F	Hip	1	1	

I37516116

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:44 2019 Page 1

ID:Gbs5d2EBwvghszRMqhXgz5S1p-XWPH5m8b8TDkuUjdu?8vyYCNQHDAOg86tdeSEOz4MPR



Scale = 1:79.7

Plate Offsets (X, Y)--	[1:0-6-1,0-0-4], [4:0-4-0,Edge], [5:0-4-4,0-2-4], [6:0-4-4,0-2-4], [9:0-4-0,Edge], [11:0-1-4,Edge], [12:0-2-12,0-4-1], [16:0-3-4,0-3-0], [18:0-2-12,Edge]
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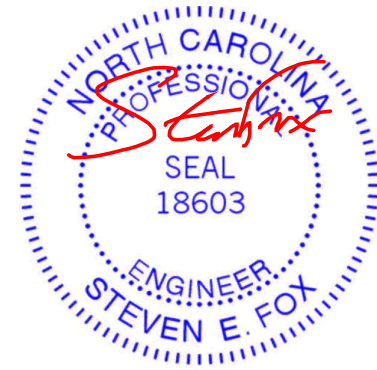
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.82 BC 0.68 WB 0.66 Matrix-S	in (loc) l/defl L/d Vert(LL) -0.15 17-18 >999 240 Vert(TL) -0.38 17-18 >999 180 Horz(TL) 0.21 12 n/a n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr YES				
BCLL 0.0 *	Code IBC2012/TPI2007				
BCDL 10.0				Weight: 200 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 4-5: 2x4 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-8-2 max.): 5-6.
BOT CHORD 2x4 SPF No.2 *Except* 10-15: 2x4 SPF Stud	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 19-20.
WEBS 2x4 SPF Stud *Except* 3-20,5-20,5-18,7-18,7-17: 2x4 SPF No.2	WEBS 1 Row at midpt 3-20, 7-18
SLIDER Left 2x6 SPF 1650F 1.5E 4-9-12, Right 2x8 SP No.1 1-5-12	

**REACTIONS.** (lb/size) 1=1466/Mechanical, 12=1520/0-6-0  
Max Horz 1=212(LC 7)  
Max Uplift 1=-79(LC 10), 12=-95(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-3=-2094/250, 3-5=-1604/288, 5-6=-1324/287, 6-7=-1675/309, 7-8=-2237/317,  
8-10=-3296/411, 10-11=-3157/320, 11-12=-1865/191  
BOT CHORD 1-22=-136/1725, 20-22=-136/1725, 6-18=-69/647, 17-18=-54/1623, 16-17=-136/1988,  
12-14=-94/1182  
WEBS 3-22=0/367, 3-20=-644/193, 5-20=-38/344, 18-20=0/1219, 7-18=-613/168, 7-17=-49/617,  
8-17=-417/153, 8-16=-133/985, 14-16=-87/1387, 11-16=-141/1536, 11-14=-964/82

- NOTES-**
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	137516117
COMAS_JOB	R6	Piggyback Base	2	1	Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:45 2019 Page 1  
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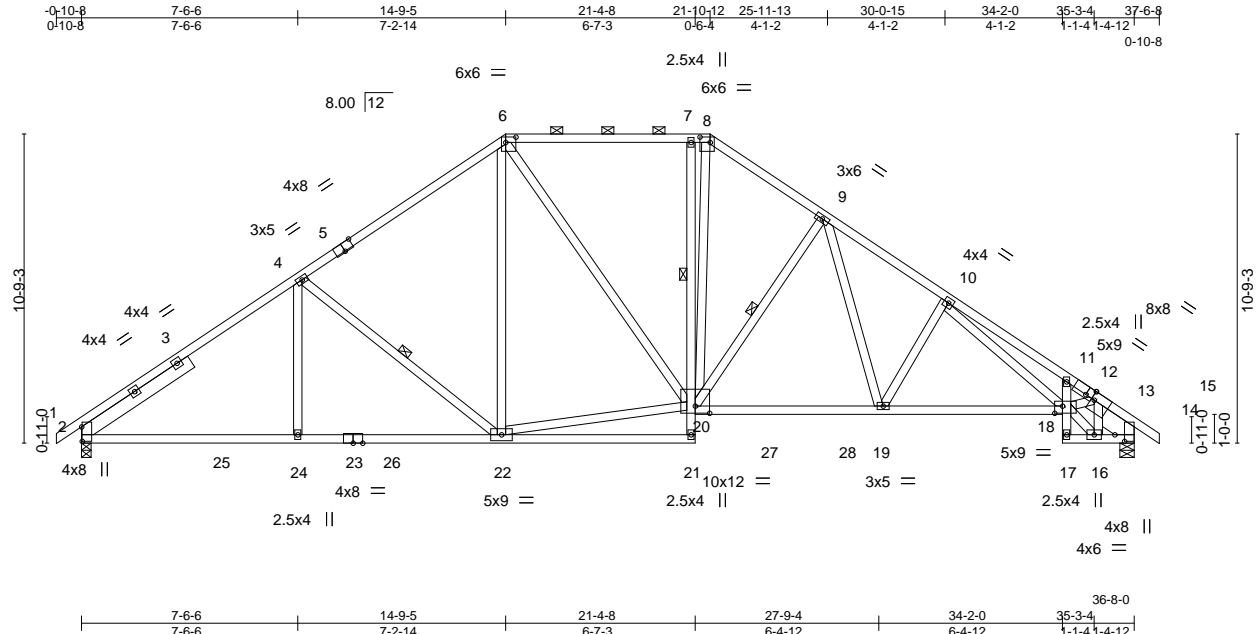


Plate Offsets (X, Y)--	[2:0-6-1,0-0-4], [5:0-4-0,Edge], [6:0-4-4,0-2-4], [8:0-4-4,0-2-4], [12:0-3-1,Edge], [13:0-1-4,Edge], [14:0-2-12,0-4-1], [18:0-3-4,0-3-0], [20:0-6-0,0-3-0]
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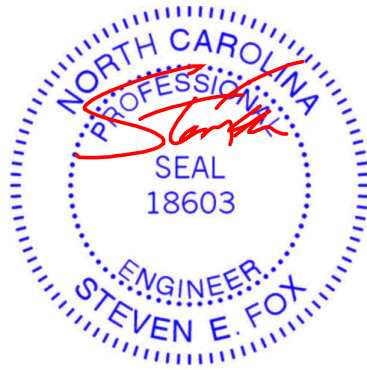
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.94 BC 0.68 WB 0.66 Matrix-S	in (loc) l/defl L/d Vert(LL) -0.15 19-20 >999 240 Vert(TL) -0.38 19-20 >999 180 Horz(TL) 0.21 14 n/a n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr YES				
BCLL 0.0 *	Code IBC2012/TPI2007				
BCDL 10.0				Weight: 209 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SPF No.2 *Except* 11-17: 2x4 SPF Stud	BOT CHORD Rigid ceiling directly applied or 10'-0'-0" oc bracing, Except:
WEBS 2x4 SPF Stud *Except*	6'-0'-0" oc bracing: 21-22.
SLIDER Left 2x6 SPF 1650F 1.5E 4-7-1, Right 2x8 SP No.1 1-5-12	WEBS 1 Row at midpt 7-20 1 Row at midpt 4-22, 9-20

**REACTIONS.** (lb/size) 2=1519/0-4-0, 14=1519/0-6-0  
 Max Horz 2=202(LC 7)  
 Max Uplift 2=91(LC 10), 14=91(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-2097/252, 4-6=-1642/288, 6-7=-1398/293, 7-8=-1396/290, 8-9=-1679/303,  
 9-10=-2237/313, 10-11=-3281/406, 11-13=-3155/322, 13-14=-1865/193  
 BOT CHORD 2-24=-128/1687, 22-24=-128/1687, 7-20=-269/192, 19-20=-62/1653, 18-19=-143/2008,  
 14-16=-97/1183  
 WEBS 4-24=0/331, 4-22=-586/185, 6-22=-29/348, 20-22=-11/1221, 6-20=-85/263,  
 8-20=-152/815, 9-20=-597/153, 9-19=-38/593, 10-19=-411/146, 10-18=-122/954,  
 16-18=-91/1391, 13-18=-139/1528, 13-16=-967/85

