

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 21030011-01 165 Crossings at AC-Braxton C-Roof

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I45052375 thru I45052402

My license renewal date for the state of North Carolina is December 31, 2021.

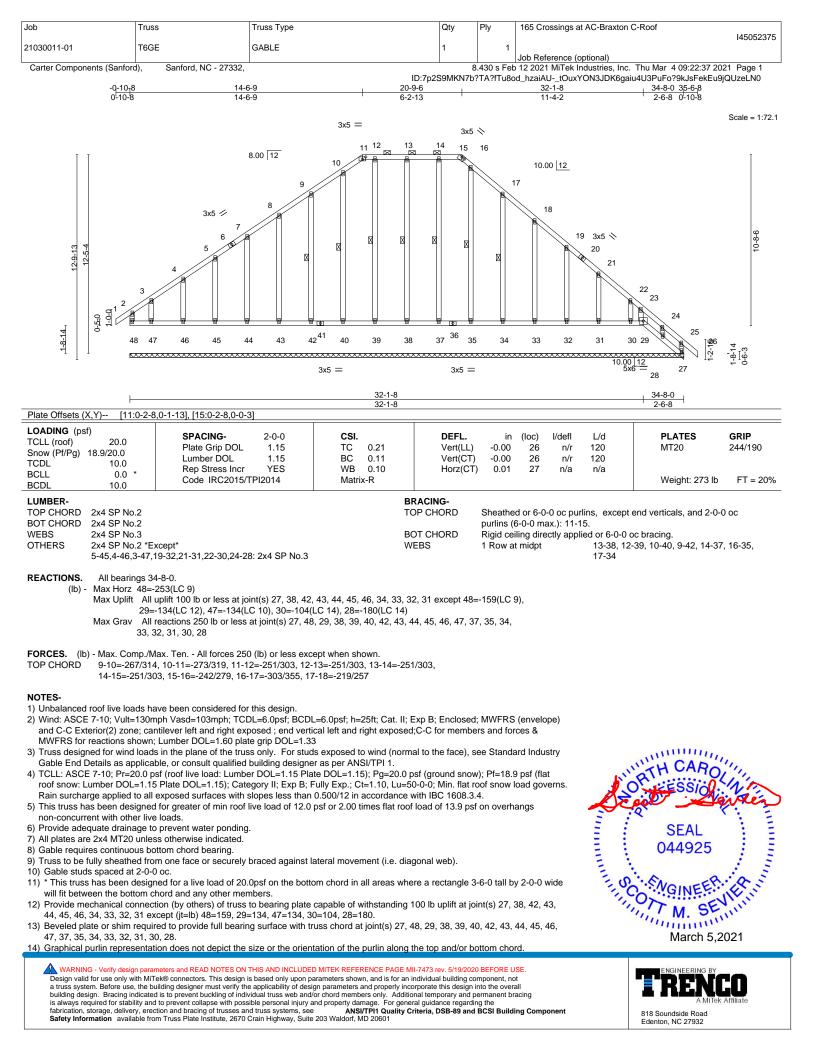
North Carolina COA: C-0844

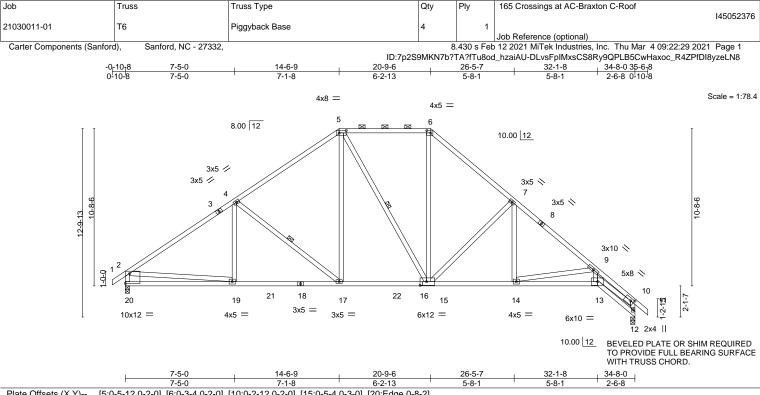


March 5,2021

Sevier, Scott

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.





LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 18.9/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.82 BC 0.93 WB 0.84	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.14 13-14 -0.31 13-14 0.27 12	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2015/TPI2014	Matrix-MSH		0.22		Weight: 233 lb	FT = 20%
LUMBER-		B	RACING-				
TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2		т	OP CHORD	Sheathed or 2-7 purlins (4-3-10 n		t end verticals, and 2-0)-0 oc
WEBS 2x4 SP No.2 *E 10-12,9-13,2-20		B	OT CHORD	Rigid ceiling dire 2-2-0 oc bracing		oc bracing, Except:	
REACTIONS. (size) 12=0	0-3-8, 20=0-3-8	W	EBS	1 Row at midpt	4-17, 5-15	5	

Max Grav 12=1436(LC 2), 20=1436(LC 2)

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

TOP CHORD 2-4=-1875/340, 4-5=-1477/379, 5-6=-1103/370, 6-7=-1551/401, 7-9=-2078/371,

9-10=-4292/615, 10-12=-1450/263, 2-20=-1367/303

- BOT CHORD 19-20=-219/518, 17-19=-77/1581, 15-17=0/1179, 14-15=-83/1551, 13-14=-385/3027
- WEBS 4-17=-518/197, 5-17=-43/548, 6-15=-101/639, 7-15=-679/232, 7-14=0/420,
 - 9-14=-1501/308, 9-13=-121/1532, 10-13=-456/3443, 2-19=-28/1130

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33

3) TCLL: ASCE 7-10; P=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

5) Provide adequate drainage to prevent water ponding.

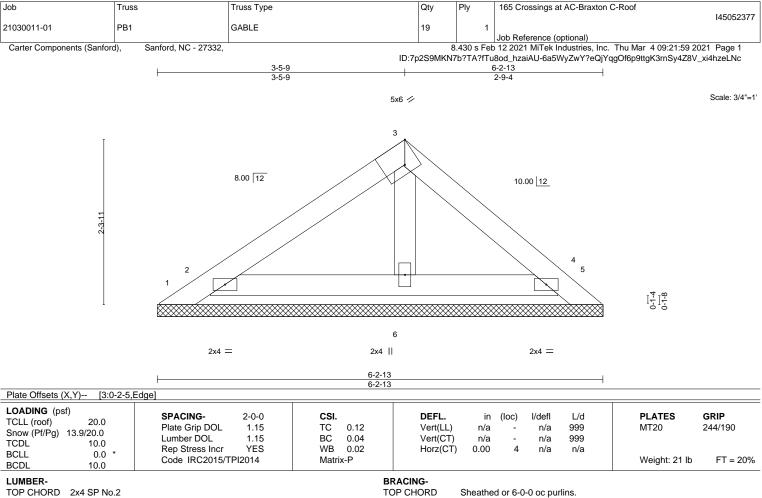
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 12.

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

SEAL 044925 March 5,2021

ENGINEERING BY AMTEK Affiliate 818 Soundside Road Edenton, NC 27932



BOT CHORD

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

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3

REACTIONS. All bearings 6-2-13.

(lb) - Max Horz 1=-42(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 5, 2, 4 except 1=-106(LC 25)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 4, 6 except 2=266(LC 25)

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

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

5) Gable requires continuous bottom chord bearing.

6) Gable studs spaced at 2-0-0 oc.

