

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0320-1196 Ben Stout/38 Blackberry Manor/Harnett

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: E14472594 thru E14472604

My license renewal date for the state of North Carolina is December 31, 2020.

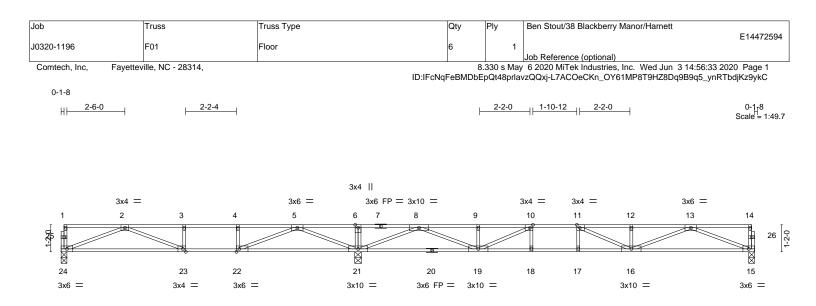
North Carolina COA: C-0844



June 3,2020

Gilbert, Eric

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.



	<u>12-9-12</u> 12-9-12		<u>29-11-0</u> 17-1-4				
Plate Offsets (X,Y) [1	10:0-1-8,Edge], [11:0-1-8,Edge], [22:0-	1-8,Edge], [23:0-1-8,Edge	9]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.84 BC 0.92 WB 0.79 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.26 16-17 >787 480 Vert(CT) -0.36 23-24 >417 360 Horz(CT) 0.06 15 n/a n/a	PLATES GRIP MT20 244/190 Weight: 143 lb FT = 20%F, 11%E			
BOT CHORD 2x4 SP M	No.3(flat)		BRACING- TOP CHORD Structural wood sheathing except end verticals. BOT CHORD Rigid ceiling directly appli	g directly applied or 6-0-0 oc purlins, ed or 2-2-0 oc bracing.			

Max Grav 24=622(LC 3), 21=1882(LC 1), 15=851(LC 7)

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

 TOP CHORD
 2-3=-1683/96, 3-4=-1683/96, 4-5=-1683/96, 5-6=0/1858, 6-8=0/1858, 8-9=-2403/0, 9-10=-2403/0, 10-11=-3148/0, 11-12=-2914/0, 12-13=-2914/0

 BOT CHORD
 23-24=0/1257, 22-23=-96/1683, 21-22=-713/765, 19-21=-181/967, 18-19=0/3148, 17-18=0/3148, 16-17=0/3148, 15-16=0/1833

 WEBS
 6-21=-299/0, 2-24=-1346/0, 2-23=-197/460, 5-21=-1814/0, 5-22=0/1285, 4-22=-391/0,

WEBS 6-21=-299/0, 2-24=-1346/0, 2-23=-197/460, 5-21=-1814/0, 5-22=0/1285, 4-22=-391/0 8-21=-2386/0, 8-19=0/1652, 9-19=-260/24, 13-15=-1966/0, 13-16=0/1167,

10-19=-1091/0, 12-16=-304/0, 11-16=-466/205

NOTES-

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

2) All plates are 1.5x3 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



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 designe. 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 **ANS/TPTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss	туре		Qty	Ply	Ben Stout/38 Bla	ackberry Manor/H	arnett	F 4 4 7 0 F	0.5
J0320-1196	F02	Floor	Girder		1	1				E1447259	95
		1.001	Ondor		•		Job Reference (c	ptional)			
Comtech, Inc, F	Fayetteville, NC - 28314,				ID:IFcNqFeBI				ed Jun 3 14:56:35 JBleZIBv_qXZvo4		
0-1-8											
		2-4				2-0-0	_ <u>1-11-12</u> _	2-0-0		Scale = 1:4	9.5
				3v4							
	3x4 =		3x6 =	3x4 3x6 FP = 3x1	0 =	3	8x4 = 3x4	=	3x6 =	3x4	
1	3x4 = 2 3	4	3x6 = 5			9	8x4 = 3x4 10 11	= 12	3x6 = 13	3x4 14	
		4		3x6 FP = 3x1							1-2-0
		4	5	3x6 FP = 3x1					13		1-2-0

L	12-9-12			29	-8-0	
	12-9-12	I	5-1-8	11-8-12		
Plate Offsets (X,Y)	[10:0-1-8,Edge], [11:0-1-8,Edge], [22:0-1	1-8,Edge], [23:0-1-8,Edge]]			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.82 BC 0.90 WB 0.76 Matrix-S	Vert(LL) -0.25	i (loc) I/defl L/d 16-17 >814 480 23-24 >423 360 15 n/a n/a	PLATES MT20 Weight: 142 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SP	No.1(flat) No.1(flat) No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied or	2 11	oc purlins,
REACTIONS. (size Max G	e) 24=0-3-0, 21=0-3-8, 15=Mechanica rav 24=624(LC 3), 21=1862(LC 1), 15=					

