

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 1621630 STURTZ HOMES-ROLLINS 2ND FLR

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

Pages or sheets covered by this seal: E12546398 thru E12546415

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

North Carolina COA: C-0844



December 21,2018

Gilbert, Eric

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



1-6-0	4-0-0	9-6-12	1	12-0-12	14-6-12	16-0-12
1-6-0	2-6-0	5-6-12	1	2-6-0	2-6-0	1-6-0
Plate Offsets (X,Y)	[8:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-1-7-3Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IBC2015/TPI2014	CSI. TC 0.53 BC 0.99 WB 0.46 Matrix-S	DEFL. ir Vert(LL) -0.19 Vert(CT) -0.26 Horz(CT) 0.04	n (loc) I/defl L/d 12-13 >999 360 12-13 >732 240 9 n/a n/a	PLATES MT20 Weight: 80 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 BOT CHORD 2x4 WEBS 2x4	SP No.2(flat) SP No.2(flat) SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing d except end verticals. Rigid ceiling directly applied	irectly applied or 6-0-0 or 10-0-0 oc bracing,) oc purlins, Except:

2-2-0 oc bracing: 13-14,12-13.

REACTIONS. (lb/size) 18=690/0-3-8, 9=690/0-3-8

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

TOP CHORD 1-18=-688/0, 8-9=-687/0, 1-2=-804/0, 2-3=-1918/0, 3-4=-2602/0, 4-5=-2602/0, 5-6=-2502/0, 6-7=-1933/0, 7-8=-799/0

- BOT CHORD 15-17=0/1505, 14-15=0/2327, 13-14=0/2602, 12-13=0/2602, 11-12=0/2346, 10-11=0/1500
- WEBS 8-10=0/968, 1-17=0/974, 7-10=-912/0, 2-17=-912/0, 7-11=0/564, 2-15=0/538, 6-11=-538/0, 3-15=-532/0, 6-12=0/297, 3-14=0/526, 5-12=-329/89

NOTES-

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

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

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.





Job		Truss	Truss Type		Qty	Ply	STURTZ HOMES-ROLLIN	√S 2ND FLR	
									E12546399
1621630		F1E	Floor Supported Gable		1	1	lob Reference (ontional)		
Builders Firs	st Source.	I	1		8.2	220 s Nov	16 2018 MiTek Industries.	Inc. Thu Dec 20 15:08:13	2018 Page 1
	,			ID:o4ssQ	/nCuCZBo	XusHbZG	awyWRuY-K?9sAVzopUG	tfq0M_qfMAvuP?dlak4bU	4v7U0Ry71f0
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	3X3							3	x3 —

L			9-6-0			
			9-6-0			1
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 IBC2015/TPI2014	CSI. TC 0.08 BC 0.02 WB 0.03 Matrix-R	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	(loc) l/defl L/d - n/a 999 - n/a 999 9 n/a n/a	PLATES MT20 Weight: 41 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 BOT CHORD 2x4 WEBS 2x4	SP No.2(flat) SP No.2(flat) SP No.3(flat)	I	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	ectly applied or 6-0-0 r 10-0-0 oc bracing.	oc purlins,

WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)

REACTIONS. All bearings 9-6-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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) Gable requires continuous bottom chord bearing.

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

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

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.







	7-4-0 7-4-0											
LOADING TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IBC2015/TP	1-7-3 1.00 1.00 YES I2014	CSI. TC BC WB Matri:	0.51 0.62 0.29 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.07 0.00	(loc) 8 8 6	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20 Weight: 40 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER-	LUMBER- TOP CHORD 2x4 SP No.2(flat)					BRACING- TOP CHOF	RD	Structu	Iral wood	sheathing di	rectly applied or 6-0-0	oc purlins,

BOT CHORD

except end verticals.

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

TOP CHORD2x4 SP No.2(flat)BOT CHORD2x4 SP No.2(flat)WEBS2x4 SP No.3(flat)

REACTIONS. (lb/size) 11=306/0-3-8, 6=311/Mechanical

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

TOP CHORD 1-11=-301/0, 5-6=-404/0, 1-2=-297/0, 2-3=-498/0, 3-4=-370/0, 4-5=-370/0

BOT CHORD 9-10=0/550, 8-9=0/370, 7-8=0/370

WEBS 1-10=0/356, 2-10=-329/0, 5-7=0/601, 4-7=-274/0

NOTES-

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

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

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

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.





