

RE: J0520-2222 Ben Stout/2-A Dorroch Rd./Harnett Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Lot/Block:	Project Name:	J0520-2222
Address:		
City:		

Model: Subdivision: State:

# General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Wind Code: N/A Roof Load: N/A psf Design Program: MiTek 20/20 8.3 Wind Speed: N/A mph Floor Load: 55.0 psf

This package includes 10 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E14449934	F01	5/29/2020
2	E14449935	F02	5/29/2020
3	E14449936	F02A	5/29/2020
4	E14449937	F03	5/29/2020
5	E14449938	F03A	5/29/2020
6	E14449939	F04	5/29/2020
7	E14449940	F05	5/29/2020
8	E14449941	FW01	5/29/2020
9	E14449942	FW02	5/29/2020
10	E14449943	FW03	5/29/2020

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

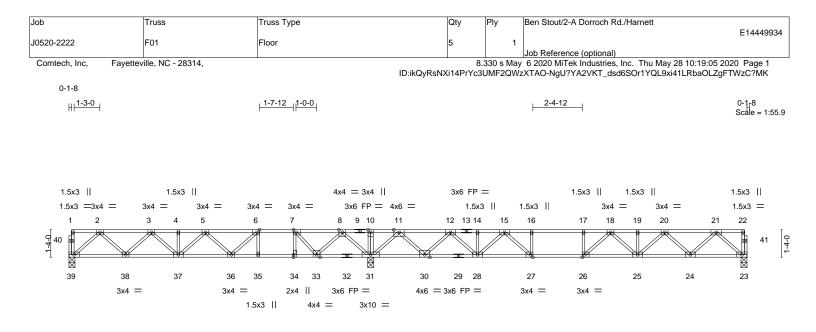
Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. TRENCO has not independently verified the applicability of the design parameters or the design 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.