- NOTES-**
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

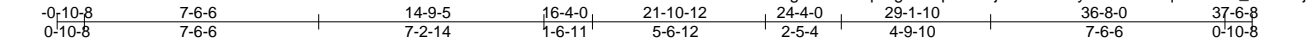
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	137516118
COMAS_JOB	R7	Piggyback Base	2	1	Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

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ID:Gbs5d2EBwvghhszRMqhXgz5S1p-x55PjoAURObjlySBA7hcaAqtaUBeb2\_YZbs6rjz4MPo



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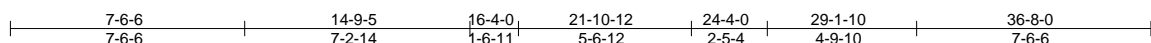
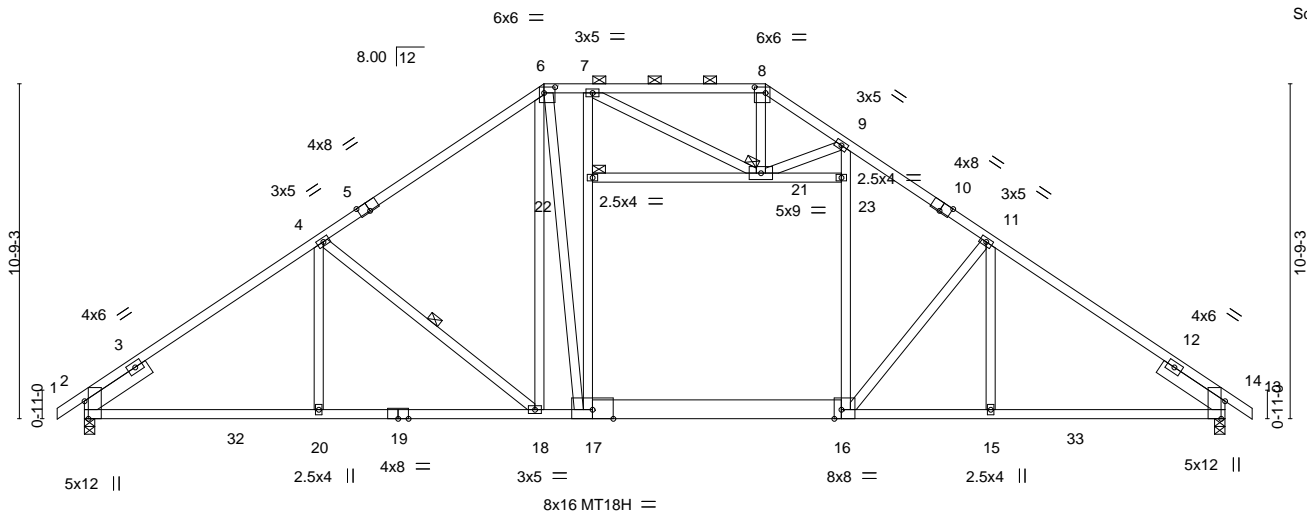


Plate Offsets (X, Y)--	[2:0-6-13,Edge], [5:0-4-0,Edge], [6:0-4-4,0-2-4], [8:0-4-4,0-2-4], [10:0-4-0,Edge], [13:0-6-13,Edge], [16:0-2-12,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.89 BC 0.95 WB 0.59	in (loc) l/defl L/d Vert(LL) 0.31 15-16 >999 240 Vert(TL) -0.60 15-16 >729 180 Horz(TL) 0.12 13 n/a n/a	MT20 MT18H	197/144 197/144
TCDL 10.0	Rep Stress Incr YES	Matrix-MS			
BCLL 0.0 *	Code IBC2012/TPI2007				
BCDL 10.0				Weight: 214 lb	FT = 20%

**LUMBER-**

TOP CHORD	2x4 SPF No.2 *Except* 1-5,10-14: 2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF No.2 *Except* 17-19: 2x4 SPF 1650F 1.5E, 16-17: 2x8 SP No.1
WEBS	2x4 SPF No.2 *Except* 4-20,8-21,11-16,11-15,9-21,7-21: 2x4 SPF Stud
SLIDER	Left 2x6 SPF 1650F 1.5E 2-6-0, Right 2x6 SPF 1650F 1.5E 2-6-0

**BRACING-**

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-2-11 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 2-20.
WEBS	1 Row at midpt 4-18
JOINTS	1 Brace at Jt(s): 21, 22

**REACTIONS.** (lb/size) 2=1519/0-4-0, 13=1519/0-4-0

Max Horz 2=-202(LC 8)

Max Uplift 2=-91(LC 10), 13=-91(LC 11)

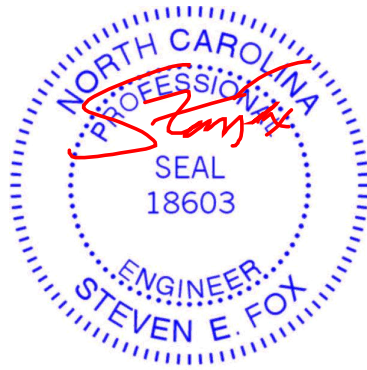
Max Grav 2=1576(LC 18), 13=1562(LC 19)

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

TOP CHORD	2-4=-2152/258, 4-6=-1715/289, 6-7=-1423/307, 7-8=-982/251, 8-9=-1172/270, 9-11=-1808/286, 11-13=-2117/260
BOT CHORD	2-20=-134/1814, 18-20=-134/1814, 17-18=0/1362, 16-17=-1/1435, 15-16=-100/1677, 13-15=-100/1677
WEBS	4-20=0/293, 4-18=-570/186, 6-18=-171/318, 6-17=-300/756, 8-21=-60/446, 11-16=-492/208, 16-23=0/430, 9-23=0/432, 9-21=-689/101, 7-21=-487/54

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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**ENGINEERING BY**  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516119
COMAS_JOB	R8A	Piggyback Base	1	1	

84 Components (Dunn), Dunn, NC - 28334,

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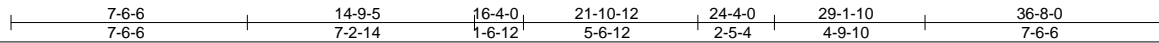
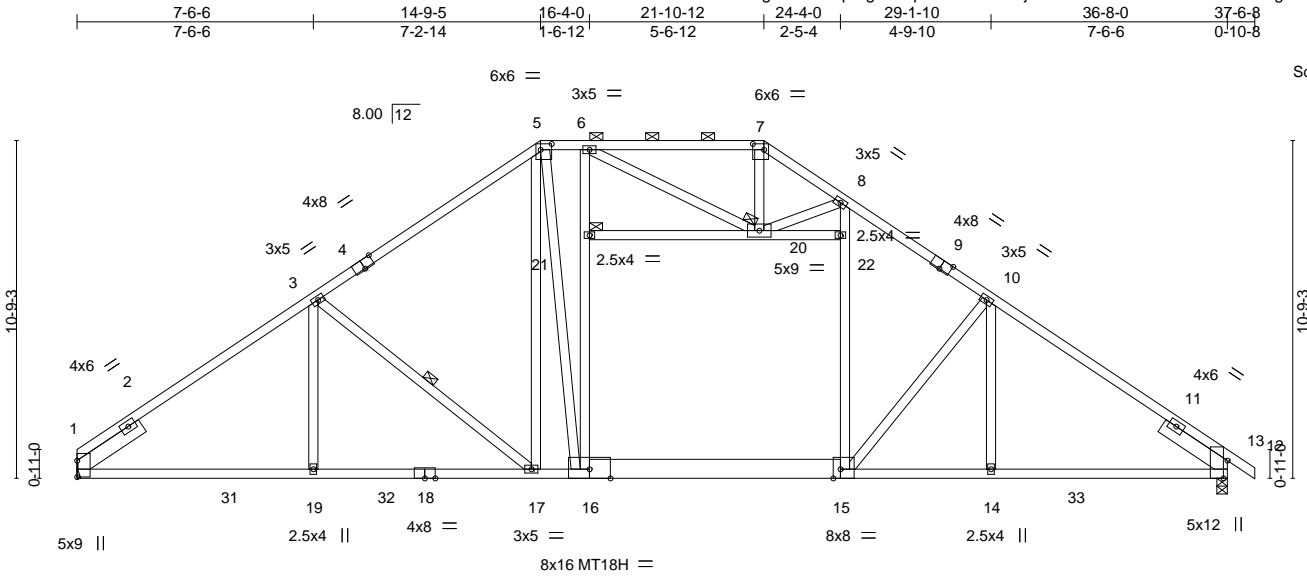