Job	Truss	Truss Type	Qty	Ply	STURTZ HOMES-ROLLINS 2ND FLR	
						E12546401
1621630	F2E	Floor Supported Gable	1	1		
					Job Reference (optional)	
Builders First Source,			8.	220 s Nov	16 2018 MiTek Industries, Inc. Thu Dec 20 15:08:14 2018	Page 1
		ID:o4ss	QVnCuCZ	BoXusHbZ	GawyWRuY-oBjFNr QaoOkH bYYXBbi6Rbf04 TXJdlZt1	IYuy71f?



3x3 = 3x3 ||

1-0-12

			1-0-12			1	
LOADING (psf)	SPACING- 2-0-0 Plate Grip DOI 1.00	CSI.	DEFL. in	(loc) l/c	defl L/d	PLATES	GRIP
TCDL 10.0	Lumber DOL 1.00 Rep Stress Incr YES	BC 0.01	Vert(CT) n/a Horz(CT) 0.00	-	n/a 999 n/a n/a	11120	244/130
BCDL 5.0	Code IBC2015/TPI2014	Matrix-R	11012(01) 0.00	Ū I	ina ina	Weight: 8 lb	FT = 20%F, 11%E
LUMBER-			BRACING-				

TOP CHORD 2x4 SP No.2(flat)

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

Structural wood sheathing directly applied or 1-0-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=39/1-0-12, 3=44/1-0-12

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

NOTES-

1) Gable requires continuous bottom chord bearing.

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

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

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.



December 21,2018

Scale = 1:8.7



⊢	<u>3-9-12</u> 3-9-12							
Plate Offsets (X,Y)	[1:0-1-8,0-0-8], [3:0-2-8,Edge], [5:0-3-0,0	-0-0], [6:0-3-0,Edge], [8:0-1-	8,Edge], [9:0-1-8,Ed	ge], [10:0-2-8,Edge]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-1-7-3Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCode IBC2015/TPI2014	CSI. TC 0.78 BC 0.58 WB 0.99 Matrix-S	DEFL. in Vert(LL) -0.08 Vert(CT) -0.11 Horz(CT) 0.01	(loc) I/defl L/d 9-10 >999 360 9-10 >799 240 7 n/a n/a	PLATES MT20 Weight: 54 lb	GRIP 244/190 FT = 20%F, 11%E		
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S	P No.1(flat) P DSS(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing direct except end verticals. Rigid ceiling directly applied or	ctly applied or 6-0-0 10-0-0 oc bracing.	oc purlins,		

REACTIONS. (lb/size) 12=833/0-3-8, 7=890/Mechanical

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

TOP CHORD 1-12=-824/0, 6-7=-1039/0, 1-2=-1033/0, 2-3=-2520/0, 3-4=-1324/0, 4-5=-1324/0, 5-6=-1324/0

BOT CHORD 10-11=0/1942, 9-10=0/2555, 8-9=0/1324

WEBS 3-10=-414/0, 1-11=0/1258, 2-11=-1155/0, 2-10=0/802, 3-9=-1766/0, 4-9=0/990, 6-8=0/2073, 5-8=-1278/0

NOTES-

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

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) CAUTION, Do not erect truss backwards.

4) CAUTION, DUTION ELECT TUSS DACKWA

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 7-12=-8, 1-6=-80 Concentrated Loads (lb) Vert: 3=-1100



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314. December 21,2018





1			7-7-8			1
Plate Offsets (X,Y)	[5:0-1-8,Edge], [7:0-1-8,Edge]					
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 IBC2015/TPI2014	CSI. TC 0.55 BC 0.72 WB 0.31 Matrix-S	DEFL. in Vert(LL) -0.07 Vert(CT) -0.10 Horz(CT) 0.00	n (loc) I/defl L/d 8 >999 360 8 >904 240 6 n/a n/a	PLATES MT20 Weight: 40 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF	 No.2(flat) No.2(flat) No.3(flat) 		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied or	ctly applied or 6-0-0 10-0-0 oc bracing.	oc purlins,