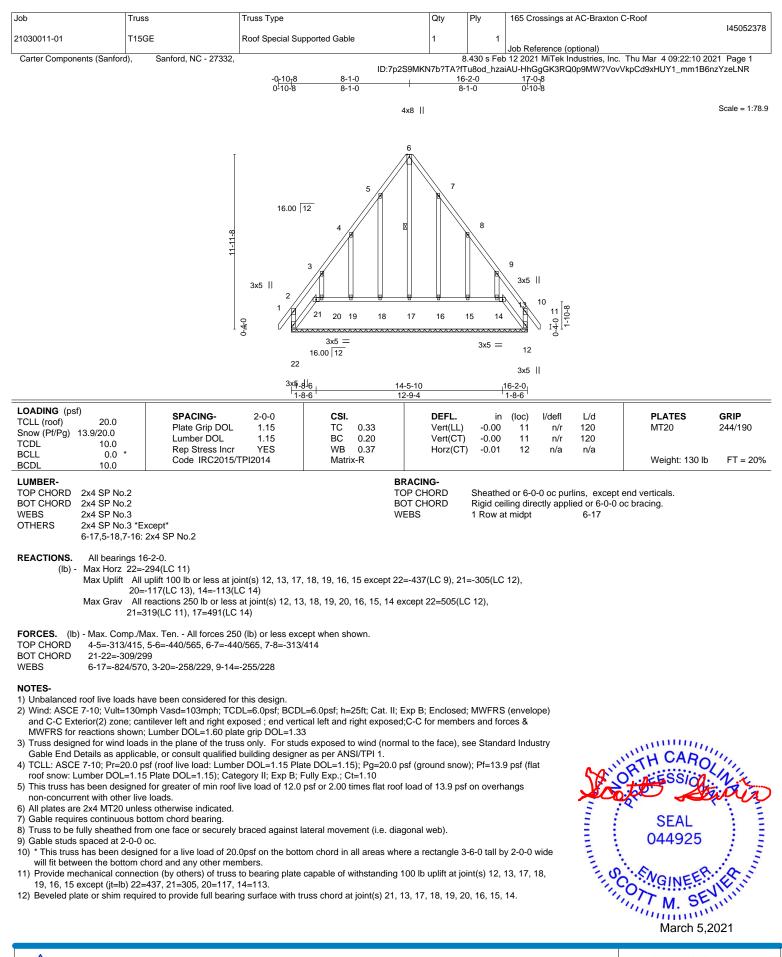
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 4 except (jt=lb) 1=106.

9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

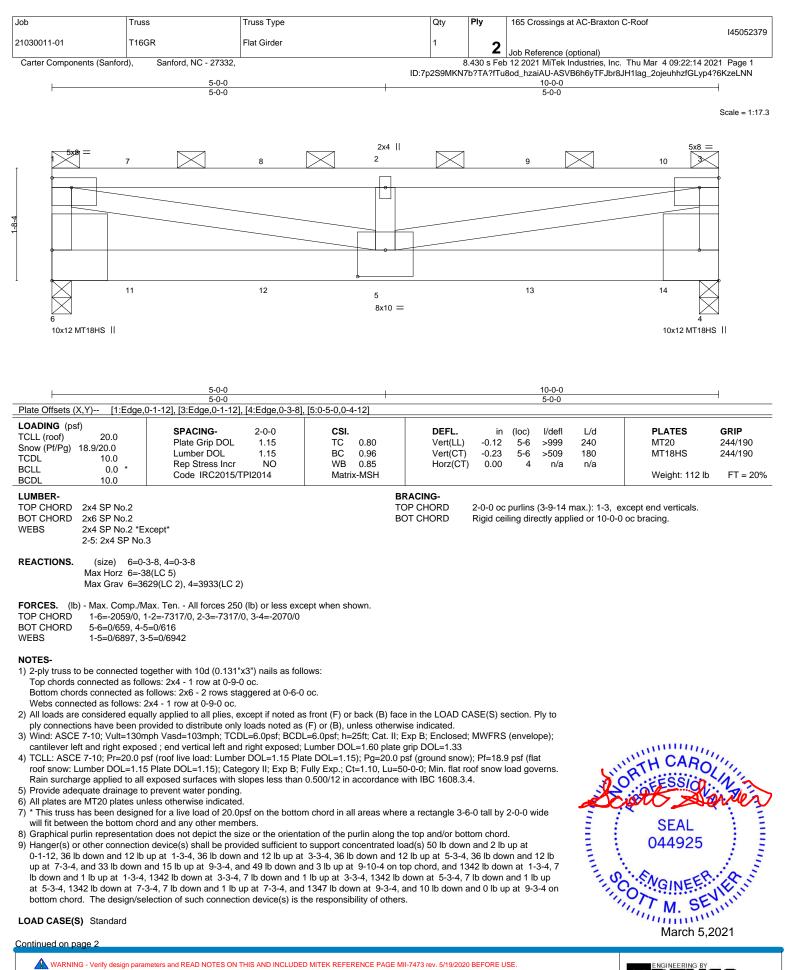






WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932



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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	165 Crossings at AC-Braxton C-Roof
					145052379
21030011-01	T16GR	Flat Girder	1	2	
				2	Job Reference (optional)
Carter Components (Sanford	d), Sanford, NC - 27332,		8	.430 s Feb	0 12 2021 MiTek Industries, Inc. Thu Mar 4 09:22:14 2021 Page 2

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 4 09:22:14 2021 Page 2 ID:7p2S9MKN7b?TA?fTu8od_hzaiAU-ASVB6h6yTFJbr8JH1lag_2ojeuhhzfGLyp4?6KzeLNN

LOAD CASE(S) Standard

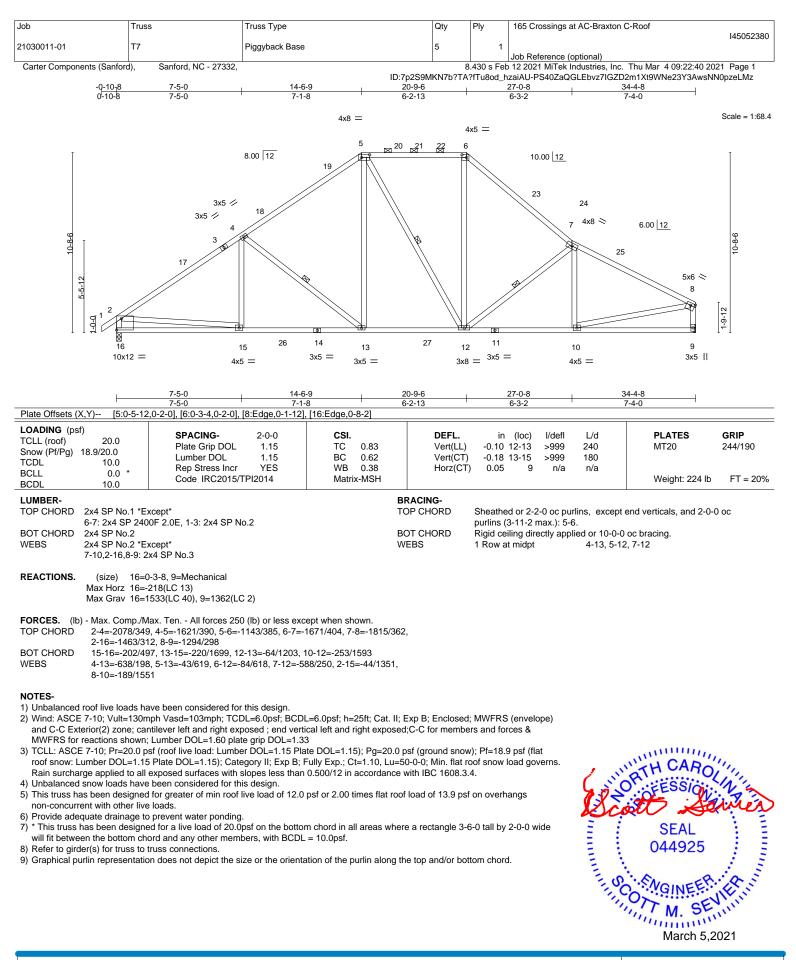
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-58, 4-6=-20 Concentrated Loads (lb)

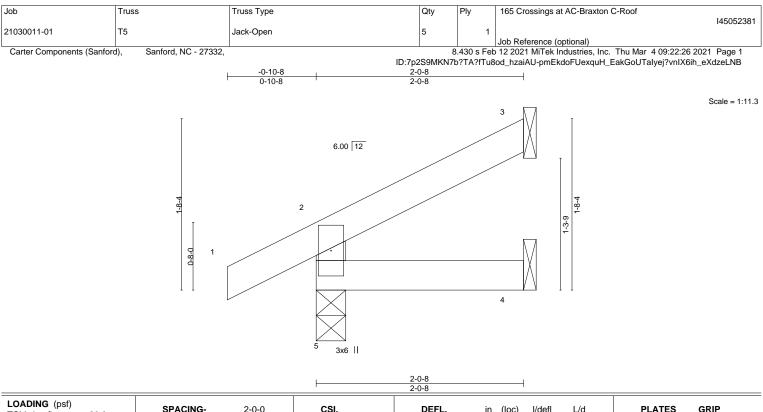
Vert: 1=-14 3=-14 5=-1271(F=0, B=-1271) 11=-1271(F=0, B=-1271) 12=-1271(F=0, B=-1271) 13=-1271(F=0, B=-1271) 14=-1275(F=-0, B=-1275) 14=-125(F=-0, B=-1275) 14=-125(F=-0, B=-125) 14=-125(F=-0





TREPACE AMITEK Affilia 818 Soundside Road

Edenton, NC 27932



LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 13.9/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.09 BC 0.03 WB 0.00	DEFL. in (loc) Vert(LL) 0.00 5 Vert(CT) -0.00 5 Horz(CT) -0.00 3	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR			Weight: 8 lb	FT = 20%

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

BRACING-TOP CHORD BOT CHORD

Sheathed or 2-0-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=33(LC 15) Max Uplift 5=-2(LC 15), 3=-18(LC 15) Max Grav 5=152(LC 2), 3=41(LC 2), 4=18(LC 13)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully 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 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.