Plate Offsets (X, Y)-- [4:0-4-0,Edge], [5:0-4-4,0-2-4], [7:0-4-4,0-2-4], [9:0-4-0,Edge], [12:0-6-13,Edge], [15:0-2-12,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2012/TPI2007	TC 0.89 BC 0.94 WB 0.59 Matrix-MS	in (loc) l/defl L/d Vert(LL) 0.31 14-15 >999 240 Vert(TL) -0.60 14-15 >729 180 Horz(TL) 0.12 12 n/a n/a	MT20 197/144 MT18H 197/144 Weight: 213 lb FT = 20%	

**LUMBER-**

TOP CHORD	2x4 SPF No.2 *Except* 1-4,9-13: 2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF No.2 *Except* 16-18: 2x4 SPF 1650F 1.5E, 15-16: 2x8 SP No.1
WEBS	2x4 SPF No.2 *Except* 3-19,7-20,10-15,10-14,8-20,6-20: 2x4 SPF Stud
SLIDER	Left 2x6 SPF 1650F 1.5E 2-6-0, Right 2x6 SPF 1650F 1.5E 2-6-0

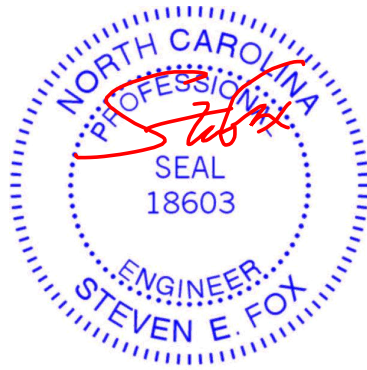
**BRACING-**

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-2-11 max.): 5-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 1-19.
WEBS	1 Row at midpt 3-17
JOINTS	1 Brace at Jt(s): 20, 21

**REACTIONS.** (lb/size) 1=1466/Mechanical, 12=1520/0-4-0  
Max Horz 1=-199(LC 6)  
Max Uplift 1=-76(LC 10), 12=-91(LC 11)  
Max Grav 1=1523(LC 2), 12=1560(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-3=-2146/259, 3-5=-1711/289, 5-6=-1420/307, 6-7=-981/251, 7-8=-1170/270,  
8-10=-1805/286, 10-12=-2114/261  
BOT CHORD 1-19=-134/1810, 17-19=-134/1810, 16-17=0/1359, 15-16=-2/1432, 14-15=-100/1675,  
12-14=-100/1675  
WEBS 3-19=0/288, 3-17=-570/186, 5-17=-171/319, 5-16=-300/764, 7-20=-61/445,  
10-15=-493/208, 15-22=0/429, 8-22=0/431, 8-20=-688/101, 6-20=-485/54

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - 4) Provide adequate drainage to prevent water ponding.
  - 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, with BCDL = 10.0psf.
  - 8) Refer to girder(s) for truss to truss connections.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516120
COMAS_JOB	R8B	Hip	1	1	

84 Components (Dunn), Dunn, NC - 28334,

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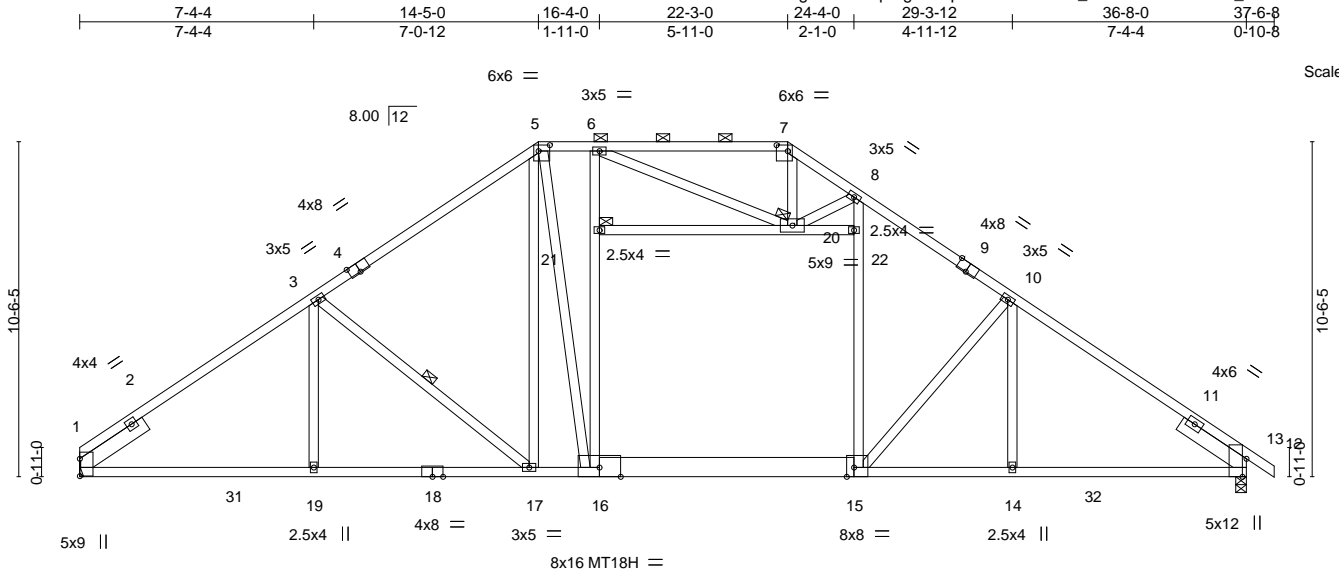


Plate Offsets (X, Y)--	[4:0-4-0,Edge], [5:0-4-0,0-2-4], [7:0-4-4,0-2-4], [9:0-4-0,Edge], [12:0-6-13,Edge], [15:0-2-12,Edge]
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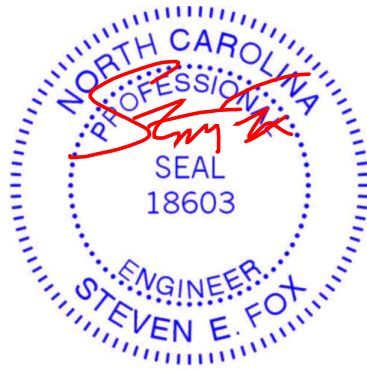
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.99 BC 0.96 WB 0.51 Matrix-MS	in (loc) l/defl L/d Vert(LL) 0.28 14-15 >999 240 Vert(TL) -0.54 14-15 >819 180 Horz(TL) 0.13 12 n/a n/a	MT20 197/144 MT18H 197/144	Weight: 211 lb FT = 20%
TCDL 10.0	Rep Stress Incr YES				
BCLL 0.0 *	Code IBC2012/TPI2007				
BCDL 10.0					

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-2-15 max.): 5-7.
BOT CHORD 2x4 SPF No.2 *Except* 15-16: 2x8 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 16-17.
WEBS 2x4 SPF No.2 *Except* 3-19,7-20,10-15,10-14,8-20,6-20: 2x4 SPF Stud	WEBS 1 Row at midpt 3-17
SLIDER Left 2x6 SPF 1650F 1.5E 2-6-0, Right 2x6 SPF 1650F 1.5E 2-6-0	JOINTS 1 Brace at Jt(s): 20, 21

**REACTIONS.** (lb/size) 1=1466/Mechanical, 12=1520/0-4-0  
 Max Horz 1=-194(LC 8)  
 Max Uplift 1=-74(LC 10), 12=-89(LC 11)  
 Max Grav 1=1466(LC 1), 12=1536(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-2050/260, 3-5=-1679/290, 5-6=-1406/306, 6-7=-953/246, 7-8=-1192/276,  
 8-10=-1781/287, 10-12=-2080/261  
 BOT CHORD 1-19=-130/1723, 17-19=-130/1723, 16-17=-9/1325, 15-16=-6/1416, 14-15=-102/1649,  
 12-14=-102/1649  
 WEBS 3-19=0/253, 3-17=-502/181, 5-17=-125/328, 5-16=-264/673, 7-20=-64/458,  
 10-15=-471/203, 15-22=0/442, 8-22=0/445, 8-20=-654/93, 6-20=-488/59