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

 TOP CHORD
 2-3=-1691/68, 3-4=-1691/68, 4-5=-1691/68, 5-6=0/1801, 6-8=0/1801, 8-9=-2375/0, 9-10=-2375/0, 10-11=-3059/0, 11-12=-2852/0, 12-13=-2852/0

 BOT CHORD
 23-24=0/1260, 22-23=-68/1691, 21-22=-669/778, 19-21=-175/984, 18-19=0/3059, 17-18=0/3059, 16-17=0/3059, 15-16=0/1808

 WEBS
 6-21=-297/0, 2-24=-1350/0, 2-23=-180/465, 5-21=-1802/0, 5-22=0/1267, 4-22=-386/0, 13-15=-1945/0, 13-16=0/1127, 12-16=-295/0, 8-21=-2346/0, 8-19=0/1606,

13-15=-1945/0, 13-16=0/1127, 12-16=-295/0, 8-21=-2346/0, 8-19 10-19=-1042/0, 11-16=-437/209

NOTES-

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

2) All plates are 1.5x3 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

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

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.



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E14472596 36 2020 Page 1 1D8RqHKfz9yk9 Scale = 1:50.9
nD8RqHKfz9yk9
nD8RqHKfz9yk9
Scale = 1:50.9
Scale = 1:50.9
Scale = 1:50.9
3x4
14
-
15
6x8 =

	12-9-12		29-8-0					
	12-9-12				16-10-4	ļ		1
Plate Offsets (X,Y)	[10:0-1-8,Edge], [11:0-1-8,Edge], [17:0-	1-8,Eagej, [22:0-1-8,Eage	j, [23:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.64 BC 0.79 WB 0.91 Matrix-S	DEFL. Vert(LL) -0.2 Vert(CT) -0.3 Horz(CT) 0.0	1 17	>884 >643	L/d 480 360 n/a	PLATES MT20 Weight: 160 lb	GRIP 244/190 FT = 20%F, 11%E
							0	·
BOT CHORD 2x4 SP WEBS 2x4 SP	2 2400F 2.0E(flat) 2 2400F 2.0E(flat) 2 No.3(flat)		BRACING- TOP CHORD BOT CHORD	excep Rigid	ot end vertica	ils. Ily applied o	ectly applied or 6-0-0 o r 10-0-0 oc bracing, I	•
Max G FORCES. (lb) - Max. TOP CHORD 2-3=- 9-10= BOT CHORD 23-24 17-18 WEBS 6-21= 13-18	e) 24=0-3-0, 21=0-3-8, 15=Mechanica rav 24=592(LC 3), 21=2319(LC 1), 15= Comp./Max. Ten All forces 250 (lb) or 1499/188, 3-4=-1499/188, 4-5=-1499/18 -2988/0, 10-11=-3738/0, 11-12=-3799/0 4=0/1180, 22-23=-188/1499, 21-22=-866 3=0/3738, 16-17=0/3740, 15-16=0/2418 =-400/0, 2-24=-1263/0, 2-23=-255/345, 5 5=-2581/0, 13-16=0/1479, 12-16=-444/0, 3=-1103/0, 11-16=-103/478	1031(LC 7) less except when shown. 8, 5-6=0/2160, 6-8=0/211 , 12-13=-3799/0 /461, 19-21=0/1691, 18-1 -21=-1938/0, 5-22=0/1353	3, 8-9=-2992/0, 9=0/3738, 5, 4-22=-411/0,					
 Plates checked for a Refer to girder(s) for Recommend 2x6 str Strongbacks to be a CAUTION, Do not e Hanger(s) or other c 283 lb down at 25-3 	e loads have been considered for this de a plus or minus 1 degree rotation about it truss to truss connections. ongbacks, on edge, spaced at 10-0-0 o ttached to walls at their outer ends or re- rect truss backwards. connection device(s) shall be provided su 3-4 on top chord. The design/selection o S) section, loads applied to the face of th	s center. c and fastened to each tru strained by other means. fficient to support concen f such connection device(trated load(s) 498 lb d s) is the responsibility	own at 1	4-9-12, and		UNITH CA	ROUT

LOAD CASE(S) Standard 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

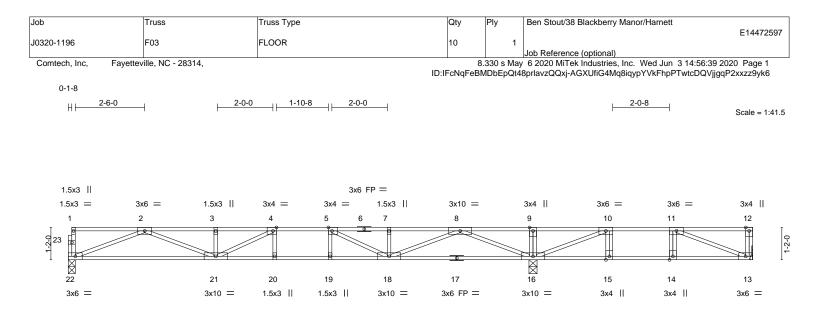
Uniform Loads (plf) Vert: 15-24=-10, 1-14=-100 Concentrated Loads (lb)