7-7-8

REACTIONS. (lb/size) 11=319/0-3-8, 6=319/0-3-8

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

TOP CHORD 1-11=-313/0, 5-6=-428/0, 1-2=-314/0, 2-3=-544/0, 3-4=-409/0, 4-5=-409/0

BOT CHORD 9-10=0/583, 8-9=0/409, 7-8=0/409

WEBS 5-7=0/657, 4-7=-319/0, 1-10=0/376, 2-10=-351/0, 3-9=0/252

NOTES-

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

2) 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.







⊢	<u>3-9-12</u> 3-9-12			7-4 3-0	4-0 6-4	
Plate Offsets (X,Y)	[1:0-1-8,0-0-8], [3:0-2-8,Edge], [5:0-3-0,0	0-0-0], [8:0-1-8,Edge], [10:	0-2-8,Edge]			
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 NO Code IBC2015/TPI2014	CSI. TC 0.46 BC 0.31 WB 0.66 Matrix-S	DEFL. in Vert(LL) -0.04 Vert(CT) -0.06 Horz(CT) 0.01	(loc) l/defl L/c 9-10 >999 360 9-10 >999 240 7 n/a n/a	d PLATES D MT20 a Weight: 54 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP	P No.1(flat) P DSS(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood shear except end verticals. Rigid ceiling directly a	thing directly applied or 6-0-0 applied or 10-0-0 oc bracing.) oc purlins,

REACTIONS. (lb/size) 12=736/0-3-8, 7=736/Mechanical

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

TOP CHORD 1-12=-729/0, 6-7=-814/0, 1-2=-718/0, 2-3=-1354/0, 3-4=-891/0, 4-5=-891/0, 5-6=-891/0

BOT CHORD 10-11=0/1343, 9-10=0/1347, 8-9=0/891

WEBS 1-11=0/873, 2-11=-796/0, 3-9=-671/0, 4-9=0/332, 6-8=0/1395, 5-8=-900/0

NOTES-

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

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) CAUTION, Do not erect truss backwards.

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: 7-12=-8, 1-6=-200(F=-120)







1	1-6-0	4-0-0	6-	6-0	1	10-1-0	1	12-7-0		15-1-0	16-7-0
Г	1-6-0	2-6-0	2-	6-0	l	3-7-0	1	2-6-0		2-6-0	1-6-0
LOADIN TCLL TCDL BCU	G (psf) 40.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	1-7-3 1.00 1.00 YES	CSI. TC BC WB	0.40 1.00 0.50	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.19 14-15 -0.26 14-15 0.05 10	l/defl >999 >740 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL	5.0	Code IBC2015/TP	12014	Matrix	-S		0.00 10	n/u	174	Weight: 85 lb	FT = 20%F, 11%E
LUMBER	!-					BRACING-					

TOP CHORD2x4 SP No.2(flat)BOT CHORD2x4 SP No.2(flat)WEBS2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 15-16,14-15.

REACTIONS. (lb/size) 20=713/0-3-8, 10=718/Mechanical

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

TOP CHORD 1-20=-709/0, 9-10=-713/0, 1-2=-831/0, 2-3=-2013/0, 3-4=-2661/0, 4-5=-2782/0, 5-6=-2663/0, 6-8=-2014/0, 8-9=-829/0

BOT CHORD 18-19=0/1562, 16-18=0/2440, 15-16=0/2782, 14-15=0/2782, 13-14=0/2782, 12-13=0/2438, 11-12=0/1564

WEBS 9-11=0/1041, 1-19=0/1006, 8-11=-957/0, 2-19=-952/0, 8-12=0/585, 2-18=0/587, 6-12=-552/0, 3-18=-555/0, 6-13=0/400, 3-16=0/392, 5-13=-431/69, 4-16=-420/66

NOTES-

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

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

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

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 property 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 onlapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