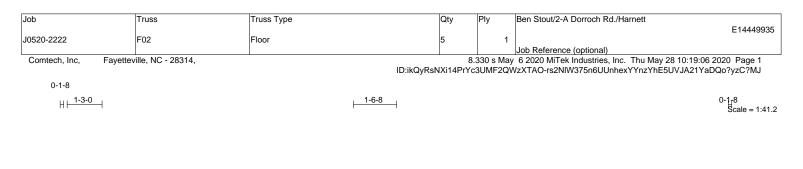


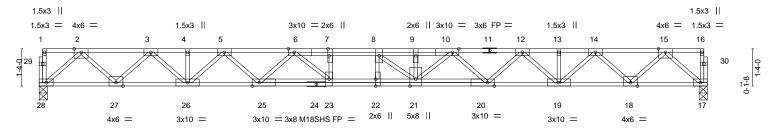
	14-7-12					2-11-0		
Plate Offsets (X,Y)	14-7-12 [6:0-1-8,Edge], [7:0-1-8,Edge], [26:0-1-8	3,Edge], [27:0-1-8,Edge], [	34:0-1-8,0-0-0]		18	8-3-4		
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.85 BC 0.93 WB 0.57 Matrix-S	- ( )	in (loc) -0.26 25-26 -0.36 25-26 0.05 23	l/defl >828 >613 n/a	L/d 480 360 n/a	<b>PLATES</b> MT20 Weight: 172 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
BOT CHORD         2x4 SF           32-39:           WEBS         2x4 SF	<ul> <li><sup>2</sup> No.1(flat)</li> <li><sup>3</sup> No.1(flat) *Except*</li> <li><sup>2</sup> X4 SP 2400F 2.0E(flat)</li> <li><sup>2</sup> No.3(flat)</li> <li><sup>2</sup> 00-3-8, 31=0-3-8, 23=0-3-8</li> </ul>		BRACING- TOP CHORI BOT CHORI	except	end verti	icals.	ectly applied or 2-2-0 o	· · · ·
Max G FORCES. (lb) - Max. TOP CHORD 2-3=- 8-100 15-11 20-2' BOT CHORD 38-33 33-34 26-27 WEBS 2-398 6-366 21-22 18-20	<ul> <li>comp./Max. Ten All forces 250 (lb) or 1258/0, 3-4=-1912/0, 4-5=-1912/0, 5-6=</li> <li>comp./Max. Ten All forces 250 (lb) or 1258/0, 3-4=-1912/0, 4-5=-1912/0, 5-6=</li> <li>comp./Max. Ten All forces 250 (lb) or 1258/0, 37-38=0/1702, 36-37=-43/2104</li> <li>da-534/1549, 31-33=-1251/121, 30-31=-</li> <li>7=0/2899, 25-26=0/2863, 24-25=0/2203, =-1036/0, 2-38=0/666, 3-38=-617/15, 3-5</li> <li>=0/836, 6-35=-549/0, 8-31=-1240/0, 8-33</li> <li>3=-1268/0, 21-24=0/883, 20-24=-855/0, 5=-224/328, 11-31=-1585/0, 11-30=0/12</li> <li>8=-708/0, 15-27=0/875, 16-27=-436/0</li> </ul>	less except when shown. -1948/210, 6-7=-1549/532 7, 12-14=-1906/0, 14-15=- /0, 18-19=-2608/0, 19-20= 1, 35-36=-534/1549, 34-35 777/0, 28-30=0/1274, 27-2 , 23-24=0/954 37=-90/285, 5-37=-261/87 3-0/1072, 7-33=-1379/0, 7 20-25=0/550, 18-25=-347/	1906/0, 2608/0, =-534/1549, 28=0/2408, , 5-36=-399/0, -34=0/642, /0,					
<ul> <li>2) All plates are 3x6 M</li> <li>3) Plates checked for a</li> <li>4) Recommend 2x6 str</li> </ul>	e loads have been considered for this de T20 unless otherwise indicated. a plus or minus 1 degree rotation about i rongbacks, on edge, spaced at 10-0-0 o ttached to walls at their outer ends or re rect truss backwards.	ts center.	iss with 3-10d (0.1	31" X 3") naik	5.	Winnin	SEA 0363	• -

- Constanting G١ 100000 May 28,2020

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 **ANS/TPIT 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





H	7-10-8	11-11-8	13-5-0			23-11-0		
Plate Offsets (X,Y)	7-10-8 [6:0-2-8,Edge], [7:0-3-0,Edge], [10:0-2-7	4-1-0 2,Edge], [20:0-3-0,Edge],	<u> </u>	5:0-3-0,E	dge]	10-6-0		
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.36 BC 0.43 WB 0.56 Matrix-S	Vert(CT) -0	0.50 2	oc) l/defl 22 >777 22 >565 17 n/a	L/d 480 360 n/a	<b>PLATES</b> MT20 M18SHS Weight: 145 lb	<b>GRIP</b> 244/190 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SI	P 2400F 2.0E(flat) P 2400F 2.0E(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	exc	ept end vertion	als.	ectly applied or 6-0-0 c r 10-0-0 oc bracing.	oc purlins,
REACTIONS. (siz Max C	re) 28=0-3-8, 17=0-3-8 Grav 28=1036(LC 1), 17=1036(LC 1)							
TOP CHORD 2-3= 8-9=	. Comp./Max. Ten All forces 250 (lb) or 1984/0, 3-4=-3483/0, 4-5=-3483/0, 5-6= -5543/0, 9-10=-5543/0, 10-12=-4834/0, 1 5=-1984/0	-4883/0, 6-7=-5585/0, 7-8=	,					
	8=0/1136, 26-27=0/2811, 25-26=0/4178, 21=0/5349, 19-20=0/4137, 18-19=0/2809	,	585, 21-22=0/5585,					
WEBS 2-28 6-25 14-1	:=-1511/0, 2-27=0/1180, 3-27=-1150/0, 3 =-707/0, 6-23=-177/572, 7-23=-261/61, 1 8=-1148/0, 14-19=0/930, 12-19=-874/0, =-487/336	-26=0/914, 5-26=-943/0, 5- 5-17=-1511/0, 15-18=0/11	178,					
NOTES-	ve loads have been considered for this de	sian						

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

2) All plates are MT20 plates unless otherwise indicated.