Vert: 26=-418(F) 27=-203(F)



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LOADING (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES GRIP TCLL 40.0 Plate Grip DOL 1.00 TC 0.63 Vert(LL) -0.24 20 >824 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 BC 0.84 Vert(CT) -0.33 20 >603 360 BCLL 0.0 Rep Stress Incr YES WB 0.70 Horz(CT) 0.06 13 n/a n/a			16-9-0 16-9-0			16-9-8 0-0-8	19-6-0 2-8-8	21-9-8	24-8-0 2-10-8		
Ciclu 40.0 Plate Grip DOL 1.00 TC 0.63 Vert(LL) 0.024 200 824 480 MT20 244/190 CCLL 0.0 Lumber DOL 1.00 BC 0.84 Vert(LL) -0.24 20 >824 480 MT20 244/190 SCLL 0.0 Rep Stress Incr YES WB 0.70 Horz(CT) 0.06 13 n/a n/a Weight: 122 lb FT = 20%F, 11%I JUMBER- Code IRC2015/TPI2014 Matrix-S BRACING- TOP CHORD 2x4 SP No.1(flat) Weight: 122 lb FT = 20%F, 11%I JUMBER- Code IRC2015/TPI2014 Matrix-S BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. JUMBER- Size 22e-0-3-0, 13=Mechanical, 16=0-3-8 BRACING- TOP CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. REACTIONS. (size) 22e-0-3-0, 13=Mechanical, 16=0-3-8 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. REACTIONS. (size) 22e-0-3-0, 13=Mechanical, 16=0-3-8 BOT CHORD 2-3=-2969/0, 3-4=-2969/0, 4-5=-3261/0, 5-7=-2689/0, 8-9=0/1077, 9-10=-0/1077, 10-11=-638/228	Plate Offsets (X,	Y) [4:0-1-8,Edge], [5:0-1-8,Edge]						1			
TCLL 40.0 Plate Grip DOL 1.00 TC 0.63 Vert(LL) -0.24 20 >824 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 BC 0.84 Vert(CT) -0.33 20 >603 360 MT20 244/190 BCDL 5.0 Code IRC2015/TPI2014 Matrix-S WB 0.06 13 n/a n/a LUMBER- Code IRC2015/TPI2014 Matrix-S BRACING- Weight: 122 lb FT = 20%F, 11%I BOT CHORD 2x4 SP No.1(flat) Exact SP No.3(flat) BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD 2x4 SP No.3(flat) BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing. REACTIONS. (size) 22=0-3-0, 13=Mechanical, 16=0-3-8 Max Uplift BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. DOC CHORD 2-3=-2969/0, 3-4=-2969/0, 4-5=-326/10, 5-7=-2689/0, 8-9=0/1077, 9-10=-0/1077, 10-11=-638/228 BOT CHORD		SPACING- 2-0-0	CSI	DEEL	in (l	loc) l/defl	L/d	PLATES	GRIP		
TCDL 10.0 Lumber DOL 1.00 BC 0.84 Vert(CT) -0.33 20 >603 360 3CLL 0.0 Rep Stress Incr YES WB 0.70 Matrix-S Weight: 122 lb FT = 20%F, 11%I UMBER- Code IRC2015/TPI2014 Matrix-S BRACING- Weight: 122 lb FT = 20%F, 11%I LUMBER- CODE 2x4 SP No.1(flat) Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing. REACTIONS. (size) 22-03-0, 13=Mechanical, 16=0-3-8 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. BOT CHORD 2-3=-2969/0, 3-4=-2969/0, 4-5=-3261/0, 5-7=-2689/0, 7-8=-2689/0, 8-9=0/1077, 9-10=0/1077, 10-11=-638/228 9-01/077, 10-11=-638/228 SOT CHORD 2-3=-2969/0, 3-4=-296/9, 3+14=-228/638, 14-15=-228/638, 14-5=-228/6		200				, ,					