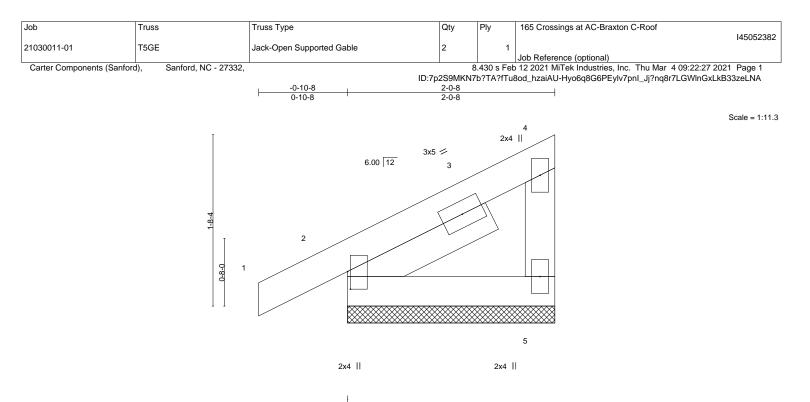


Plate Offsets (X,Y) [2:0-2-1,0)-0-5]						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 13.9/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.06 BC 0.03 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.00 1 -0.00 1 0.00 5	l/defl L/d n/r 120 n/r 120 n/a n/a	PLATES MT20 Weight: 12 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2		TOF			D-8 oc purlins, except ectly applied or 10-0-0		

 WEBS
 2x4 SP No.3

 SLIDER
 Left 2x4 SP No.3 -t 1-6-7

 REACTIONS.
 (size)
 5=2-0-8, 2=2-0-8

Max Horz 2=42(LC 12) Max Uplift 5=-9(LC 12), 2=-7(LC 15) Max Grav 5=64(LC 2), 2=140(LC 2)

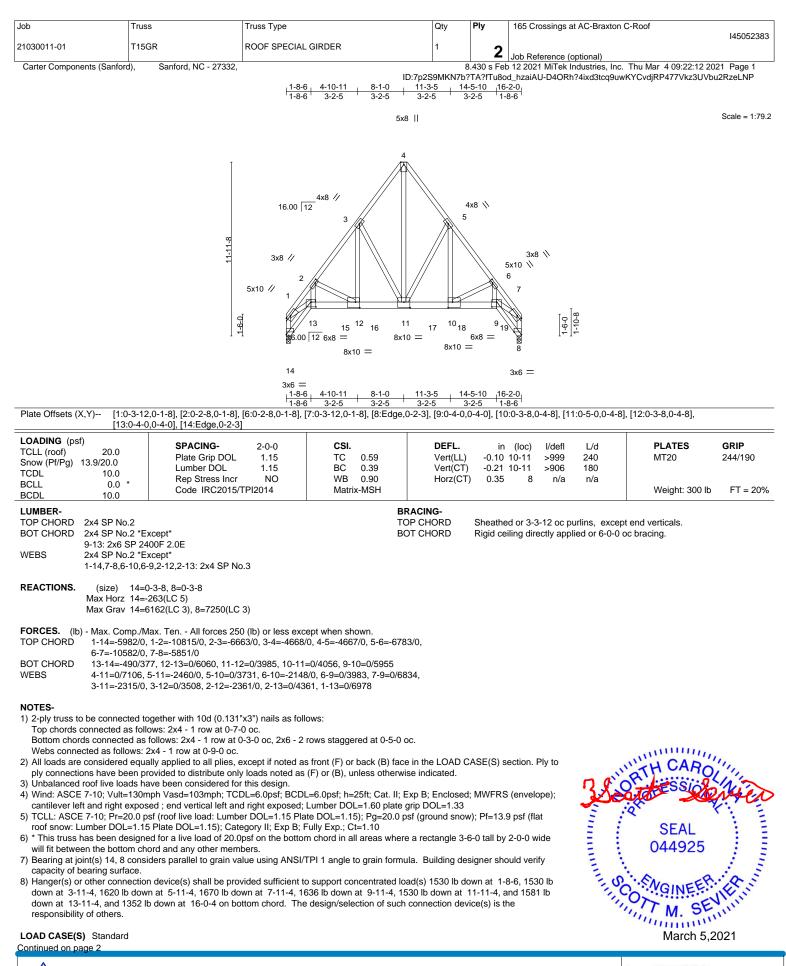
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully 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 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.







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[Job	Truss	Truss Type	Qty	Ply	165 Crossings at AC-Braxton C-Roof
						145052383
	21030011-01	T15GR	ROOF SPECIAL GIRDER	1	2	
					_	Job Reference (optional)
	Carter Components (Sanford	i), Sanford, NC - 27332,		6	.430 s Feb	12 2021 MiTek Industries, Inc. Thu Mar 4 09:22:12 2021 Page 2
	ID:7p2S9MKN7b?TA?fTu8od_hzaiAU-D4ORh?4ixd3tcq9uwKYCvdjRP477Vkz3UVbu2RzeI					

LOAD CASE(S) Standard

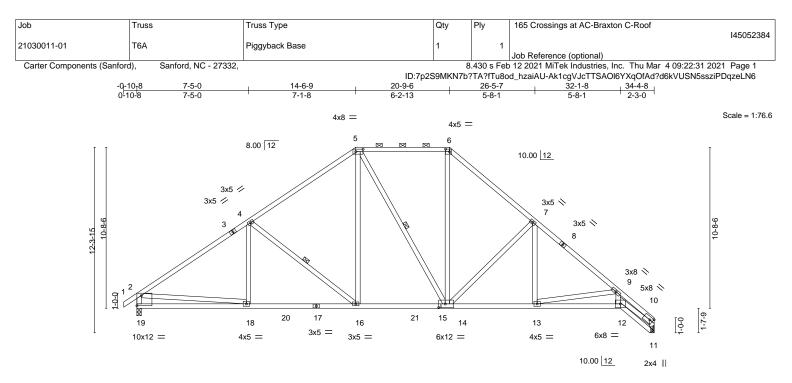
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-4=-48, 4-7=-48, 13-14=-20, 9-13=-20, 8-9=-20

Concentrated Loads (lb)

Vert: 8=-1175(B) 13=-1383(B) 11=-1453(B) 15=-1410(B) 16=-1435(B) 17=-1438(B) 18=-1414(B) 19=-1387(B)





	7-5-0	+ <u>14-6-9</u> 7-1-8	20-9-6 6-2-13	26-5-7	<u>32-1-8</u> 5-8-1	+ <u>34-4-8</u> 2-3-0	
Plate Offsets (X,Y) [5:0-5-12,0-2-0], [6:0-3-4,0-2-0], [5-6-1	2-3-0	
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 18.9/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 CSI. 1.15 TC 1.15 BC YES WB Pl2014 Matri	0.81 0.84 0.75 ix-MSH	DEFL. in (loc) Vert(LL) -0.13 14-16 Vert(CT) -0.25 12-13 Horz(CT) 0.22 11		PLATES MT20 Weight: 229 lb	GRIP 244/190 FT = 20%
LUMBER-			BRACIN	G-			
TOP CHORD 2x4 SP BOT CHORD 2x4 SP			TOP CH	ORD Sheathed or 2- purlins (4-4-5 r		cept end verticals, and 2-	0-0 oc
	No.2 *Except* 12.2-19: 2x4 SP No.3		BOT CH		rectly applied or 10-0	0-0 oc bracing, Except:	
			WEBS	1 Row at midp		-14	
REACTIONS. (size)	11=Mechanical, 19=0-3-8						