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - 4) Provide adequate drainage to prevent water ponding.
  - 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, with BCDL = 10.0psf.
  - 8) Refer to girder(s) for truss to truss connections.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

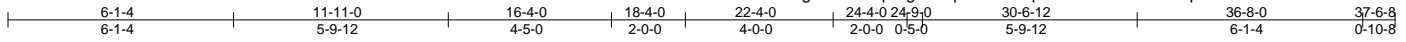
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	137516121
COMAS_JOB	R8C	Hip	1	1	Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:50 2019 Page 1

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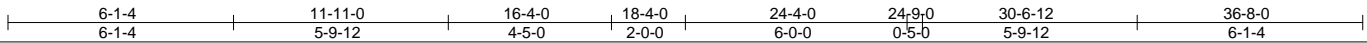
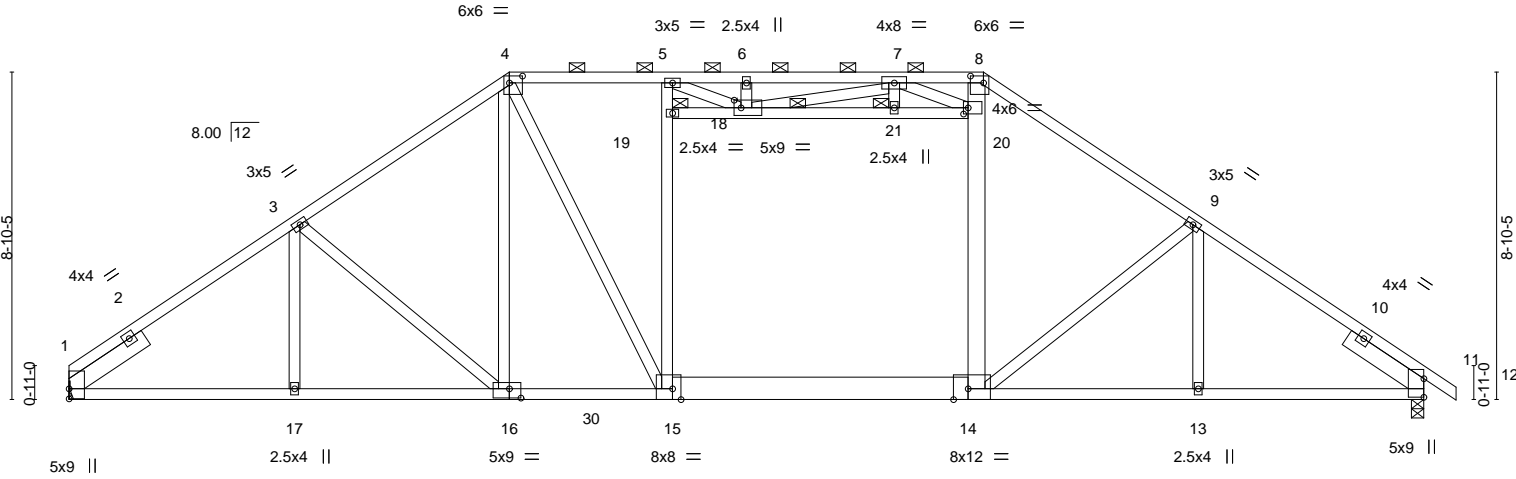


Plate Offsets (X,Y)-- [4:0-4-4,0-2-4], [8:0-4-4,0-2-4], [14:0-4-12,Edge], [15:0-2-12,Edge], [16:0-3-12,0-3-0], [18:0-2-4,0-2-8], [20:0-1-8,0-2-0]

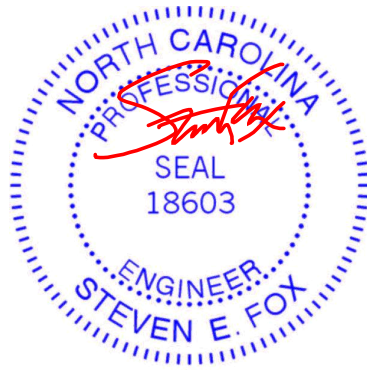
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2012/TPI2007	TC 0.78 BC 0.99 WB 0.50 Matrix-MS	in (loc) l/defl L/d Vert(LL) 0.29 15-16 >999 240 Vert(TL) -0.64 15-16 >693 180 Horz(TL) 0.14 11 n/a n/a	MT20	197/144
TCDL 10.0				Weight: 205 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-4-8 oc purlins, except 2-0-0 oc purlins (4-0-13 max.): 4-8.
BOT CHORD 2x4 SPF No.2 *Except* 14-15: 2x8 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 11-13.
WEBS 2x4 SPF Stud *Except* 4-16,4-15,9-14,5-15,19-20: 2x4 SPF No.2, 8-14: 2x6 SPF 1650F 1.5E	JOINTS 1 Brace at Jt(s): 18, 19, 21
SLIDER Left 2x6 SPF 1650F 1.5E 2-6-0, Right 2x6 SPF 1650F 1.5E 2-6-0	

**REACTIONS.** (lb/size) 1=1466/Mechanical, 11=1520/0-4-0  
Max Horz 1=-162(LC 8)  
Max Uplift 1=-58(LC 10), 11=-74(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-3=-2024/264, 3-4=-1783/297, 4-5=-1519/301, 5-6=-1860/429, 6-7=-1860/429,  
7-8=-957/248, 8-9=-1792/294, 9-11=-2009/261  
BOT CHORD 1-17=-121/1605, 16-17=-121/1605, 15-16=-72/1403, 14-15=-44/1501, 13-14=-119/1591,  
11-13=-119/1591  
WEBS 3-16=-301/148, 4-16=-44/444, 4-15=-146/252, 9-14=-294/167, 14-20=0/479,  
8-20=-48/545, 5-18=-157/261, 7-18=-222/440, 7-20=-601/300

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCDL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - 4) Provide adequate drainage to prevent water ponding.
  - 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) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

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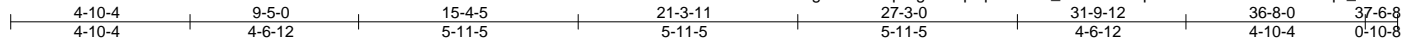
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516122
COMAS_JOB	R8D	Hip	1	1	Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:51 2019 Page 1

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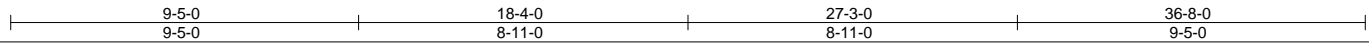
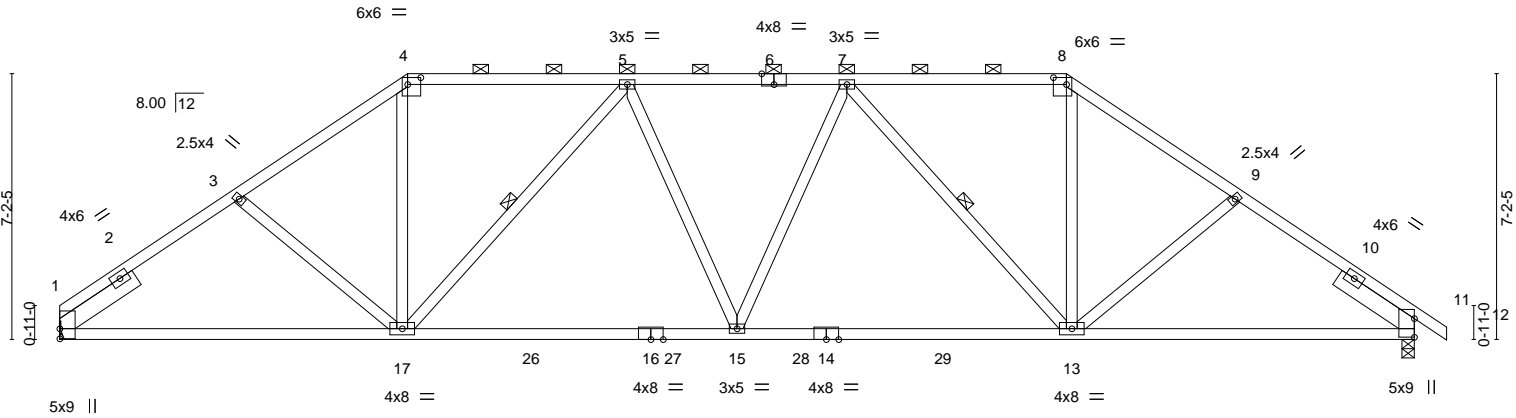