BacLL 0.0 Rep Stress Incr YES Code WB 0.70 Matrix-S Horz(CT) 0.06 13 n/a Weight: 122 lb FT = 20%F, 11%I UMBER- TOP CHORD 2x4 SP No.1(flat) BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing. VEBS 2x4 SP No.3(flat) BCCIONED Structural wood sheathing directly applied or 6-0-0 oc bracing. REACTIONS. (size) 22=0-3-0, 13=Mechanical, 16=0-3-8 Max Uplift 13=-2(LC 3) Max Grav 22=864(LC 10), 13=388(LC 4), 16=1531(LC 9) BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2969/0, 3-4=-2969/0, 4-5=-3261/0, 5-7=-2689/0, 7-8=-2689/0, 8-9=0/1077, 9-10=0/1077, 10-11=-638/228 8-90/1077, 9-10=0/1077, 10-11=-638/228 8-90/1077, 9-10=0/1027, 10-11=-638/288 8-90/10326, 116-18=0/1392, 15-16=-228/638, 14-15=-228/638, 14-15=-228/638 8-10/1479, 7-18=-262/17, VEBS 2-22=-2002/0, 2-21=0/1190, 3-21=-283/0, 8-16=-2237/0, 8-18=0/1479, 7-18=-262/17, 8-262/17, 8-70/1479, 7-18=-262/17,				()							
BCDL 5.0 Code IRC2015/TPI2014 Matrix-S Weight: 122 lb FT = 20%F, 11%l LUMBER- TOP CHORD 2x4 SP No.1(flat) BRACING- TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. NEBS 2x4 SP No.3(flat) BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing. REACTIONS. (size) 22=0-3-0, 13=Mechanical, 16=0-3-8 Max Uplift 13=-2(LC 3) Max Grav 22=864(LC 10), 13=388(LC 4), 16=1531(LC 9) BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. FORCES. (b) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. FORCES. FORCES. FORCES. 100 - CHORD 2-3=-2969/0, 3-4=-2969/0, 4-5=-3261/0, 5-7=-2689/0, 7-8=-2689/0, 8-9=0/1077, 9-10=0/1077, 10-11=-638/228 Sord CHORD 21-22=0/1867, 20-21=0/3261, 18-19=0/3261, 16-18=0/1392, 15-16=-228/638, 14-15=-228/638, 13-14=-228/638 WEBS 2-22=-2002/0, 2-21=0/1190, 3-21=-283/0, 8-16=-2237/0, 8-18=0/1479, 7-18=-262/17, Sord CHORD Sord CHORD				()							
TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD 2x4 SP No.3(flat) BOT CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc bracing. REACTIONS. (size) 22=0-3-0, 13=Mechanical, 16=0-3-8 Max Uplift 13=-2(LC 3) Max Grav 22=864(LC 10), 13=388(LC 4), 16=1531(LC 9) BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. 2-3=-2969/0, 3-4=-2969/0, 4-5=-3261/0, 5-7=-2689/0, 7-8=-2689/0, 8-9=0/1077, 9-10=0/1077, 10-11=-638/228 Son CHORD 2-3=-2969/0, 3-4=-2906/0, 4-5=-3261/0, 5-7=-2689/0, 7-8=-2689/0, 8-9=0/1077, 9-10=0/1077, 10-11=-638/228 Son CHORD 2-3=-2969/0, 3-4=-2906/0, 4-5=-3261/0, 5-7=-2689/0, 7-8=-2689/0, 8-9=0/1077, 9-10=0/1077, 10-11=-638/228 Son CHORD 2-2=-210/1867, 20-21=0/3261, 18-19=0/3261, 16-18=0/1392, 15-16=-228/638, 13-14=-228/638 MEBS 2-22=-2002/0, 2-21=0/1190, 3-21=-283/0, 8-16=-2237/0, 8-18=0/1479, 7-18=-262/17,				()				Weight: 122 lb	FT = 20%F, 11%		
BOT CHORD 2x4 SP No.1(flat) except end verticals. XVEBS 2x4 SP No.3(flat) BOT CHORD REACTIONS. (size) 22=0-3-0, 13=Mechanical, 16=0-3-8 Rigid ceiling directly applied or 6-0-0 oc bracing. REACTIONS. (size) 22=0-3-0, 13=Mechanical, 16=0-3-8 Max Uplift 13=-2(LC 3) Max Grav 22=864(LC 10), 13=388(LC 4), 16=1531(LC 9) Processes Processes FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. Processes TOP CHORD 2-3=-2969/0, 3-4=-2969/0, 4-5=-3261/0, 5-7=-2689/0, 7-8=-2689/0, 8-9=0/1077, 9-10=0/1077, 10-11=-638/228 Processes SOT CHORD 21-22=0/1867, 20-21=0/3261, 18-19=0/3261, 16-18=0/1392, 15-16=-228/638, 13-14=-228/638 Processes SOT CHORD 2-2=2-2002/0, 2-21=0/1190, 3-21=-283/0, 8-16=-2237/0, 8-18=0/1479, 7-18=-262/17, Processes	UMBER-		11	BRACING-							