Max Horz 19=243(LC 12) Max Grav 11=1362(LC 2), 19=1426(LC 2)

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

2-4=-1858/341, 4-5=-1459/381, 5-6=-1082/372, 6-7=-1523/403, 7-9=-2014/377, TOP CHORD

9-10=-3827/656, 10-11=-1358/232, 2-19=-1356/304

18-19=-228/508, 16-18=-135/1558, 14-16=0/1155, 13-14=-144/1499, 12-13=-472/2732 BOT CHORD

- WEBS 4-16=-520/197, 5-16=-43/548, 6-14=-102/621, 7-14=-637/236, 7-13=0/371,
 - 9-13=-1254/334, 9-12=-145/1220, 10-12=-514/3045, 2-18=-30/1118

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33

3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

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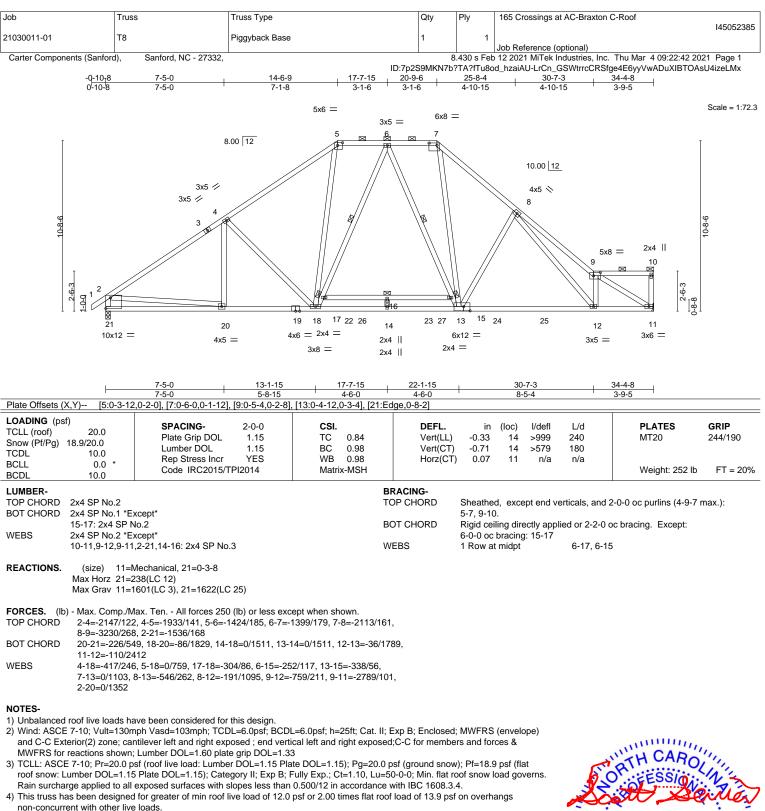
5) Provide adequate drainage to prevent water ponding.

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



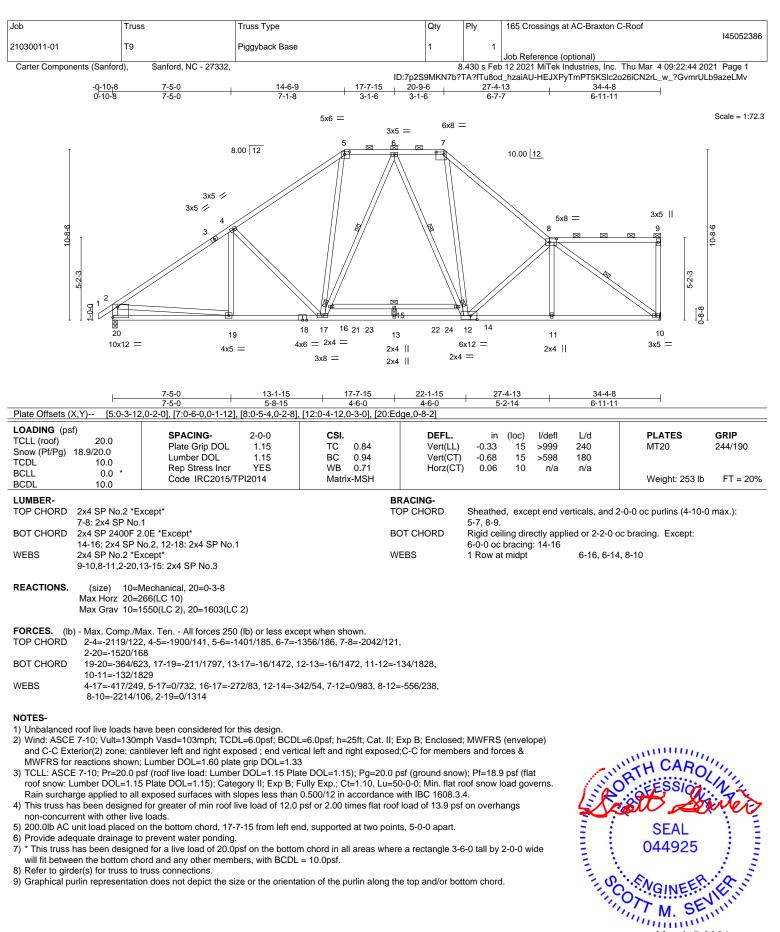
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- 200.0lb AC unit load placed on the bottom chord, 17-7-15 from left end, supported at two points, 5-0-0 apart.
- 6) Provide adequate drainage to prevent water ponding.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