Plate Offsets (X,Y)-- [4:0-4-4,0-2-4], [6:0-4-0,Edge], [8:0-4-4,0-2-4]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.74 BC 0.77 WB 0.31	in (loc) l/defl L/d Vert(LL) -0.25 13-15 >999 240 Vert(TL) -0.55 13-15 >798 180 Horz(TL) 0.15 11 n/a n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr YES	Matrix-MS			
BCLL 0.0 *	Code IBC2012/TPI2007				
BCDL 10.0				Weight: 163 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2 \*Except\*  
 14-16: 2x4 SPF 1650F 1.5E  
 WEBS 2x4 SPF No.2 \*Except\*  
 3-17,4-17,8-13,9-13: 2x4 SPF Stud  
 SLIDER Left 2x6 SPF 1650F 1.5E 2-6-0, Right 2x6 SPF 1650F 1.5E 2-6-0

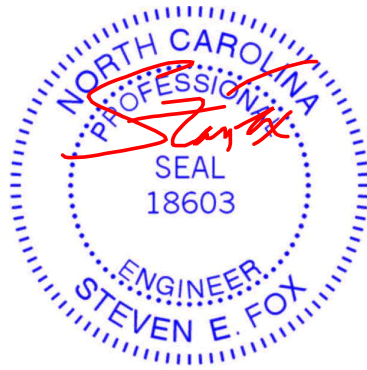
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-8-1 oc purlins, except 2-0-0 oc purlins (3-11-10 max.): 4-8.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 5-17, 7-13

**REACTIONS.** (lb/size) 1=1466/Mechanical, 11=1520/0-4-0  
 Max Horz 1=-130(LC 8)  
 Max Uplift 1=-40(LC 10), 11=-55(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-2019/293, 3-4=-1876/284, 4-5=-1503/271, 5-7=-1984/323, 7-8=-1501/270,  
 8-9=-1873/283, 9-11=-2015/292  
 BOT CHORD 1-17=-150/1593, 15-17=-151/1915, 13-15=-141/1914, 11-13=-149/1588  
 WEBS 4-17=-43/720, 5-17=-648/163, 7-13=-650/162, 8-13=-43/718

**NOTES-**

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

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818 Soundside Road  
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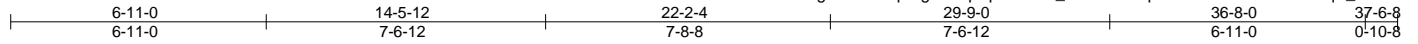


Job	Truss	Truss Type	Qty	Ply	137516123
COMAS_JOB	R8E	Hip	1	1	

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:51 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-qsKwZ9D\_Vd5kDZmzpmYk0?ZN6aJXut8UDqK\_Uz4MPk



Scale = 1:62.4

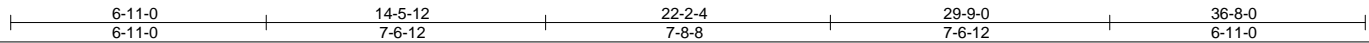
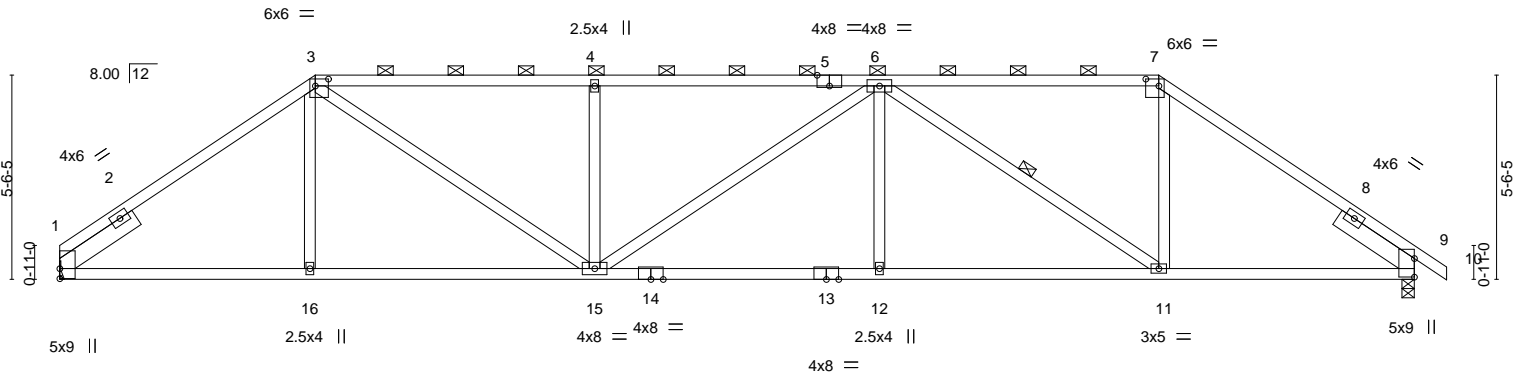


Plate Offsets (X,Y)-- [3:0-4-4,0-2-4], [5:0-4-0,Edge], [7:0-4-4,0-2-4]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.84 BC 0.78 WB 0.47	in (loc) l/defl L/d Vert(LL) -0.16 12 >999 240 Vert(TL) -0.49 11-12 >897 180 Horz(TL) 0.18 9 n/a n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr YES	Matrix-MS			
BCLL 0.0 *	Code IBC2012/TPI2007				
BCDL 10.0				Weight: 150 lb	FT = 20%

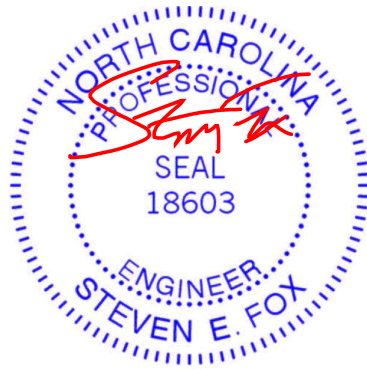
**LUMBER-**  
TOP CHORD 2x4 SPF 1650F 1.5E \*Except\*  
5-7: 2x4 SPF No.2  
BOT CHORD 2x4 SPF No.2  
WEBS 2x4 SPF Stud \*Except\*  
3-15,6-15,6-11: 2x4 SPF No.2  
SLIDER Left 2x6 SPF 1650F 1.5E 2-6-0, Right 2x6 SPF 1650F 1.5E 2-6-0

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-3-3 oc purlins, except 2-0-0 oc purlins (2-11-12 max.): 3-7.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 6-11

**REACTIONS.** (lb/size) 1=1466/Mechanical, 9=1520/0-4-0  
Max Horz 1=-97(LC 8)  
Max Uplift 1=-70(LC 7), 9=-74(LC 6)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-3=-2026/277, 3-4=-2533/396, 4-6=-2533/396, 6-7=-1570/273, 7-9=-2023/276  
BOT CHORD 1-16=-155/1594, 15-16=-158/1591, 12-15=-239/2532, 11-12=-239/2532, 9-11=-115/1591  
WEBS 3-15=-199/1146, 4-15=-490/185, 6-12=0/319, 6-11=-1163/201, 7-11=-10/754

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCDL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - 3) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 21, 2019

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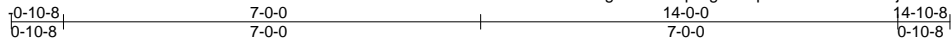
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
COMAS_JOB	R9G	Common Supported Gable	1	1	137516124