3) All plates are 3x6 MT20 unless otherwise indicated.

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

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.



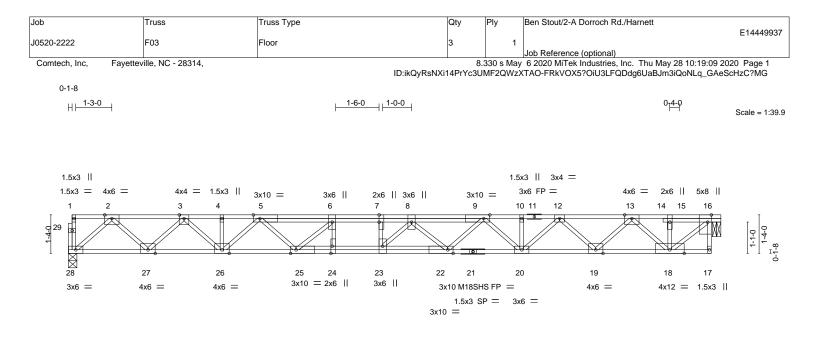
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/2-A Dor	roch Rd./Harnett	
J0520-2222	F02A	GABLE	1	1		E14449936
Comtech, Inc, Faye	etteville, NC - 28314,			Job Reference (op 330 s May 6 2020 MiTek Indu	ustries, Inc. Thu May 28 10	
0-1-8			ID:IKQyRsNXi14PrY	c3UMF2QWzXTAO-nFA7AC4	INaOMCj5r13zbF2znWEl5	8exmr1Xvv3rzC?MH
H <b>⊢</b> <del>1-3-0</del>		<b>⊢</b>	2-4-12			Scale = 1:38.5
4x8 =	3x6 =	3x6 = 3x6 =	3x6 =	4x8 = 3x4    3x6 FP =		3x4
	3 4 5	6 7 8	9 10	11 <u>12</u> 13	14 15 16	17 18
87						
36 35	34 33 32	31 30 29 28	27 26	25 24	23 22 21	20 19
3x6 =	4x8 = 3x6 =	3x10 = 3x8 M18SHS FP = 5x8    3x6	3x6    6x8	= 3x4    3x6 =		3x4
				16-9-4 16-7-12		
	<u>9-10-8</u> 9-10-8	11-1-1 1-3-2		15-9-6 16-7-8 0-10-6 0-10-2 0-0-4	<u>22-9-8</u> 6-0-4	
				0-1-8		
LOADING (psf) TCLL 40.0		7-3 <b>CSI.</b> 00 TC 0.58		(loc) l/defl L/d 28-30 >816 480	PLATES MT20	<b>GRIP</b> 244/190
TCDL 10.0 BCLL 0.0	Rep Stress Incr	00 BC 0.80 NO WB 0.61	Vert(CT) -0.34 Horz(CT) 0.04	28-30 >594 360 19 n/a n/a	M18SHS	244/190
BCDL 5.0	Code IRC2015/TPI201	4 Matrix-S			Weight: 138 lb	FT = 20%F, 11%E
	No.1(flat) *Except*		BRACING- TOP CHORD	Structural wood sheathing	directly applied or 6-0-0	oc purlins,
BOT CHORD 2x4 SP	x4 SP 2400F 2.0E(flat) 2400F 2.0E(flat) *Except* 2x4 SP No.1(flat)		BOT CHORD	except end verticals. Rigid ceiling directly applie	ed or 10-0-0 oc bracing.	
WEBS 2x4 SP	No.3(flat) No.3(flat)					
	arings 6-2-0 except (jt=length	) 36=0-3-8.				
		ss at joint(s) 19, 23, 22, 21, 20 ex	cept 36=1137(LC 1), 24=1	322(LC 1),		
		250 (lb) or less except when show				
8-9=-3	3579/0, 9-10=-2156/0, 10-11=					
28-30	0=0/3579, 27-28=0/3579, 26-2	4=0/2960, 32-33=0/2960, 31-32=( ?7=0/3579, 25-26=0/1173, 24-25=	0/1173			
		990/0, 4-32=0/716, 6-32=-414/0, 06, 9-26=-1820/0, 11-26=0/1279,				
NOTES-						
2) All plates are 1.5x3 M	blates unless otherwise indica MT20 unless otherwise indicat	ed.				
4) Gable studs spaced				0") 1-	, mining	11111
Strongbacks to be at	tached to walls at their outer e	10-0-0 oc and fastened to each ands or restrained by other means		3") naiis.	TH CA	ROLIN
<ol> <li>6) CAUTION, Do not er</li> <li>7) In the LOAD CASE(S</li> </ol>		e face of the truss are noted as fro	ont (F) or back (B).	4	THE PES	
LOAD CASE(S) Stand		00 Plata Increase 1 00				K.
Uniform Loads (plf)	alanced): Lumber Increase=1	.00, Flate Increase=1.00			= SEA = 0363	
ven. 19-36=	=-58(B=-50), 1-18=-80					1
					TO ANGIN	EERA
					SEA 0363	EER. KINN