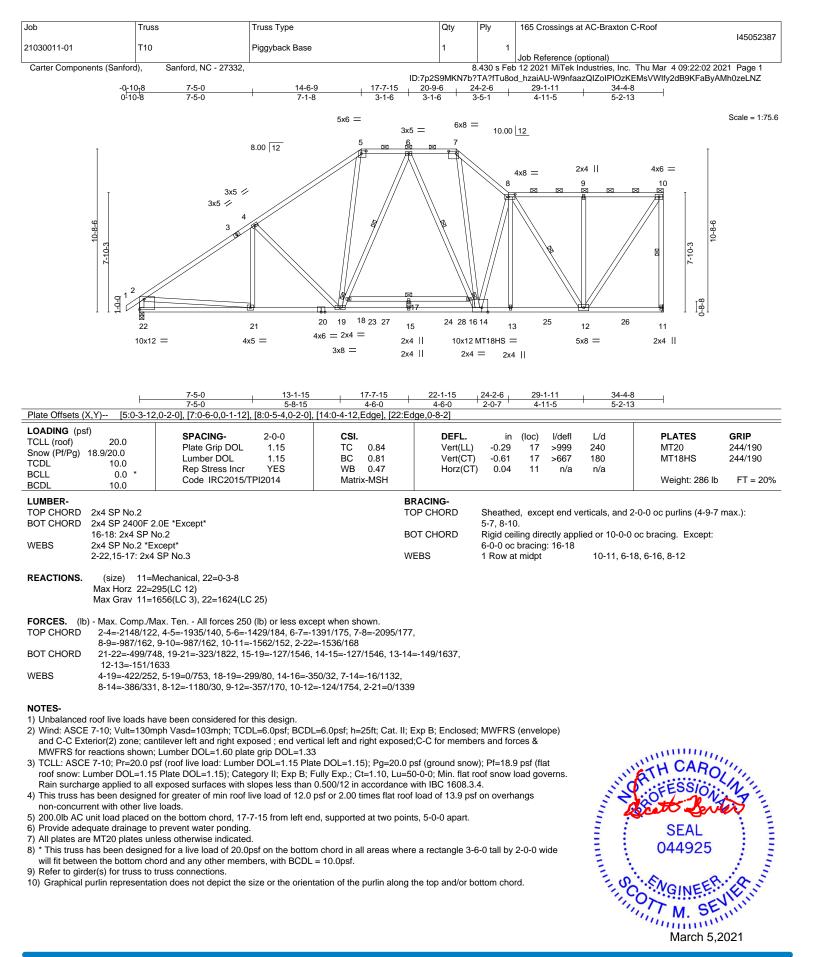






March 5,2021

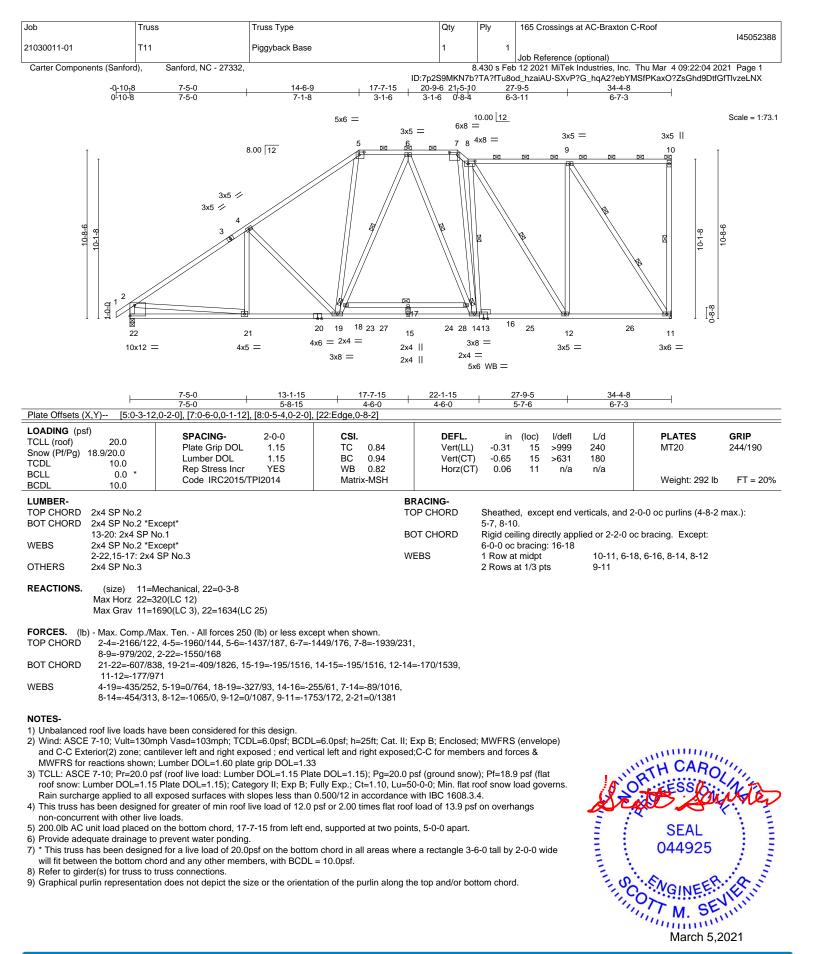




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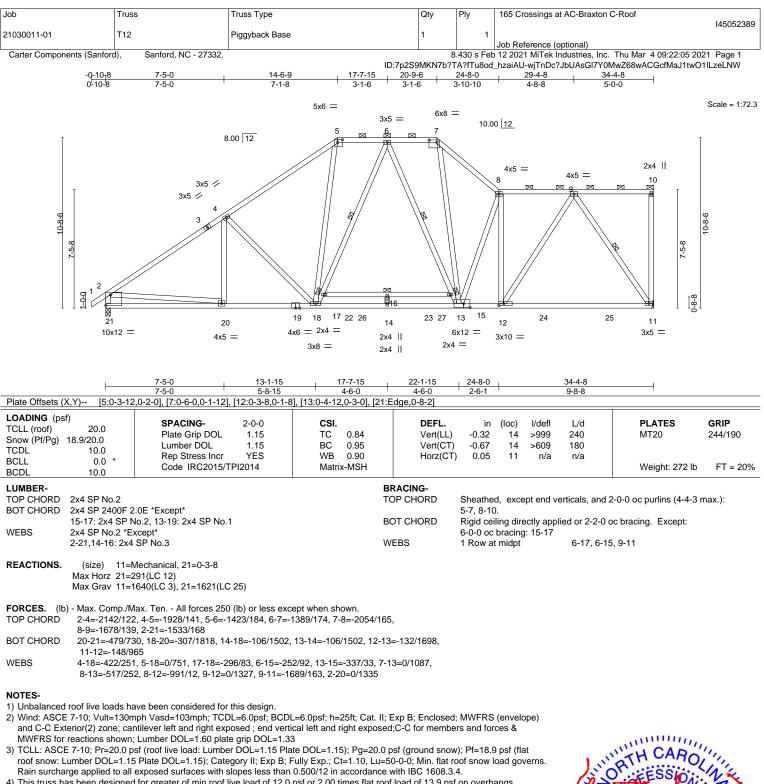
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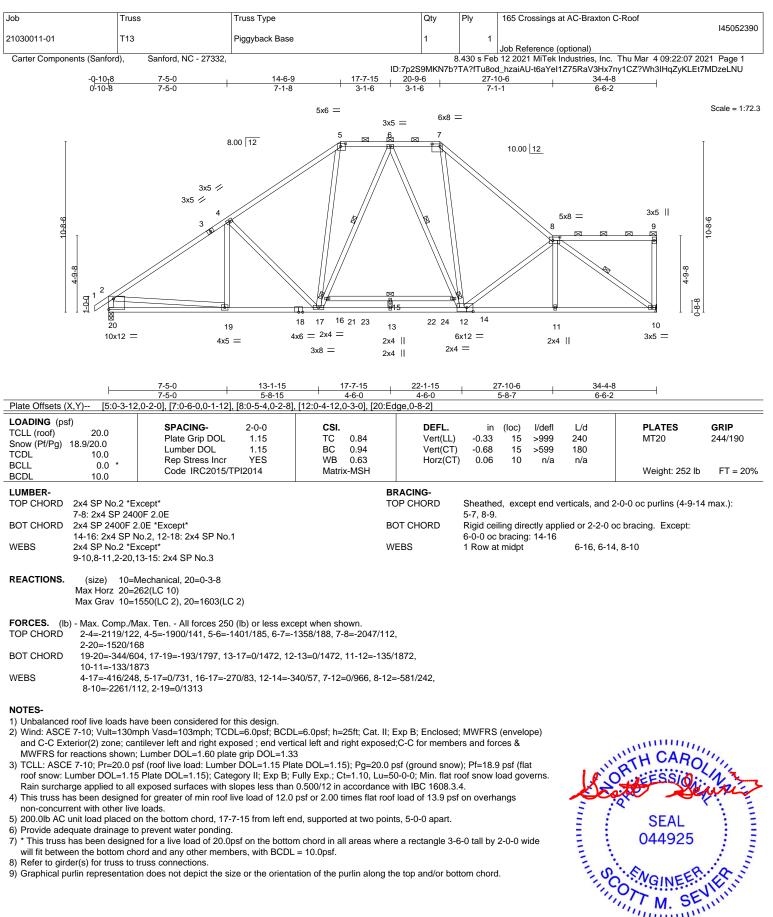
A MiTek Affili 818 Soundside Road Edenton, NC 27932



- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 5) 200.0lb AC unit load placed on the bottom chord, 17-7-15 from left end, supported at two points, 5-0-0 apart.
- 6) Provide adequate drainage to prevent water ponding.
- 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.
- Refer to girder(s) for truss to truss connections.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

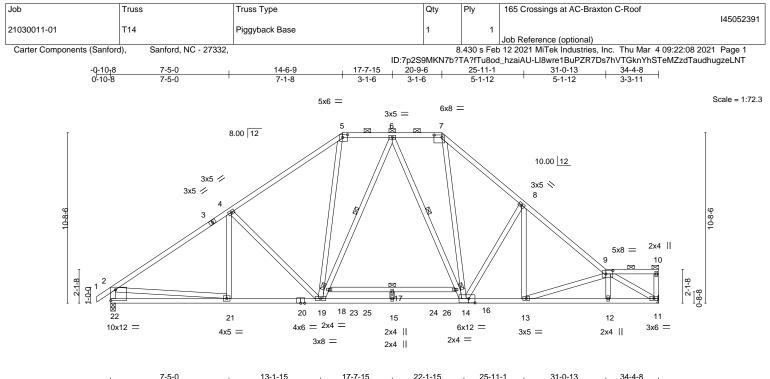


A Mi Tek Affilia 818 Soundside Road Edenton, NC 27932



March 5,2021





	L	7-5-0	13-1-15		17-7-15	22-1-15	25-11			0-13	34-4-8	
		7-5-0	5-8-15	1	4-6-0	4-6-0	3-9-2	2 '	5-1	-12	3-3-11	
Plate Offsets ((X,Y) [5:0-3-12	2,0-2-0], [7:0-6-0,0-1-12],	[9:0-5-4,0-2-8],	[14:0-4-12,	0-3-4], [22	:Edge,0-8-2]						
LOADING (ps TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	20.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matri	0.84 0.95 0.80 x-MSH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.32 -0.68 0.06	(loc) 15 15 11	l/defl >999 >600 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 255 lb	GRIP 244/190 FT = 20%
	10.0					BRACING-						
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 2400F 2.0E *Except* 16-18: 2x4 SP No.2, 14-20: 2x4 SP No.1 WEBS 2x4 SP No.2 *Except* 10-11.9-12.9-11.2-22.15-17: 2x4 SP No.3			TOP CHORD Sheathed, except end verticals, and 2-0-0 oc purlins (4-10-0 max.): 5-7, 9-10. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 15-19,14-15. 6-0-0 oc bracing: 16-18					max.):				
REACTIONS.	(size) 11=I Max Horz 22=2	Mechanical, 22=0-3-8				WEBS	1 Row at	•	<i>.</i>	6-18, 6- ⁻	16	
FORCES. (II TOP CHORD	2-4=-2120/122	1ax. Ten All forces 250 2, 4-5=-1899/141, 5-6=-1 5, 2-22=-1520/168	. ,			57,						