WEBS 2x4 SP No.3(flat) BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. REACTIONS. (size) 22=0-3-0, 13=Mechanical, 16=0-3-8 Max Uplift Max Uplift 13=-2(LC 3) Max Grav 22=864(LC 10), 13=388(LC 4), 16=1531(LC 9) FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.	OP CHORD	P CHORD 2x4 SP No.1(flat) TOP CHORI					Structural wood sheathing directly applied or 6-0-0 oc purlins,				
REACTIONS. (size) 22=0-3-0, 13=Mechanical, 16=0-3-8 Max Uplift 13=-2(LC 3) Max Grav 22=864(LC 10), 13=388(LC 4), 16=1531(LC 9) FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. FOP CHORD 2-3=-2969/0, 3-4=-2969/0, 4-5=-3261/0, 5-7=-2689/0, 7-8=-2689/0, 8-9=0/1077, 9-10=0/1077, 10-11=-638/228 3OT CHORD 21-22=0/1867, 20-21=0/3261, 18-19=0/3261, 16-18=0/1392, 15-16=-228/638, 14-15=-228/638, 13-14=-228/638 WEBS 2-22=-2002/0, 2-21=0/1190, 3-21=-283/0, 8-16=-2237/0, 8-18=0/1479, 7-18=-262/17,	BOT CHORD		except end verticals.								
Max Uplift 13=-2(LC 3) Max Grav 22=864(LC 10), 13=388(LC 4), 16=1531(LC 9) FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. FOP CHORD 2-3=-2969/0, 3-4=-2969/0, 4-5=-3261/0, 5-7=-2689/0, 7-8=-2689/0, 8-9=0/1077, 9-10=0/1077, 10-11=-638/228 3OT CHORD 21-22=0/1867, 20-21=0/3261, 19-20=0/3261, 18-19=0/3261, 16-18=0/1392, 15-16=-228/638, 14-15=-228/638, 13-14=-228/638 WEBS 2-22=-2002/0, 2-21=0/1190, 3-21=-283/0, 8-16=-2237/0, 8-18=0/1479, 7-18=-262/17,	NEBS 2	2x4 SP No.3(flat)	BOT CHORD	Ri	igid ceiling dir	ectly applied	or 6-0-0 oc bracing.				
TOP CHORD 2-3=-2969/0, 3-4=-2969/0, 4-5=-3261/0, 5-7=-2689/0, 7-8=-2689/0, 8-9=0/1077, 9-10=0/1077, 10-11=-638/228 BOT CHORD 21-22=0/1867, 20-21=0/3261, 19-20=0/3261, 18-19=0/3261, 16-18=0/1392, 15-16=-228/638, 14-15=-228/638, 13-14=-228/638 WEBS 2-22=-2002/0, 2-21=0/1190, 3-21=-283/0, 8-16=-2237/0, 8-18=0/1479, 7-18=-262/17,		Max Uplift 13=-2(LC 3)									
TOP CHORD 2-3=-2969/0, 3-4=-2969/0, 4-5=-3261/0, 5-7=-2689/0, 7-8=-2689/0, 8-9=0/1077, 9-10=0/1077, 10-11=-638/228 BOT CHORD 21-22=0/1867, 20-21=0/3261, 19-20=0/3261, 18-19=0/3261, 16-18=0/1392, 15-16=-228/638, 14-15=-228/638, 13-14=-228/638 WEBS 2-22=-2002/0, 2-21=0/1190, 3-21=-283/0, 8-16=-2237/0, 8-18=0/1479, 7-18=-262/17,	FORCES. (lb)	Max Comp /Max Ten - All forces 250 (lb) or	less except when shown								
9-10=0/1077, 10-11=-638/228 BOT CHORD 21-22=0/1867, 20-21=0/3261, 19-20=0/3261, 18-19=0/3261, 16-18=0/1392, 15-16=-228/638, 14-15=-228/638, 13-14=-228/638 WEBS 2-22=-2002/0, 2-21=0/1190, 3-21=-283/0, 8-16=-2237/0, 8-18=0/1479, 7-18=-262/17,	()	•									
15-16=-228/638, 14-15=-228/638, 13-14=-228/638 WEBS 2-22=-2002/0, 2-21=0/1190, 3-21=-283/0, 8-16=-2237/0, 8-18=0/1479, 7-18=-262/17,				-, ,							
WEBS 2-22=-2002/0, 2-21=0/1190, 3-21=-283/0, 8-16=-2237/0, 8-18=0/1479, 7-18=-262/17,	BOT CHORD		18-19=0/3261, 16-18=0/1	1392,							
4-21=-584/90, 5-18=-889/0, 11-13=-682/244, 10-16=-1269/0	WEBS	2-22=-2002/0, 2-21=0/1190, 3-21=-283/0, 8-1	6=-2237/0, 8-18=0/1479,	7-18=-262/17,							
		4-21=-584/90, 5-18=-889/0, 11-13=-682/244,	10-16=-1269/0								
		oor live leads have been considered for this de	sign								
NOTES- I) Unbalanced floor live loads have been considered for this design.	,	dor invertidads have been considered for this de	- 5								