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.





			-3-0					<u>22-7-</u> 0 0-4-0
Plate Offsets (X,	r) [5:0-2-12,Edge], [7:0-3-0,0-0-0], [9:0-2-{		<u>-3-0</u> [22:0-2-4,Edge], [2	4:0-3-0,Edge	e], [25:0-2-	4,Edge]		0-4-0
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 0.25 BC 0.83 WB 0.81 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.36 22-23 -0.49 22-23 0.01 16	>740 >538	L/d 480 360 n/a	PLATES MT20 M18SHS Weight: 138 lb	<b>GRIP</b> 244/190 244/190 FT = 20%F, 11%E
BOT CHORD 2 WEBS 2 REACTIONS.	x4 SP 2400F 2.0E(flat) x4 SP 2400F 2.0E(flat) x4 SP No.3(flat) (size) 16=0-3-8, 28=0-3-8		BRACING- TOP CHOR BOT CHOR	excep	ot end vert	icals.	rectly applied or 6-0-0 or 10-0-0 or 10-0-0 oc bracing.	oc purlins,
	Max Grav 16=1213(LC 1), 28=1207(LC 1) Max. Comp./Max. Ten All forces 250 (lb) or 2-3=-2289/0, 3-4=-3988/0, 4-5=-3994/0, 5-6= 8-9=-5830/0, 9-10=-4574/0, 10-12=-4568/0, ' 15-16=-1312/0	-5639/0, 6-7=-6036/0, 7-8	8=-6036/0,					
BOT CHORD WEBS	27-28=0/1321, 26-27=0/3228, 25-26=0/5058 20-22=0/5457, 19-20=0/3989, 18-19=0/2395 16-18=0/1708, 2-28=-1757/0, 2-27=0/1346, 3 5-25=0/821, 6-25=-774/0, 13-18=-1471/0, 13 9-20=-1125/0, 9-22=0/493, 8-22=-423/0, 8-23	-27=-1306/0, 3-26=0/103 -19=0/1148, 12-19=-1070	3, 5-26=-1351/0,	.8,				
2) All plates are I	cor live loads have been considered for this de VT20 plates unless otherwise indicated.	əsign.						

3) The Fabrication Tolerance at joint 21 = 11%

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

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.