84 Components (Dunn), Dunn, NC - 28334,

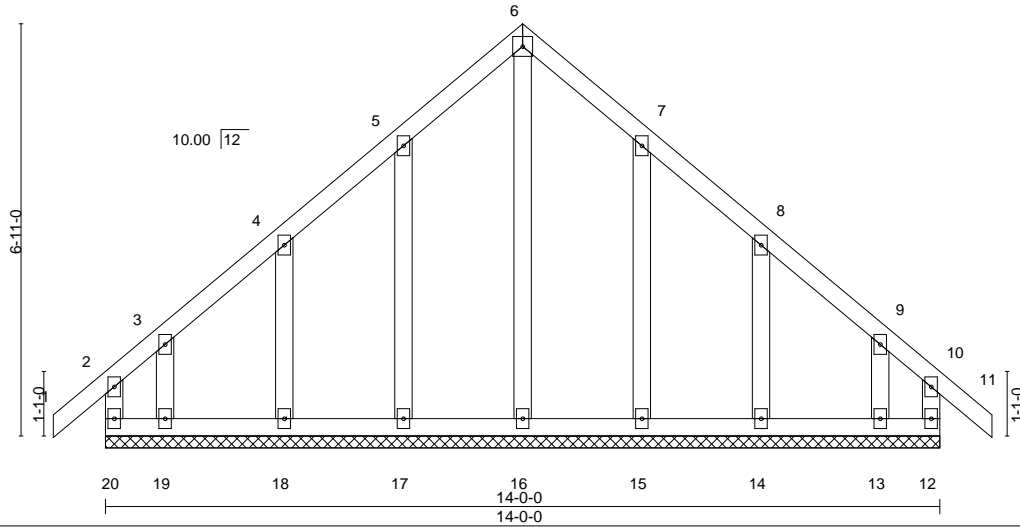
8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:52 2019 Page 1

ID:Gbs5d2EBwvlgHhszRMqhXgz5S1p-l2ulmVEcGwDbrjK9MhHnHEYwaV6uGQ?ljtatWwz4MPj



4x4 =

Scale = 1:38.7



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) 0.00 10 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.16	Vert(TL) 0.00 10 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(TL) 0.00 12 n/a n/a		
	Code IBC2012/TPI2007			Weight: 69 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF Stud  
 OTHERS 2x4 SPF Stud

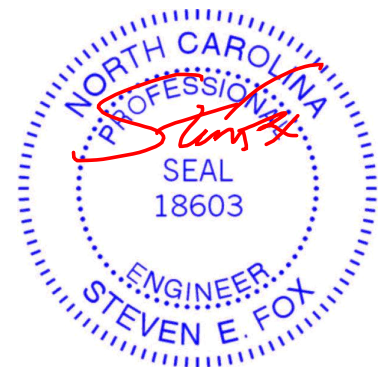
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** All bearings 14-0-0.  
 (lb) - Max Horz 20=-152(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 12, 17, 18, 15, 14 except 20=-112(LC 6), 19=-117(LC 10), 13=-110(LC 11)  
 Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. 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.
- 3) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) All plates are 2.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 17, 18, 15, 14 except (jt=lb) 20=112, 19=117, 13=110.



June 21, 2019

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Job	Truss	Truss Type	Qty	Ply	
COMAS_JOB	R9X	Common Girder	1	2	I37516125

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:54 2019 Page 2  
 ID:Gbs5d2EBwvghhszRMqhXgz5S1p-ER02BBGtoYUJ50UYU5JFMfd5JHbjDhaAB3\_bpz4MPH

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-5=-60, 5-8=-60, 2-8=-20

Concentrated Loads (lb)

Vert: 9=-1446(B) 12=-1443(B) 13=-1446(B) 14=-1446(B) 15=-1446(B) 16=-1446(B)

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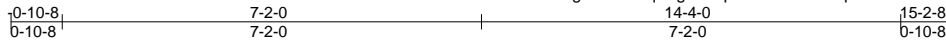
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516126
COMAS_JOB	R10G	Common Supported Gable	1	1	Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

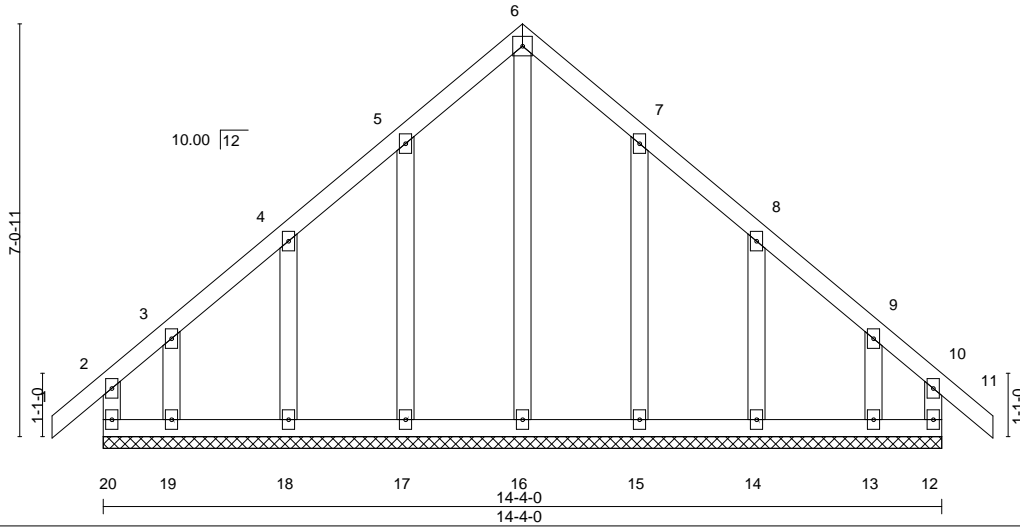
8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:25 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-asm56GvhddqQ6ZmzHWiShXwJOduZRC7JVAXy4\_z4MQ8



4x4 =

Scale = 1:39.4



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) 0.00 10 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Vert(TL) -0.00 10 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(TL) 0.00 12 n/a n/a		
	Code IBC2012/TPI2007			Weight: 71 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF Stud  
 OTHERS 2x4 SPF Stud

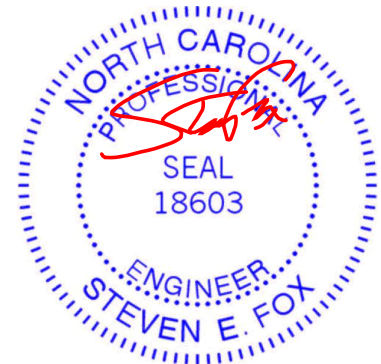
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** All bearings 14-4-0.  
 (lb) - Max Horz 20=-154(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 12, 17, 18, 15, 14 except 20=-102(LC 6), 19=-111(LC 10), 13=-105(LC 11)  
 Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. 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.
- 3) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 14.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) All plates are 2.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 17, 18, 15, 14 except (jt=lb) 20=102, 19=111, 13=105.



June 21, 2019

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Job	Truss	Truss Type	Qty	Ply	
COMAS_JOB	R10X	Common Girder	1	2	I37516127

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:26 2019 Page 2  
 ID:Gbs5d2EBwvghhszRMqhXgz5S1p-22JTJcwJOxyHkJL9rDphDITJ217?AYOTkqHvcQz4MQ7

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-8=-60, 1-7=-20

Concentrated Loads (lb)

Vert: 10=-1446(B) 12=-1447(B) 13=-1446(B) 14=-1446(B) 15=-1446(B) 16=-1860(B)

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Job	Truss	Truss Type	Qty	Ply	I37516128
COMAS_JOB	RD8	Hip Girder	1	1	

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:56 2019 Page 2

ID:Gbs5d2EBwvglhhszRMqhXgz5S1p-Ap7pctH7J9k1KKewbWMjR4iQX7K\_B2gtdVY5fhz4MPf

Job Reference (optional)

**NOTES-**

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 49 lb down and 42 lb up at 3-9-12, 52 lb down and 29 lb up at 5-9-12, 52 lb down and 29 lb up at 7-9-12, 52 lb down and 29 lb up at 9-9-12, 52 lb down and 29 lb up at 11-9-12, 52 lb down and 29 lb up at 13-9-12, 52 lb down and 29 lb up at 15-9-12, 52 lb down and 29 lb up at 17-9-12, 52 lb down and 29 lb up at 19-9-12, 52 lb down and 29 lb up at 21-9-12, 52 lb down and 29 lb up at 23-9-12, 52 lb down and 29 lb up at 25-9-12, 52 lb down and 29 lb up at 27-9-12, 52 lb down and 29 lb up at 29-9-12, and 48 lb down and 29 lb up at 31-9-12, and 10 lb down and 29 lb up at 33-9-12 on top chord, and 58 lb down and 59 lb up at 1-9-12, 58 lb down and 59 lb up at 3-9-12, 58 lb down and 59 lb up at 5-9-12, 58 lb down and 59 lb up at 7-9-12, 58 lb down and 59 lb up at 9-9-12, 58 lb down and 59 lb up at 11-9-12, 58 lb down and 59 lb up at 13-9-12, 58 lb down and 59 lb up at 15-9-12, 58 lb down and 59 lb up at 17-9-12, 58 lb down and 59 lb up at 19-9-12, 58 lb down and 59 lb up at 21-9-12, 58 lb down and 59 lb up at 23-9-12, 58 lb down and 59 lb up at 25-9-12, 58 lb down and 59 lb up at 27-9-12, 58 lb down and 59 lb up at 29-9-12, and 58 lb down and 59 lb up at 31-9-12, and 78 lb down and 66 lb up at 33-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-9=-60, 9-11=-60, 1-10=-20