818 Soundside Road Edenton, NC 27932

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Job	Truss	Tru	iss Type		Qt	y	Ply	STURTZ HO	MES-ROLLI	NS 2ND FLR			
												E1254640	6
1621630	F4E	Flo	or Supported Gable		1		1						
								Job Reference	ce (optional)				
Builders First Source,						8.2	220 s Nov	16 2018 MiTe	k Industries,	, Inc. Thu Dec 2	20 15:08:17 2	2018 Page 1	
					ID:04ssQVn	CuCZBo	DXUSHbZ(JawyWRuY-D	mON?s0Isjn	nJ8RK/DfkIKI3	50E6Ugta4_>	(5h8Dy/1ey	
0- <u>1-</u> 8													
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<u>16-7-0</u> 16-7-0								
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 IBC2015/TPI2014	CSI. TC 0.08 BC 0.02 WB 0.03 Matrix-R	DEFL. ii Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	n (loc) l/defl L/d a - n/a 999 a - n/a 999) 16 n/a n/a	PLATES MT20 Weight: 71 lb	GRIP 244/190 FT = 20%F, 11%E		
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF	9 No.2(flat) 9 No.2(flat)		BRACING- TOP CHORD	Structural wood sheathing dir except end verticals.	ectly applied or 6-0-0	oc purlins,		

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

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

REACTIONS. All bearings 16-7-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18, 17

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) Gable requires continuous bottom chord bearing.

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

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

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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100	ITUSS		Thuss Type			aly	гіу	STURIZ HOMES-R	OLLING ZND FLK		E125464	107
1621630	F5		Floor			3	1				L120404	.07
1021030	10					5		Job Reference (option	onal)			
Builders First Source,						8.	220 s Nov	16 2018 MiTek Indus	tries, Inc. Thu Dec 2	0 15:08:18 20)18 Page 1	
,					ID:o4ssQVr	CuCZBo	XusHbZG	awyWRuY-hyyIDC1w	d1vAmbvJnNFXtyc2	yeGKPCxDDE	BrFgfy71ex	
0-1-8											0,7	
H 1-3-0			0-11-8 1-10	0-12 0-7-8				0-7-8 1-1	0-4		0-1 ₁ 8	
											Scale = 1:4	40.0
3x4 =								1.5x3				
1.5x3 =	3x4 =		3x6 =		3x6 FP ==	3x4		4x8 =	1.5x3		1.5x3 =	
1	2	3	4	5	6 7	8		9 10	11 12		13	
929			1	R		- let		TIN 1			30	Ģ
						/					́Щ	1-2
	10	ſ		9 101	<u>1°1</u>		<u>P@4</u>		101	Jot	199	1
区 28 27	26	5	25 24	23 22	21	20	19	区 18 17	16	15	14	
3x6	=			1.5x3	3x4	=3x6 FP	= 4x5	= 4x4 =				

1		16-8-12					23-7-0	
		16-8-12					6-10-4	
Plate Offsets (X,Y)	[17:0-1-8,Edge]				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 DCDL 5.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.96 BC 0.81 WB 0.54	DEFL. in Vert(LL) -0.19 Vert(CT) -0.26 Horz(CT) 0.04	(loc) 24 24 18	l/defl >999 >773 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL 5.0	Code IBC2015/TPI2014	Matrix-5					weight: 119 lb	FI = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF 14-20: WEBS 2x4 SF REACTIONS. (lb/siz	P No.2(flat) P No.1(flat) *Except* 2x4 SP No.2(flat) P No.3(flat) e) 28=686/0-3-8, 14=193/Mechanical	, 18=1163/0-3-8	BRACING- TOP CHORD BOT CHORD	Structu Rigid c	ural wood ceiling dir	sheathing dir ectly applied c	rectly applied, except e or 6-0-0 oc bracing.	end verticals.
FORCES. (Ib) - Max.	Grav 28=686(LC 10), 14=297(LC 4), 18 Comp./Max. Ten All forces 250 (lb) c	=1163(LC 1) r less except when shown						
TOP CHORD 1-28 5-6= 11-12	=-682/0, 13-14=-305/38, 1-2=-795/0, 2- -2364/0, 6-8=-1584/0, 8-9=-291/0, 9-10 2=-392/501, 12-13=-300/64	3=-1917/0, 3-4=-2484/0, 4- =-392/501, 10-11=-392/50	-5=-2565/0, 1,					
BOT CHORD 26-2 19-2	7=0/1492, 25-26=0/2321, 24-25=0/2565 21=0/1074, 18-19=-806/34, 17-18=-822/	6, 23-24=0/2565, 22-23=0/2 26, 16-17=-501/392, 15-16	2565, 21-22=0/2067, δ=-203/504					
WEBS 9-18: 8-21: 5-22:	=-1327/0, 1-27=0/962, 9-19=0/1127, 2-2 =0/687, 3-26=-526/0, 6-21=-650/0, 3-25 =-509/0, 9-17=0/865, 10-17=-396/0, 13-	27=-908/0, 8-19=-1038/0, 2 =0/311, 6-22=0/440, 4-25= 15=-79/360, 12-15=-265/1	2-26=0/553, =-333/82, 81, 12-16=-421/0					
NOTES- 1) Unbalanced floor liv 2) All plates are 3x3 M	e loads have been considered for this c T20 unless otherwise indicated.	esign.						