2) Plates checked for a plus or minus 1 degree rotation about its center.

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13.

5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.



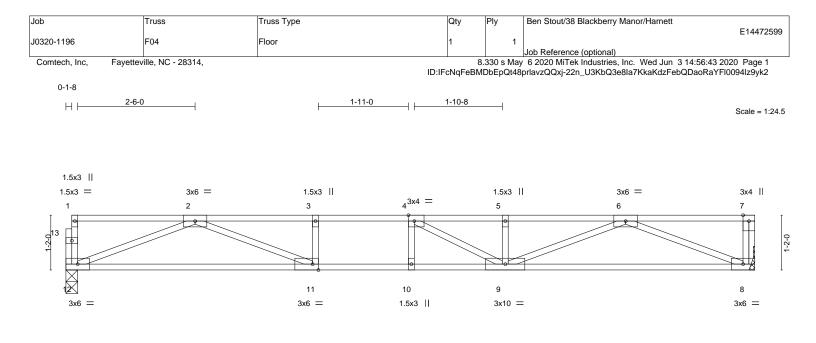
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply Ben	Stout/38 Blackberry Manor/Harr	
J0320-1196	F03G	FLOOR	1	1		E14472598
Comtech, Inc, Fay	etteville, NC - 28314,			3.330 s May 6 20	Reference (optional) 020 MiTek Industries, Inc. Wed	
0-1-8			ID:IFcNqFeBM	DbEpQt48prlavz	zQQxj-arDcHjJzflWHhQY7AspOC	225QjpEXi2b6WNHcYIz9yk3
H <u>−2-6-0</u>	2-0-0	1-10-8 2-0-0			1-2-8 1-2-8 1-2-8 1-2	2-8 1-2-8
						Scale = 1:41.0
		3x6 FP =				
1	3x6 = 2 3	3x4 = 3x4 = 3x4 4 5 6 7	= 6x8 = 8 30	3x10 = 9	= 4x8 = 10 11 12	3x4 13 14 15
T D						व व वि
						1-2-0
28						
28 3x6 =	27 3x10 =	26 25 24 3x10	23 = 3x6 FP =	22 4x12	21 20 19 = $4x4 =$	18 17 16 3x4
				16-9-8		
		<u>16-7-4</u> 16-7-4		<u>16-9-0</u> 0-1-12 0-0-8	24-8-0 7-10-8	
Plate Offsets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge]	, [20:0-1-8,Edge]		0-0-8		
LOADING (psf)	SPACING- 2-0			n (loc) l/def		
TCLL 40.0 TCDL 10.0		00 TC 0.66 00 BC 0.88		26-27 >952 26-27 >699		244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr I Code IRC2015/TPI201	VO WB 0.89 4 Matrix-S	Horz(CT) 0.04			: 128 lb FT = 20%F, 11%E
			PRACINC		Weight.	
LUMBER- TOP CHORD 2x4 SP			BRACING- TOP CHORD		od sheathing directly applied o	or 6-0-0 oc purlins,
BOT CHORD 2x4 SP WEBS 2x4 SP	No.1(flat) No.3(flat)		BOT CHORD	except end ve Rigid ceiling of	erticals. directly applied or 10-0-0 oc bra	acing, Except:
REACTIONS. All be	arings 8-0-12 except (it=lengt	ר) 28=0-3-0		6-0-0 oc brac	ing: 21-22,20-21.	
(lb) - Max U	plift All uplift 100 lb or less at	joint(s) except 21=-409(LC 3), 20=- ss at joint(s) 16, 19, 18, 17 except 22			2/1 C	
Wax G	3)		=2701(EC 1), 22=270	I(LC I), 20=700		
		250 (lb) or less except when shown.				
	2583/0, 3-4=-2583/0, 4-5=-26 0/2715	18/0, 5-7=-1759/0, 7-8=-1764/0, 8-9=	=0/2698,			
BOT CHORD 27-28		6=0/2618, 24-25=0/2618, 22-24=0/43	34, 21-22=-1033/0,			
WEBS 10-22	=-2093/0, 9-22=-305/0, 2-28=	-1781/0, 2-27=0/995, 10-21=0/379, 1				
	=298/0, 4-27=-378/165, 8-22=	-3279/0, 8-24=0/1495, 5-24=-1003/0	1			
NOTES- 1) Unbalanced floor live	e loads have been considered	for this design.				
	MT20 unless otherwise indicat plus or minus 1 degree rotation					
		to bearing plate capable of withstan	nding 409 lb uplift at joir	nt 21 and 722 lt	o uplift	autur.
5) Recommend 2x6 str		10-0-0 oc and fastened to each trus	ss with 3-10d (0.131" X	3") nails.	In Th	A CARO
6) CAUTION, Do not er	ect truss backwards.	ends or restrained by other means.			ALOP.	ESET
		rovided sufficient to support concent evice(s) is the responsibility of others		wn at 14-9-12 (Jan
•		a face of the truss are noted as front			Contraction of the Contraction o	SEAL
LOAD CASE(S) Stand		00 Plata Increase 4.00				036322
Uniform Loads (plf)	alanced): Lumber Increase=1	uu, male increase=1.00				
Vert: 1-15=- Concentrated Loads	100, 16-28=-10 (lb)				E A SA	KONTER X
Vert: 30=-41					11BIC	GINER
					ini.	A. GILD
						June 3,2020