BOT CHORD	21-22=-214/559, 19-21=-67/1800, 15-19=0/1476, 14-15=0/1476, 13-14=-27/1713,
	12-13=-115/2461, 11-12=-109/2467
WEBS	4-19=-414/246, 5-19=0/742, 18-19=-278/87, 6-16=-252/121, 14-16=-340/62,
	7-14=0/1056, 8-14=-551/275, 8-13=-57/293, 9-13=-818/125, 9-11=-2806/102,
	2-21=0/1314

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33

3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

5) 200.0lb AC unit load placed on the bottom chord, 17-7-15 from left end, supported at two points, 5-0-0 apart.

6) Provide adequate drainage to prevent water ponding.

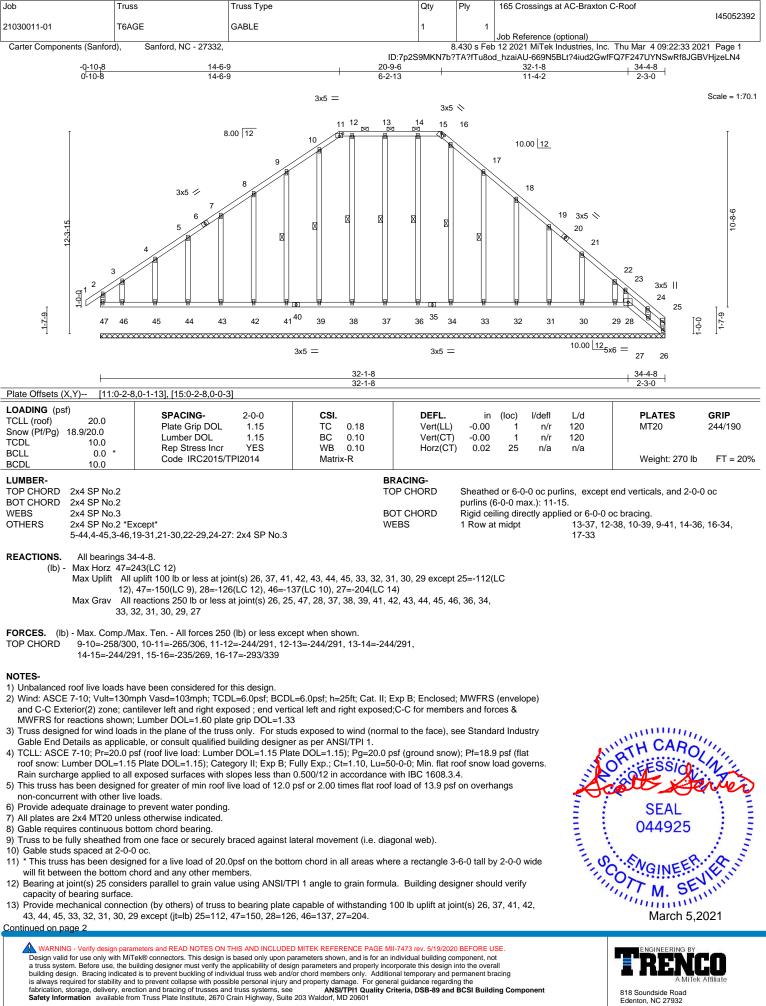
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

8) Refer to girder(s) for truss to truss connections.

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



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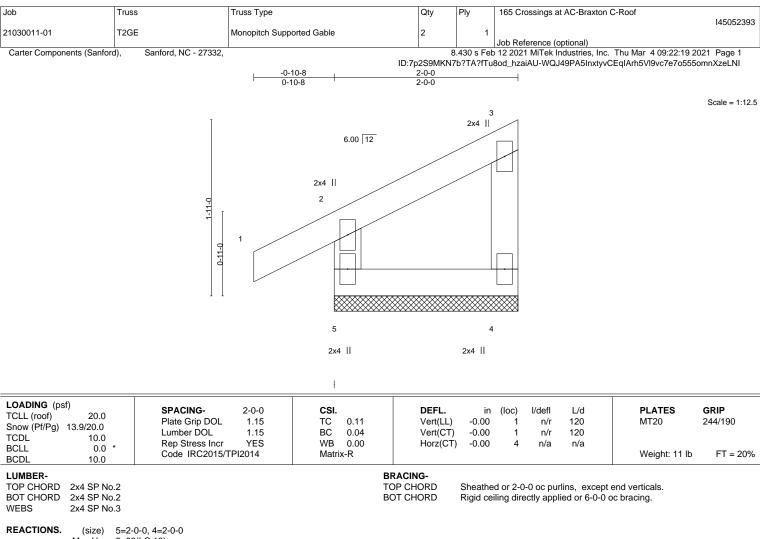
818 Soundside Road Edenton, NC 27932

[Job	Truss	Truss Type	Qty	Ply	165 Crossings at AC-Braxton C-Roof		
	21030011-01	T6AGE	GABLE	1	1	145052392		
	21030011-01	TUAGE	GABLE	•		Job Reference (optional)		
	Carter Components (Sanford), Sanford, NC - 27332,	8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 4 09:22:34 2021 Page 2					
	ID:7p2S9MKN7b?TA?fTu8od_hzaiAU-aJjlIXLVmOqlFCr7CyxMoGdIEyjhfuuIYww3p9zeLN							

NOTES-

14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 47, 28, 37, 38, 39, 41, 42, 43, 44, 45, 46, 36, 34, 33, 32, 31, 30, 29, 27. 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Max Horz 5=53(LC 12) Max Uplift 5=-8(LC 15), 4=-18(LC 12) Max Grav 5=148(LC 2), 4=-53(LC 29)

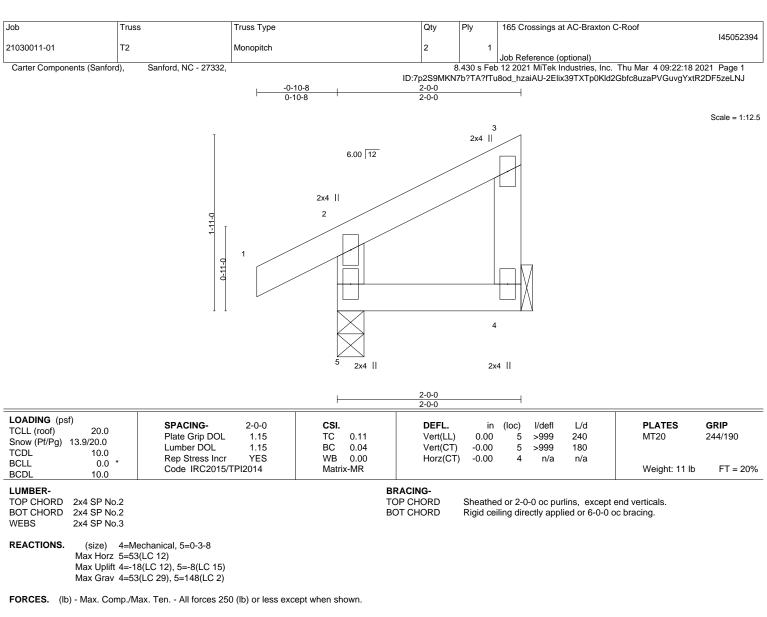
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully 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 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.