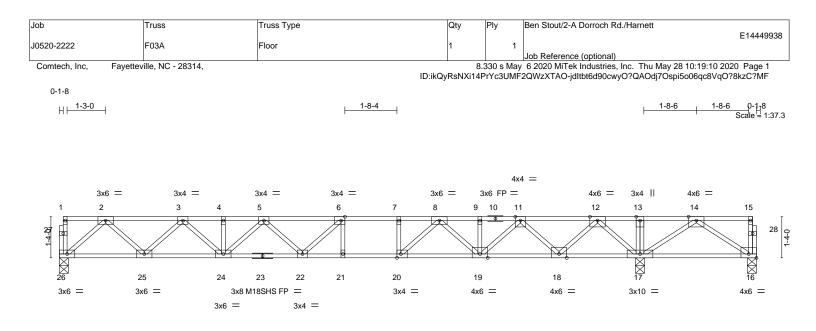
6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

7) CAUTION, Do not erect truss backwards.



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A MITek Affilia 818 Soundside Road Edenton, NC 27932



		<u>18-9-12</u> 18-9-12						-7-0 9-4
Plate Offsets (X,	Y) [6:0-1-8,Edge], [16:Edge,0-1-8], [20:0-1-	-8,Edge]						
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	<b>CSI.</b> TC 0.70 BC 0.71 WB 0.65 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.23 21-22 -0.32 21-22 0.04 17	l/defl >964 >705 n/a	L/d 480 360 n/a	PLATES MT20 M18SHS Weight: 120 lb	<b>GRIP</b> 244/190 244/190 FT = 20%F, 11%E
BOT CHORD WEBS REACTIONS.	2x4 SP No.1(flat) 2x4 SP 2400F 2.0E(flat) *Except* 23-26: 2x4 SP No.1(flat) 2x4 SP No.3(flat) (size) 16=0-3-8, 26=0-3-8, 17=0-3-8 Max Uplift 16=-729(LC 3) Max Grav 26=870(LC 3), 17=2168(LC 1)		BRACING- TOP CHOR BOT CHOR	D Structo excep D Rigid o	t end vert ceiling dir	icals.	rectly applied or 6-0-0 o or 10-0-0 oc bracing, 7.	
FORCES. (Ib) TOP CHORD BOT CHORD WEBS	- Max. Comp./Max. Ten All forces 250 (lb) or 2-3=-1562/0, 3-4=-2520/0, 4-5=-2520/0, 5-6= 8-9=-1480/0, 9-11=-1480/0, 12-13=0/2320, 13 25-26=0/939, 24-25=0/2152, 22-24=0/2846, 2 18-19=0/775, 17-18=-1062/0, 16-17=-1139/0 2-26=-1248/0, 12-17=-1684/0, 2-25=0/867, 12 3-24=0/499, 11-19=0/959, 5-24=-443/0, 8-19= 6-21=-307/0, 7-20=-359/0, 14-17=-1573/0, 14	-2845/0, 6 <sup>-</sup> 7=-2683/0, 7-8 3-14=0/2322 21-22=0/2683, 20-21=0/26 2-18=0/1294, 3-25=-821/0 =-828/0, 8-20=0/905, 6-22	3=-2683/0, 683, 19-20=0/2089 0, 11-18=-1246/0,	9,				
NOTES-								

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

2) All plates are MT20 plates unless otherwise indicated.

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

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 729 lb uplift at joint 16.

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.

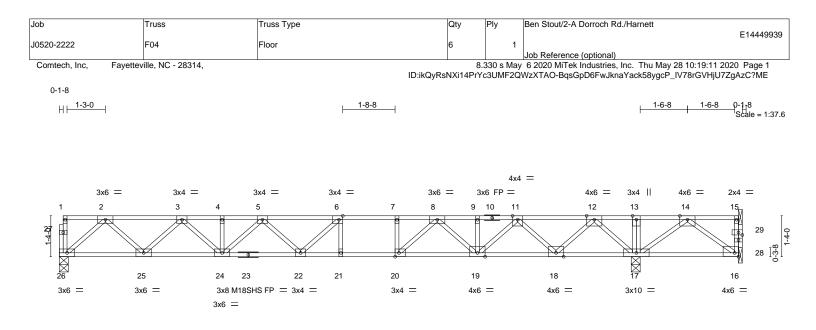
Strongbacks to be attached to walls at their outer ends or restrained by other means.