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			14-8-0 14-8-0			
Plate Offsets (X,Y)	[4:0-1-8,Edge], [11:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.60 BC 0.88 WB 0.52 Matrix-S	DEFL. in Vert(LL) -0.23 Vert(CT) -0.33 Horz(CT) 0.04) 9-10 >584 360	PLATES MT20 Weight: 72 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SP	2 No.1(flat) 2 No.1(flat) 2 No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o	,) oc purlins,
REACTIONS. (size Max G	e) 12=0-3-0, 8=Mechanical rav 12=787(LC 1), 8=793(LC 1)					

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

TOP CHORD 2-3=-2652/0, 3-4=-2652/0, 4-5=-2592/0, 5-6=-2592/0

BOT CHORD 11-12=0/1675, 10-11=0/2652, 9-10=0/2652, 8-9=0/1676

WEBS 2-12=-1795/0, 2-11=0/1098, 3-11=-299/0, 6-8=-1803/0, 6-9=0/990, 5-9=-292/0,

NOTES-

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

2) Plates checked for a plus or minus 1 degree rotation about its center.

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

4-9=-448/214

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

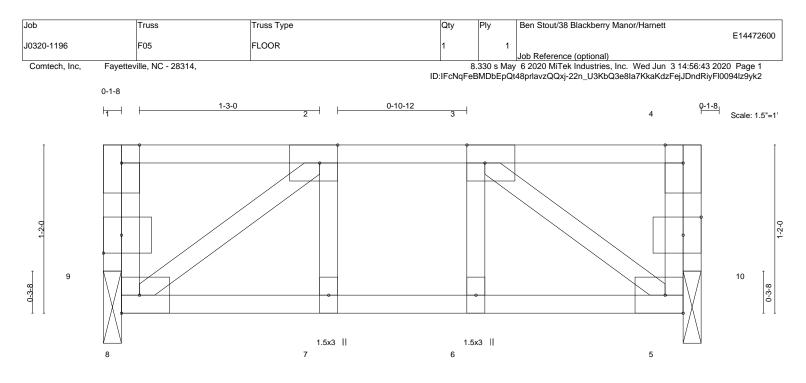
Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



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L			4-1-12			
			4-1-12			
Plate Offsets (X,Y)	[2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,	0-1-8], [10:0-1-8,0-1-8]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.09 BC 0.06 WB 0.05 Matrix-S	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.00	7 >999 360	PLATES MT20 Weight: 24 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SF	P No.1(flat) P No.1(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	, ,,,	2 oc purlins,

REACTIONS. (size) 9=0-1-8, 10=0-1-8

Max Grav 9=207(LC 1), 10=207(LC 1)

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

NOTES-

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

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

4) Bearing at joint(s) 9, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9, 10.

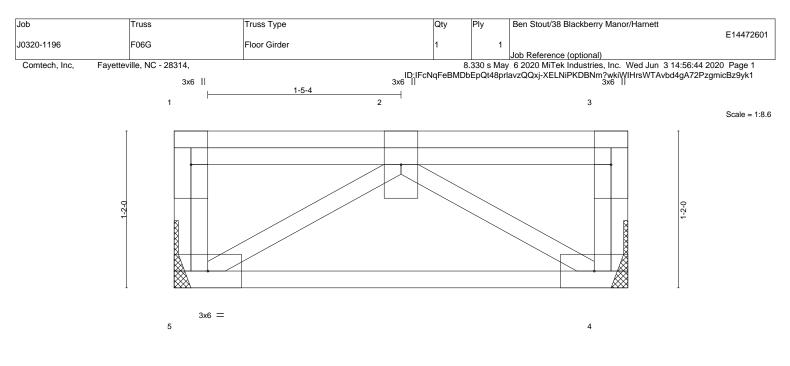
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.



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3x6 =

			<u>3-4-8</u> 3-4-8	———————————————————————————————————————
			5-4-6	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) 0.00 5 **** 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.20	Vert(CT) -0.01 4-5 >999 360	
BCLL 0.0	Rep Stress Incr NO	WB 0.19	Horz(CT) 0.00 4 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-P		Weight: 25 lb FT = 20%F, 11%E
		I	DDAOINO	

LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WEBS

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-4-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 4=Mechanical Max Grav 5=518(LC 1), 4=518(LC 1)

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

BOT CHORD

4-5=0/669 WEBS 2-5=-790/0, 2-4=-790/0

NOTES-

1) Plates checked for a plus or minus 1 degree rotation about its center.

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

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 693 lb down at 1-6-4 on top

chord. The design/selection of such connection device(s) is the responsibility of others.