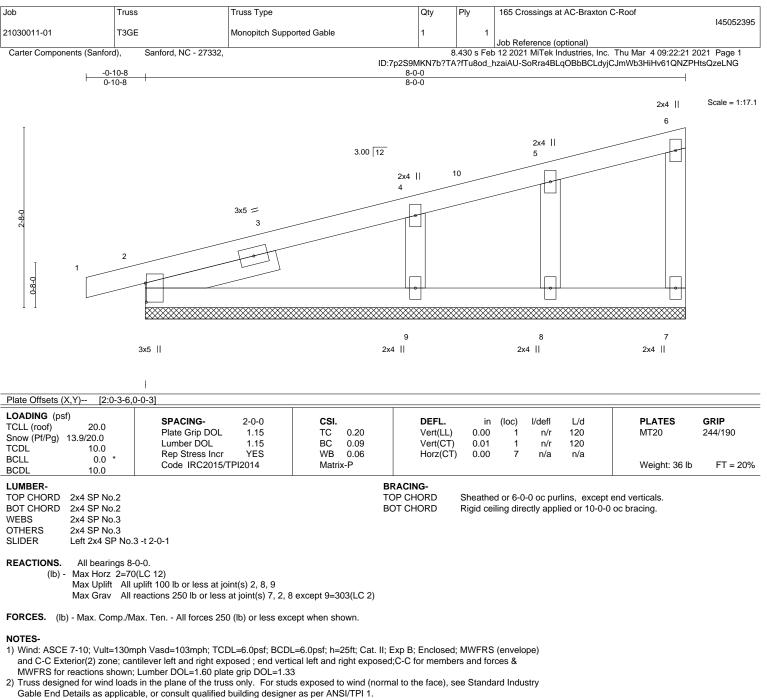


NOTES-

- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully 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 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.





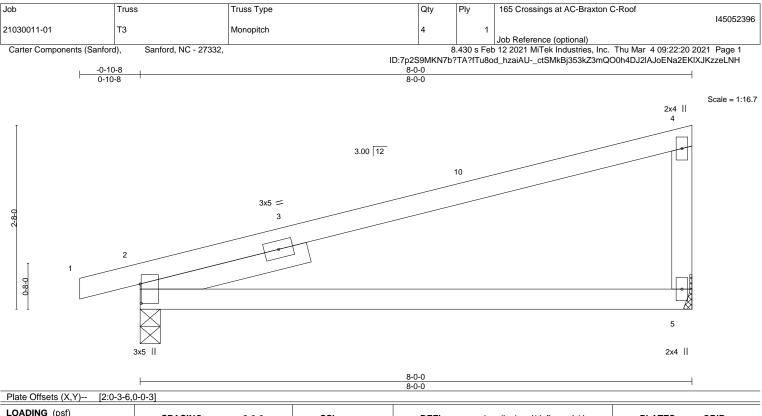


- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.
- 4) Unbalanced snow loads have been considered for this design.
 5) This truss has been designed for greater of min roof live load of 12.0 pet or 2.00 times flat roof load of 12.0 pet or a customer of the statement of th
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 9.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 sand truss system. See **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932



LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 13.9/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.80 BC 0.69 WB 0.00 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.17 5-8 -0.36 5-8 0.06 2	l/defl >553 >261 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 32 lb	GRIP 244/190 FT = 20%
LUMBER-			RACING-	Sheathed or 6-0)-0 oc pu	rlins excent	t end verticals	

TOP CHORD BOT CHORD

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

REACTIONS. (size) 5=Mechanical, 2=0-3-8 Max Horz 2=72(LC 14) Max Uplift 5=-15(LC 15), 2=-34(LC 11)

Left 2x4 SP No.3 -t 2-6-0

2x4 SP No.2

2x4 SP No.3

Max Grav 5=311(LC 2), 2=370(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-319/65

NOTES-

BOT CHORD

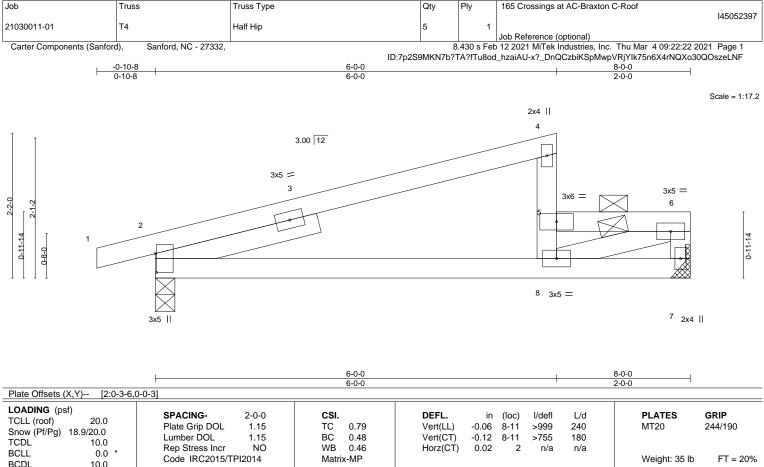
WEBS

SLIDER

- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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, 2.







DODL	10.0					
LUMBER-			B	RACING-		
TOP CHORD	2x4 SP No.2		T	OP CHORD	Sheathed or 6-0-0 oc purlins, except	end verticals, and 2-0-0 oc
BOT CHORD	2x4 SP No.2				purlins (5-7-11 max.): 5-8, 5-6.	
WEBS	2x4 SP No.3 *E	xcept*	B	OT CHORD	Rigid ceiling directly applied or 10-0-0	oc bracing.
	4-8: 2x4 SP No.	1				
SLIDER	Left 2x4 SP No.	3 -t 2-6-0				

REACTIONS. (size) 7=Mechanical, 2=0-3-8 Max Horz 2=71(LC 15)

Max Uplift 7=-11(LC 15), 2=-32(LC 11) Max Grav 7=475(LC 2), 2=460(LC 35)

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

- TOP CHORD 2-4=-407/143, 5-8=-264/171, 5-6=-1038/415, 6-7=-464/205
- BOT CHORD 2-8=-190/395
- WEBS 6-8=-448/1100

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 7-10-4 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.

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) 7, 2.
- 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) 135 lb down and 46 lb up at
- 5-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Continued on page 2





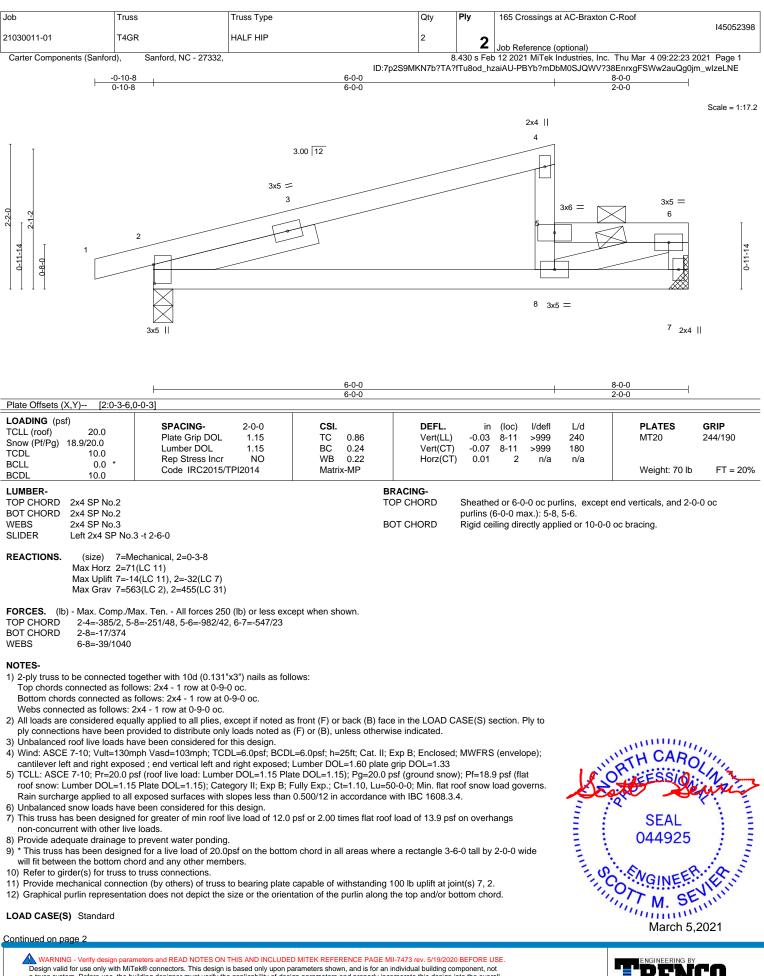
Job	Truss	Truss Type	Qty	Ply	165 Crossings at AC-Braxton C-Roof
					145052397
21030011-01	T4	Half Hip	5	1	
					Job Reference (optional)
Carter Components (Sanford), Sanford, NC - 27332,		8	.430 s Feb	0 12 2021 MiTek Industries, Inc. Thu Mar 4 09:22:22 2021 Page 2