7) CAUTION, Do not erect truss backwards.



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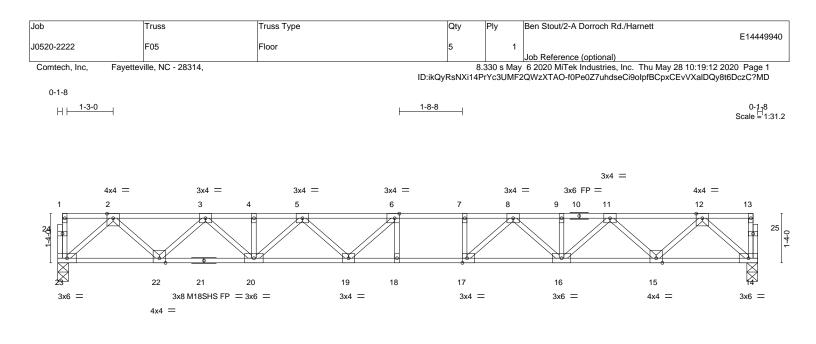
		18-10-0					18-11-8 22-3	
Plate Offsets (X,Y)-	- [6:0-1-8,Edge], [16:Edge,0-1-8], [20:0-1	18-10-0 -8,Edge], [29:0-1-8,0-1-0]					0-1-8 3-4-	0
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	<b>CSI.</b> TC 0.71 BC 0.71 WB 0.67 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.23 21-22 -0.32 21-22 0.04 17	l/defl >960 >702 n/a	L/d 480 360 n/a	PLATES MT20 M18SHS Weight: 119 lb	<b>GRIP</b> 244/190 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 23-3	SP No.1(flat) SP 2400F 2.0E(flat) *Except* 26: 2x4 SP No.1(flat) SP No.3(flat)		BRACING- TOP CHOR BOT CHOR	D Structu except D Rigid c	end verti eiling dire	cals.	ectly applied or 6-0-0 c or 10-0-0 oc bracing, 1 7.	
Ma FORCES. (Ib) - M TOP CHORD 16 7- 30T CHORD 26 18 WEBS 2-	size) 26=0-3-8, 17=0-3-8, 28=0-1-8, 29= x Uplift 28=-843(LC 3) x Grav 26=870(LC 3), 17=2245(LC 1), 29= ax. Comp./Max. Ten All forces 250 (lb) o 5-28=-843/0, 2-3=-1562/0, 3-4=-2519/0, 4-5 8=-2680/0, 8-9=-1469/0, 9-11=-1469/0, 12 5-26=0/939, 24-25=0/2152, 22-24=0/2846, 3-19=0/761, 17-18=-1077/0, 16-17=-1132/0 26=-1248/0, 2-25=0/867, 3-25=-821/0, 3-2	63(LC 1) =ess except when shown. =-2519/0, 5-6=-2845/0, 6- 13=0/2338, 13-14=0/2339 21-22=0/2680, 20-21=0/26 4=0/499, 5-24=-444/0, 6-22	80, 19-20=0/208 2=-154/386,	D,				
8- NOTES- 1) Unbalanced flooi 2) All plates are MT 3) All plates are 1.5 4) Plates checked fi	21=-308/0, 12-17=-1686/0, 12-18=0/1298, 20=0/910, 14-16=0/1417, 7-20=-362/0, 14- i live loads have been considered for this d 20 plates unless otherwise indicated. x3 MT20 unless otherwise indicated. or a plus or minus 1 degree rotation about i ) 28, 29 considers parallel to grain value us no surface.	17=-1620/0 esign. ts center.		ding designer s	should ve	rify	WITH CA	ROUTE

- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 28, 29.
  7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 843 lb uplift at joint 28.
  8) 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.
- 9) 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 **ANS/TPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