5) 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

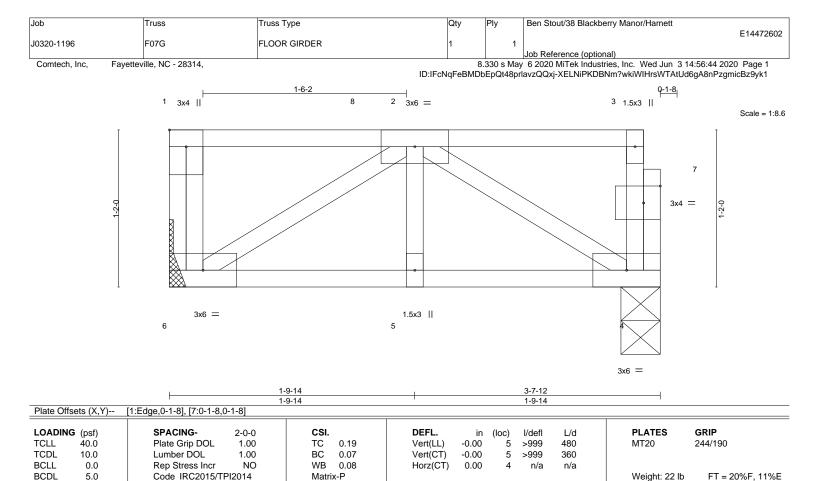
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf) Vert: 4-5=-10, 1-3=-100 Concentrated Loads (lb) Vert: 2=-693(F)



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BRACING-

TOP CHORD

BOT CHORD

N	O	т	F	s	-	

WEBS

LUMBER-

WEBS

TOP CHORD

BOT CHORD

REACTIONS.

BOT CHORD

1) Plates checked for a plus or minus 1 degree rotation about its center.

(size) 6=Mechanical, 4=0-3-8 Max Grav 6=253(LC 1), 4=227(LC 1)

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

3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

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

4) CAUTION. Do not erect truss backwards.

2x4 SP No.1(flat)

2x4 SP No.1(flat)

2x4 SP No.3(flat)

5-6=0/271, 4-5=0/271

2-4=-315/0, 2-6=-318/0

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 4-6=-10, 1-3=-100

Concentrated Loads (lb) Vert: 8=-113



Structural wood sheathing directly applied or 3-7-12 oc purlins,

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

except end verticals.

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818 Soundside Road Edenton, NC 27932

lob	Truss	Truss Type	Qty	Ply	Ben Stout/38 Blackberry M	anor/Harnett	F11170000
10320-1196	KW1	Floor Supported Gable	1	1			E14472603
					Job Reference (optional)		
Comtech, Inc, Fayetter	ville, NC - 28314,		ID:IFcN		/ 6 2020 MiTek Industries, li t48prlavzQQxj-?QvlvlLrygvs		
0-1 ₁ 8							0-1 ₁ 8
							Scale = 1:50.0
			3x6 FP =				
1 2 3	4 5 6	7 8 9 10	11 12 13 14 15	16 1	17 18 19 20	21 22	23 2425
				8		88	52
	***************************************	***************************************		******	********	*****	
50 49 48	47 46 45	44 43 42 41	40 39 38 37 36	35 3	34 33 32 31	30 29	28 27 26
3x4 =			3x6 FP =				3x4 =

			29-11-0					
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.06 BC 0.01	Vert(CT) r	in (loc) l/defl L/d n/a - n/a 999 n/a - n/a 999	PLATES MT20	GRIP 244/190		
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.03 Matrix-R	Horz(CT) 0.4	00 26 n/a n/a	Weight: 124 lb	FT = 20%F, 11%E		
	P No.1(flat) P No.1(flat)	BRACING- TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.					
WEBS 2x4 SP No.3(flat)			BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.				

29-11-0

OTHERS 2x4 SP No.3(flat)

REACTIONS. All bearings 29-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 50, 26, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27

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

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Gable requires continuous bottom chord bearing.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



ob	Truss		Т	russ Type						Qty	Ply	Ben Sto	ut/38 Black	berry Mano	or/Harnett			
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Comtech, Inc, Fay	etteville, NC - 28	3314,							ID:I	FcNqF							6 2020 Pag ziR_Fph3z9y	
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42 41																		

	T		24-8-0			1			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP		
TCLL 40.0	Plate Grip DOL 1.00	TC 0.06	Vert(LL) r	n∕a -	n/a 999	MT20	244/190		
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) r	n/a -	n/a 999				
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.	00 22	n/a n/a				
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R				Weight: 102 lb	FT = 20%F, 11%E		
LUMBER-			BRACING-						
TOP CHORD 2x4 SP No.1(flat)			TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins,					
BOT CHORD 2x4 SF	P No.1(flat)			except e	end verticals.				
WEBS 2x4 SP No.3(flat)			BOT CHORD	Rigid ce	Rigid ceiling directly applied or 10-0-0 oc bracing.				

24-8-0

OTHERS 2x4 SP No.3(flat)

REACTIONS. All bearings 24-8-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23

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

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Gable requires continuous bottom chord bearing.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

> mining ORTH CAR 0 SEAL 036322 GI 100000 June 3,2020

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