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 4 09:22:22 2021 Page 2 ID:7p2S9MKN7b?TA?fTu8od_hzaiAU-x?_DnQCzbiKSpMwpVRjYIk75n6X4rNQXo30QOszeLNF

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-4=-48, 5-6=-98, 7-9=-20 Concentrated Loads (lb) Vert: 4=-120





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Job	Truss	Truss Type	Qty	Ply	165 Crossings at AC-Braxton C-Roof
					145052398
21030011-01	T4GR	HALF HIP	2	2	
					Job Reference (optional)
Carter Components (Sanford), Sanford, NC - 27332, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 4 09:22:24 2021 Page					

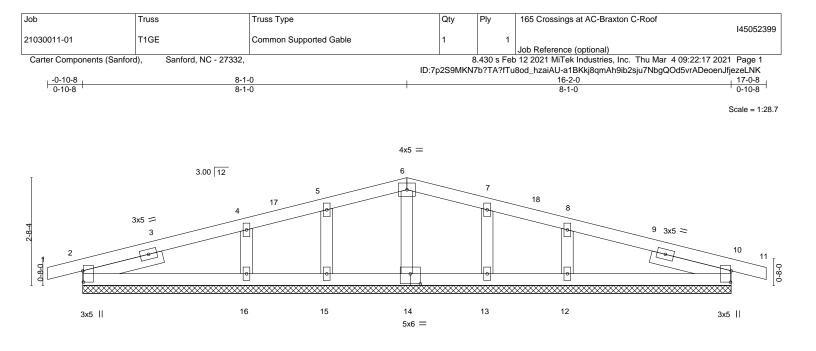
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LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-4=-48, 5-6=-198, 7-9=-20





		16-2-0							_
Plate Offsets (X,Y) [2:0-3-6,0	0-0-3], [10:0-3-6,0-0-3], [14:0-3-0,0-3-0]	16-2-0)						
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 13.9/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCodeIRC2015/TPI2014	CSI. TC 0.17 BC 0.10 WB 0.04 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (0.00 0.01 0.00	(loc) l 11 11 10	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 69 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2		TO		Sheathed Rigid ceilir				oc bracing.	

BOT CHORD2x4 SP No.2OTHERS2x4 SP No.3

SLIDER Left 2x4 SP No.3 -t 2-0-9, Right 2x4 SP No.3 -t 2-0-9

REACTIONS. All bearings 16-2-0.

(lb) - Max Horz 2=-22(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 16, 13, 12, 10

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 15, 13, 10 except 16=299(LC 34), 12=300(LC 35)

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

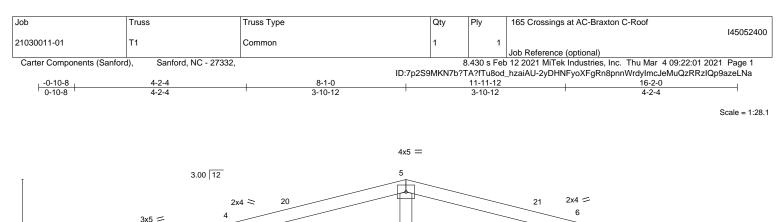
NOTES-

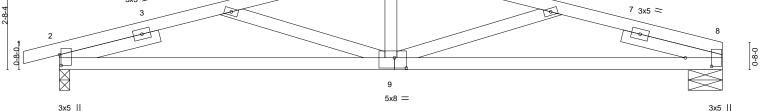
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 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, 15, 16, 13, 12, 10.



E USE. , not verall t bracing iilding Component 818 Soundside Road Edenton, NC 27932





	I
PLATES MT20 Weight: 73 lb	GRIP 244/190 FT = 20%
oc bracing.	

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33

3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.

4) Unbalanced snow loads have been considered for this design.

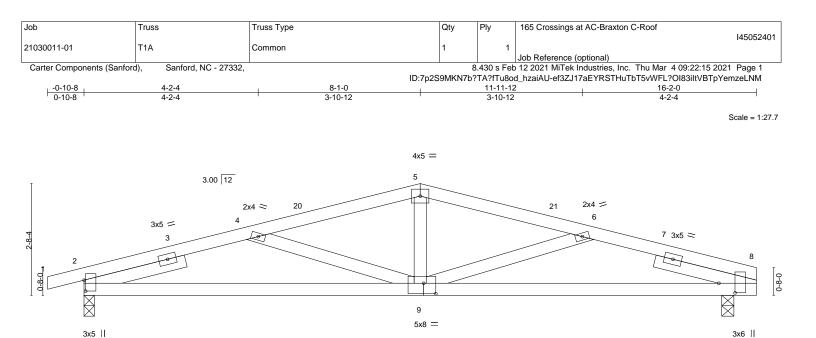
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

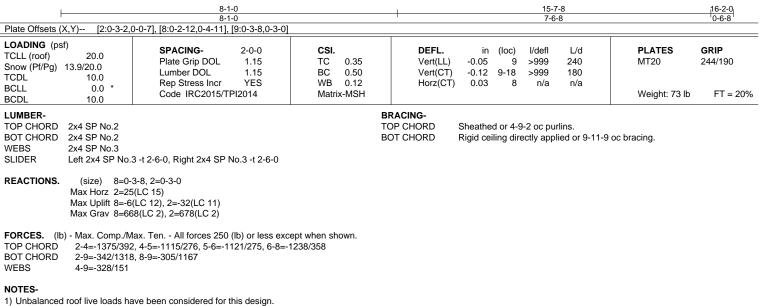
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.









2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33

3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.

4) Unbalanced snow loads have been considered for this design.

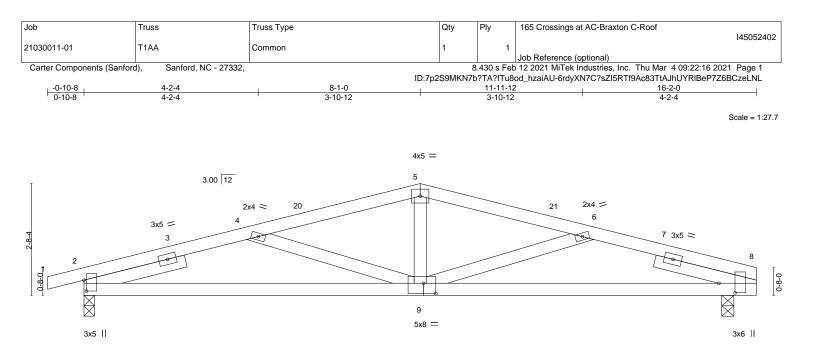
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

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L	8-1-0 8-1-0 te Offsets (X,Y) [2:0-3-2,0-0-11], [8:0-2-12,0-4-11], [9:0-3-8,0-3-0]			15-7-8					
Plate Offsets (X,Y) [2:0-3-2,0				7-6-8					
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 13.9/20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 1-11-4 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.34 BC 0.48 WB 0.12 Matrix-MSH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.05 9 -0.12 9-18 0.03 8	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 73 lb	GRIP 244/190 FT = 20%		
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 SLIDER Left 2x4 SP No.3	3 -t 2-6-0, Right 2x4 SP No.3 -t 2-6-0	тс			10-5 oc purlins. ectly applied or 10-0-	0 oc bracing.			
TOP CHORD 2-4=-1332/380	ax. Ten All forces 250 (lb) or less exc), 4-5=-1080/267, 5-6=-1086/266, 6-8=-1 ', 8-9=-296/1130								
NOTES- 1) Unbalanced roof live loads ha	ave been considered for this design.								

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

A MiTek Affilia 818 Soundside Road Edenton, NC 27932