			18-11-8				
Plate Offsets (X	.,Y) [6:0-1-8,Edge], [17:0-1-8,Edge]	1	1			1	
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	Plate Grip DOL         1.00           Lumber DOL         1.00           Rep Stress Incr         YES	CSI. TC 0.57 BC 0.64 WB 0.52 Matrix-S	Vert(LL) -0.2	in (loc) l/de 27 18-19 >83 37 18-19 >61 36 14 n/	8 480 2 360	PLATES MT20 M18SHS Weight: 100 lb	<b>GRIP</b> 244/190 244/190 FT = 20%F, 11%I
BOT CHORD	2x4 SP No.1(flat) 2x4 SP 2400F 2.0E(flat) *Except* 21-23: 2x4 SP No.1(flat) 2x4 SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	except end v	erticals.	irectly applied or 6-0-0 or 10-0-0 or 10-0-0 oc bracing.	oc purlins,
REACTIONS.	(size) 14=0-3-8, 23=0-3-8 Max Grav 14=1023(LC 1), 23=1023(LC 1)						
( )	- Max. Comp./Max. Ten All forces 250 (lb)	•					
TOP CHORD	2-3=-1892/0, 3-4=-3178/0, 4-5=-3178/0, 5-6 8-9=-3182/0, 9-11=-3182/0, 11-12=-1893/0		3=-3939/0,				
BOT CHORD	22-23=0/1112, 20-22=0/2641, 19-20=0/364 15-16=0/2637, 14-15=0/1113		3939, 16-17=0/3613,				
WEBS	2-23=-1478/0, 2-22=0/1085, 3-22=-1042/0, 6-19=-470/171, 12-14=-1480/0, 12-15=0/10		,				

18-11-8

6-19=-470/171, 12-14=-1480/0, 12-15=0/1084, 11-15=-1035/0, 11-16=0/741, 8-16=-586/0, 8-17=0/699, 7-17=-284/0

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

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

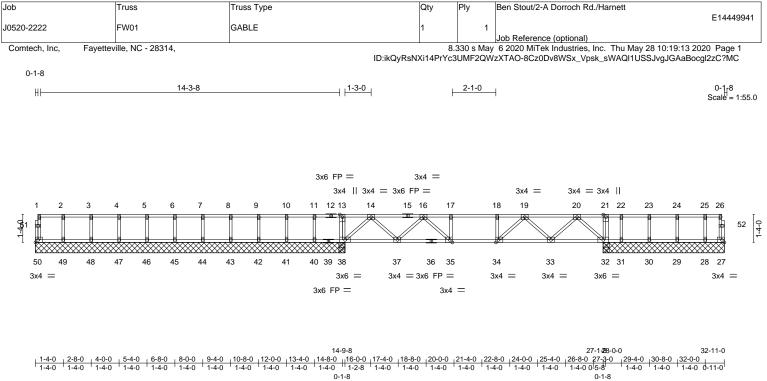
4) Plates checked for a plus or minus 1 degree rotation about its center.

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.



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0-9-0

Plate Offsets (X,Y)	[34:0-1-8,Edge], [35:0-1-8,Edge]	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 0.22	Vert(LL) -0.06 3	34-35 >999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.32	Vert(CT) -0.08 3	34-35 >999	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.02	27 n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S				Weight: 155 lb	FT = 20%F, 11%E
UMBER-		·	BRACING-				
	No.1(flat) No.1(flat)			Structural wood except end vert	•	ectly applied or 6-0-0 o	oc purlins,
	No.3(flat) No.3(flat)		BOT CHORD	Rigid ceiling dir	ectly applied o	or 10-0-0 oc bracing.	