Concentrated Loads (lb)

Vert: 17=-48(F) 18=-48(F) 13=-48(F) 35=-48(F) 36=-48(F) 37=-48(F) 38=-48(F) 39=-48(F) 40=-48(F) 41=-48(F) 42=-48(F) 43=-48(F) 44=-48(F) 45=-48(F) 46=-48(F) 47=-48(F) 48=-64(F)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



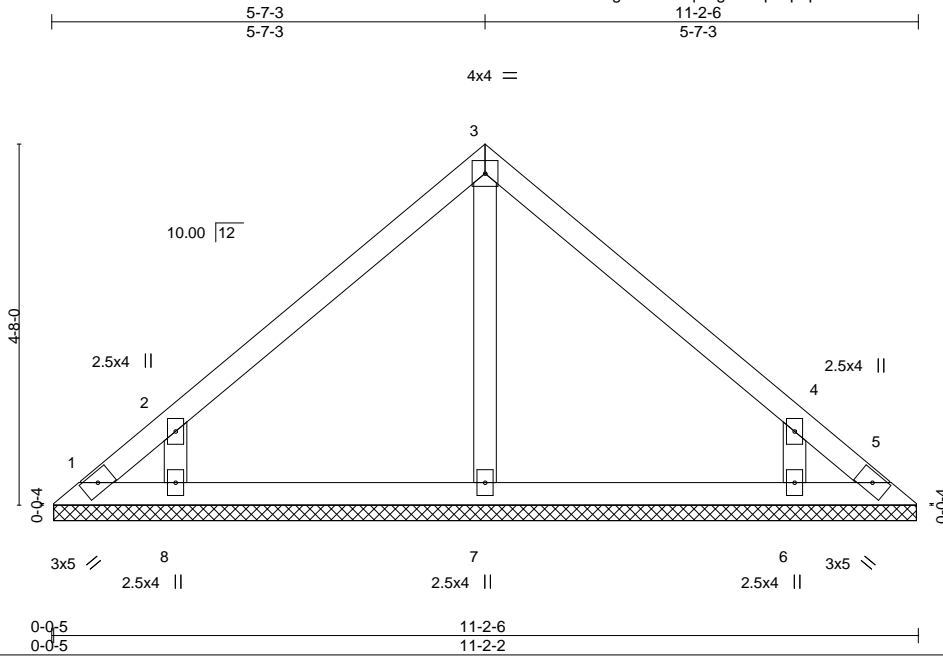
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516129
COMAS_JOB	V1	Valley	1	1	Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:56 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-Ap7pctH7J9k1KKewbWMjR4ib27S0BEQtdVY5fHz4MPf



Scale = 1:29.8

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2012/TPI2007	TC 0.14 BC 0.10 WB 0.06 Matrix-S	in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.00 5 n/a n/a	MT20	197/144
TCDL 10.0				Weight: 35 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

**LUMBER-**  
TOP CHORD 2x4 SPF No.2  
BOT CHORD 2x4 SPF No.2  
OTHERS 2x4 SPF Stud

**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 11-1-13.  
(lb) - Max Horz 1=84(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=127(LC 10), 6=127(LC 11)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=314(LC 17), 6=314(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-8=-255/174, 4-6=-255/174

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - 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) 1, 5 except (jt=lb) 8=127, 6=127.



June 21, 2019

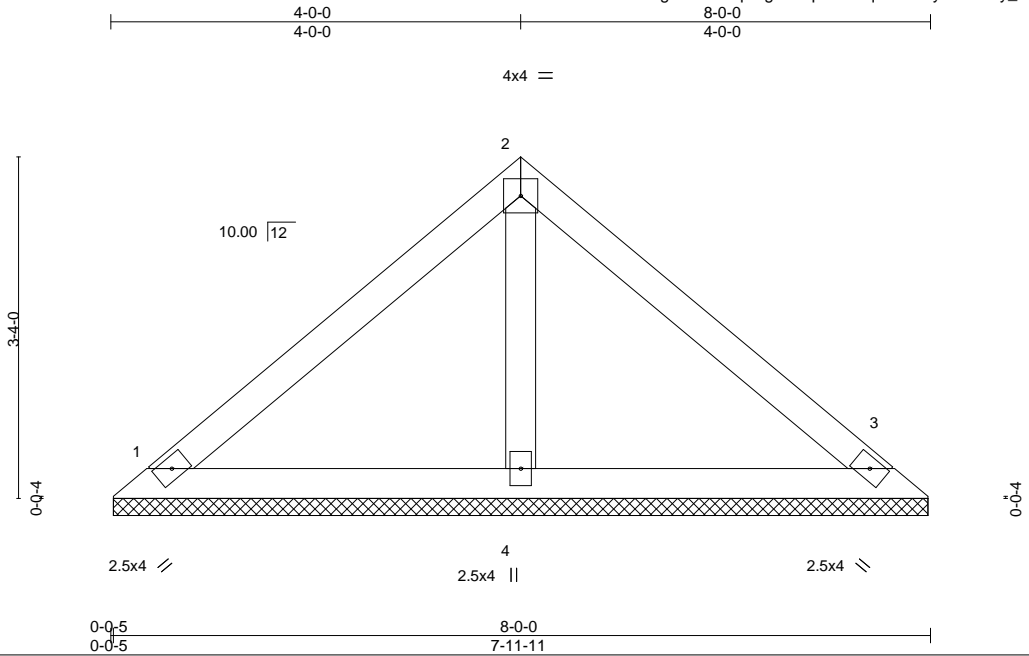
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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

Job	Truss	Truss Type	Qty	Ply	137516130
COMAS_JOB	V2	Valley	1	1	

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:57 2019 Page 1  
 ID:Gbs5d2EBwvghhszRMqhXgz5S1p-e0hBqDlI4TsuyUD69Ety\_HFIiWo7wi11s9HeC7z4MPe



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 3 n/a n/a		
	Code IBC2012/TPI2007			Weight: 23 lb	FT = 20%

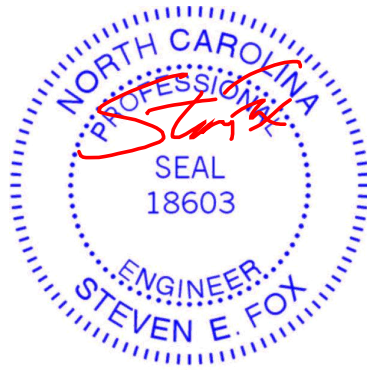
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SPF Stud	

**REACTIONS.** (lb/size) 1=167/7-11-6, 3=167/7-11-6, 4=242/7-11-6  
 Max Horz 1=58(LC 7)  
 Max Uplift 1=-26(LC 10), 3=-33(LC 11)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 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) 1, 3.



June 21, 2019

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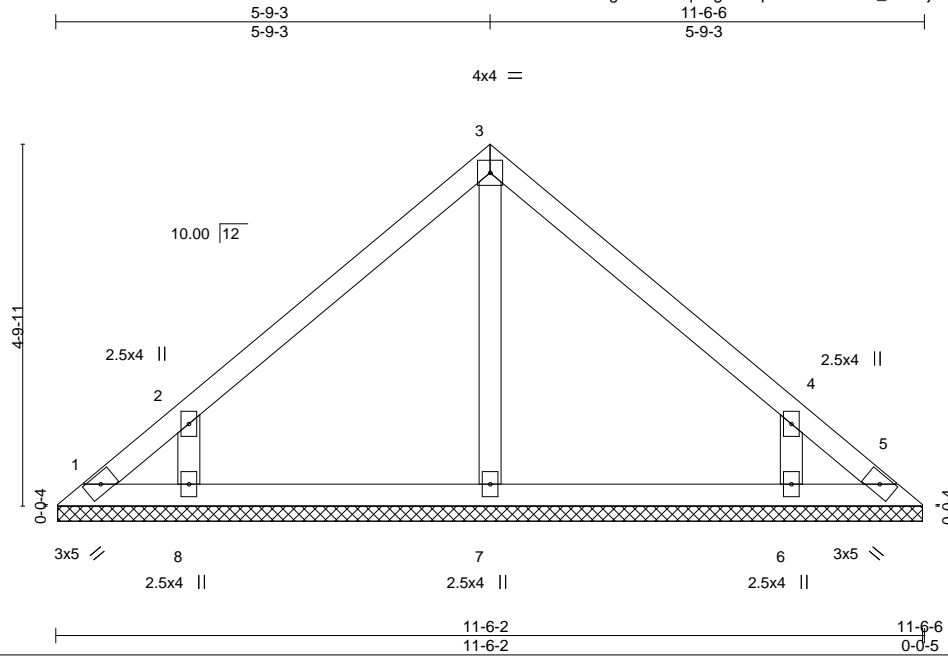
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
COMAS_JOB	V3	Valley	1	1	

I37516131

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:58 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-7CFZ1ZJNrm\_IZeojxOBWVoxYw8Tf8sA5p1Ckaz4MPd



Scale = 1:30.6

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IBC2012/TPI2007	TC 0.14 BC 0.10 WB 0.07 Matrix-S	in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.00 5 n/a n/a	MT20	197/144
TCDL 10.0				Weight: 36 lb	FT = 20%
BCLL 0.0 *					
BCDL 10.0					

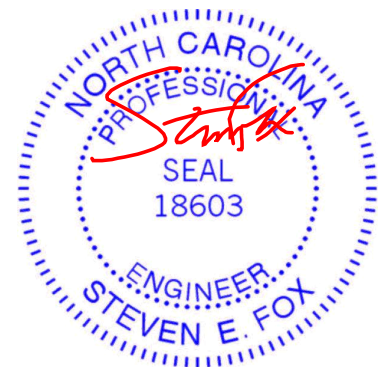
**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 OTHERS 2x4 SPF Stud

**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 11-5-13.  
 (lb) - Max Horz 1=87(LC 6)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=124(LC 10), 6=124(LC 11)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=309(LC 17), 6=308(LC 18)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
  - 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) 1, 5 except (jt=lb) 8=124, 6=124.



June 21, 2019

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	137516132
COMAS_JOB	V4	Valley	1	1	

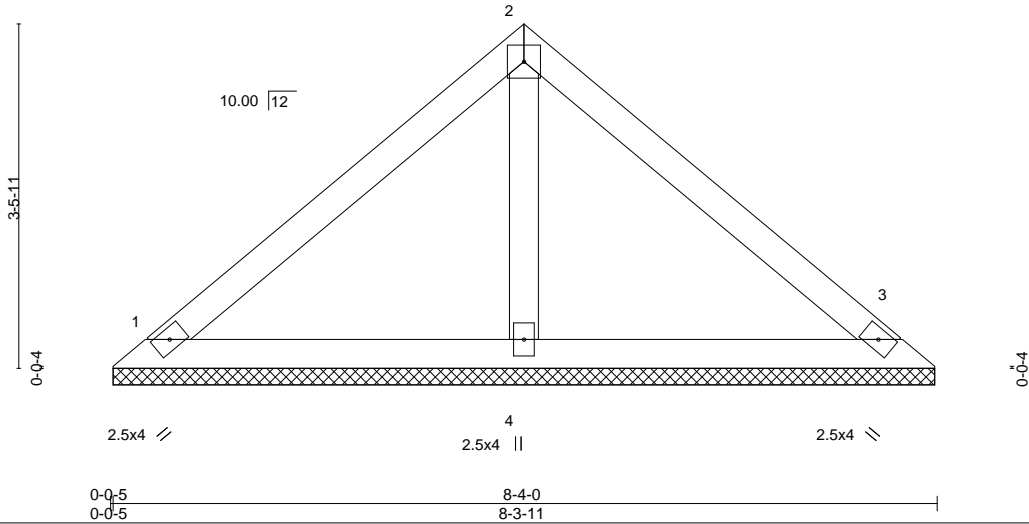
84 Components (Dunn), Dunn, NC - 28334, 8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:58 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-7CFZ1ZJNm\_IZeojxOBWVow6w8Bf9EA5p1Ckaz4MPd



4x4 =

Scale = 1:23.2



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0 (Roof Snow=20.0)	2-0-0	TC 0.23	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 24 lb	FT = 20%
	Code IBC2012/TPI2007							

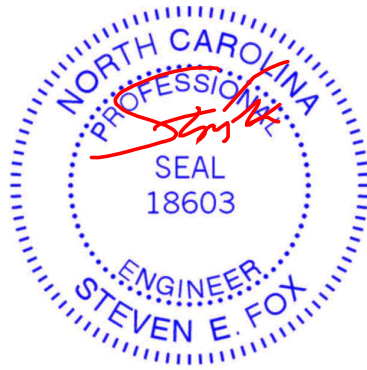
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SPF Stud	

**REACTIONS.** (lb/size) 1=175/8-3-6, 3=175/8-3-6, 4=253/8-3-6  
 Max Horz 1=-61(LC 6)  
 Max Uplift 1=-27(LC 10), 3=-35(LC 11)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 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) 1, 3.



June 21, 2019

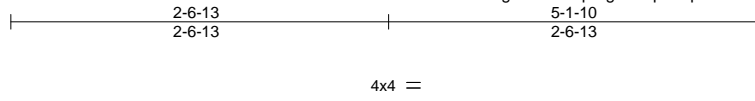
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information</b> available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	137516133
COMAS_JOB	V5	Valley	1	1	Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.220 s Nov 16 2018 MiTek Industries, Inc. Thu Jun 20 14:37:59 2019 Page 1

ID:Gbs5d2EBwvghhszRMqhXgz5S1p-bOpxEvK?c46cBoNVHfvQ3iK7NKVhOcsJKTmlG0z4MPc



Scale = 1:15.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 (Roof Snow=20.0)	2-0-0 Plate Grip DOL 1.15	TC 0.07	Vert(LL) n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(TL) n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(TL) 0.00	3	n/a	n/a		
BCDL 10.0	Code IBC2012/TPI2007	Matrix-P					Weight: 14 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 OTHERS 2x4 SPF Stud

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

**REACTIONS.** (lb/size) 1=100/5-1-0, 3=100/5-1-0, 4=145/5-1-0  
 Max Horz 1=35(LC 7)  
 Max Uplift 1=-16(LC 10), 3=-20(LC 11)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pf=20.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 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) 1, 3.



June 21, 2019

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

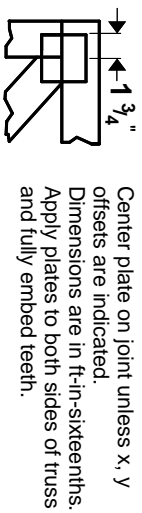
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



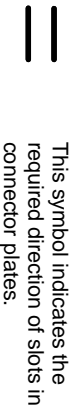
818 Soundside Road  
 Edenton, NC 27932

# Symbols

## PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0-  $\frac{1}{16}$ " from outside edge of truss.



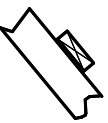
\* Plate location details available in **MITrak 20/20 software or upon request.**

## PLATE SIZE

4 X 4

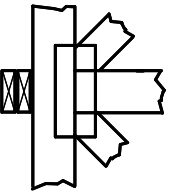
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

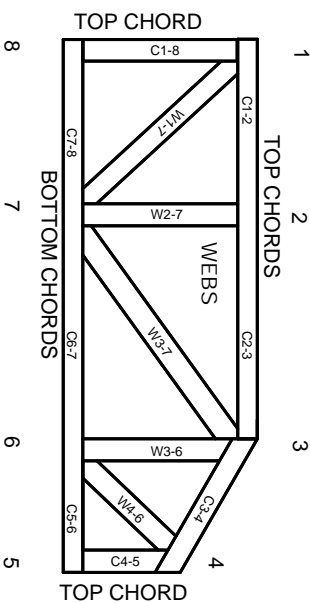


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TPI 1: 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



**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.

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MITek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



# 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.