REACTIONS. All bearings 14-9-8 except (jt=length) 27=5-9-8, 32=5-9-8, 32=5-9-8, 31=5-9-8, 30=5-9-8, 29=5-9-8, 28=5-9-8. (lb) - Max Uplift All uplift 100 lb or less at joint(s) 40, 31

Max Grav All reactions 250 lb or less at joint(s) 27, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 31, 30, 29, 28 except 32=802(LC 4), 32=802(LC 1), 38=799(LC 1), 38=799(LC 1)

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

- TOP CHORD 14-16=-1116/0, 16-17=-1727/0, 17-18=-1727/0, 18-19=-1727/0, 19-20=-1112/0
- BOT CHORD 37-38=0/696, 35-37=0/1520, 34-35=0/1727, 33-34=0/1518, 32-33=0/691
- WEBS 20-32=-920/0, 20-33=0/585, 19-33=-564/0, 19-34=0/285, 14-38=-926/0, 14-37=0/586,

16-37=-562/0. 16-35=0/282

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40, 31.

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.
- 7) CAUTION, Do not erect truss backwards.



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Job	Truss		Truss Type			Qty	'	Ply	Ben Stout/2-A	Dorroch Ro	l./Harnett			E14449942
J0520-2222	FW02		Floor Supported G	able		1		1						E14449942
									Job Reference					
Comtech, Inc, Fayettev	ville, NC - 28314,				ID·ik	OvReNXi14P			/ 6 2020 MiTek XTAO-cPXORF					
0.4.0					ID.IK	QyN3NAI14F	11030			SODEDIMINO		ogojnpznin	IJQOIVIDITV	
0-1 <sub>1</sub> 8														0-1 <sub>1</sub> 8
													s	icale = 1:37.1
								3x6 FP =	=					
1 2 3	4	5	6 7	8	9	10	11	12 13	14	15	16	17	18	19
	<del>e</del> e	0	<u>e</u> e	8	0	0	0		9	0	0	0	0	
4 99														▲ <sup>40</sup>
														_H I`
38 37 3	6 35	34	33 32	31	30	29	28	27 26	25	24	23	22	21	20
3x4 =							3	x6 FP =						3x4 =

				22-3-8						
TCDL 1	(psf) 40.0 10.0 0.0 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	<b>CSI.</b> TC 0.06 BC 0.01 WB 0.03 Matrix-R	Vert(CT)	in n/a n/a .00	(loc) - - 20	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 98 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORI BOT CHORI WEBS	D 2x4 SP	No.1(flat) No.1(flat) No.3(flat)		BRACING- TOP CHORD BOT CHORD	e	except e	end verti	cals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,

22-3-8

OTHERS 2x4 SP No.3(flat)

#### REACTIONS. All bearings 22-3-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21

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.

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

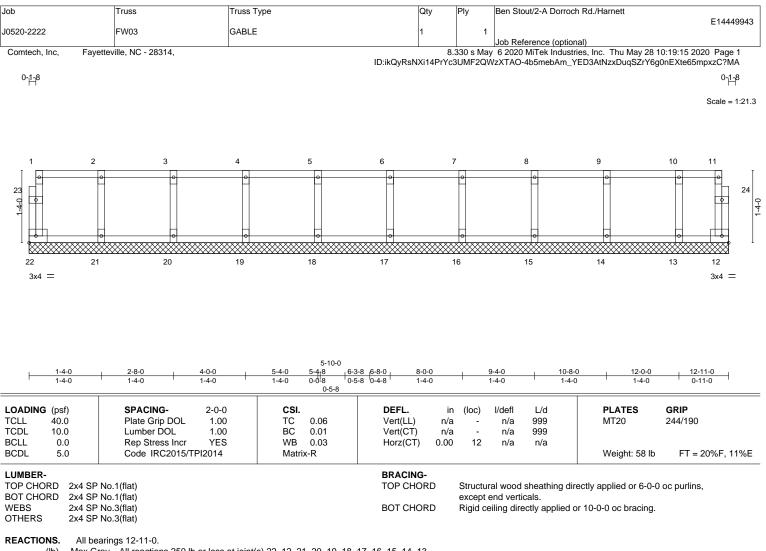
5) Gable studs spaced at 1-4-0 oc.

- 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.
- MILLIN 0 C VIIIIIIVVVV SEAL 036322 C GI 100000 May 28,2020

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<sup>3)</sup> Gable requires continuous bottom chord bearing.



(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) 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.



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