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

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 14.

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 **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

Job	Truss	Truss Type	Qty	Ply	STURTZ HOMES-ROLLINS	2ND FLR	
1001000	-	F 1	0				E12546408
1621630	ΓO	FIOOF	6	1	Job Reference (optional)		
Builders First Source,	1		8.	220 s Nov	16 2018 MiTek Industries, Inc	. Thu Dec 20 15:08:20 2	018 Page 1
			ID:o4ssQVnCuCZBo2	XusHbZGa	wyWRuY-dL4Weu3B9e9u?v3	8iuoH?yNhPgRx8t7zWhV	KMIYy71ev
0-1-8							
LI_1-3-0	2-0-0 β-7-8	Q-11-8	2-0-0 -7-8		0 <mark>-7-8, 1-1</mark>	0-4	0-1 ₁ 8
	11 1	1 11	11 1		1 11	I	Scale = 1:51.7
		3x4 =			3x6 FP = 1.5x3		
1.5x3 =	3x10 =	3x6 FP ==			3x4 = 4x8 =	1.5x3	1.5x3 =
1 2	3 4	5678	9 10)	11 12 13 14	15 16	17
2,39							40 0-7-
	── <u><u>₩</u>₩<u>∞</u>∦</u>	ti t					
20 27 20		4 20 20 20	27 20 21	- 04		20 40	40
38 37 36	30 34 33 32 3	30 29 28	27 26 25	o 24	23 22 21	20 19	18
1.5x3	II 1.5x3 3x6 FP == 3>	.6 == 1.5x3	1.5x3 3x6	FP 💳	3x6 = 4x4 =		

7-0-0			23-7-0				30-5-4			
Plate Offsets (X,Y) [21:0-1-8,E	Edge]		16-7-0				6-10-4			
LOADING (psf) TCLL 40.0 Plat TCDL 10.0 Lun BCLL 0.0 Rep BCDL 5.0 Coo	ACING- 1-7-3 te Grip DOL 1.00 nber DOL 1.00 o Stress Incr YES de IBC2015/TPI2014	CSI. TC 0.95 BC 0.85 WB 0.50 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.16 28 -0.21 27-28 0.03 18	l/defl >999 >936 n/a	L/d 360 240 n/a	PLATES MT20 Weight: 153 lb	GRIP 244/190 FT = 20%F, 11%E		
LUMBER- BRACING- TOP CHORD 2x4 SP No.2(flat) TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. BOT CHORD 2x4 SP No.2(flat) BOT CHORD BOT CHORD WEBS 2x4 SP No.3(flat) BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.						oc purlins,				
REACTIONS. All bearings Mechanical except (jt=length) 32=0-3-8, 22=0-3-8. (lb) - Max Uplift All uplift 100 lb or less at joint(s) 38, 18 Max Grav All reactions 250 lb or less at joint(s) except 38=268(LC 5), 18=297(LC 5), 32=1168(LC 16), 22=1113(LC 11)										
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-38=-270/37, 17-18=-305/34, 2-3=-381/324, 3-4=-155/573, 5-7=-1372/0, 7-8=-2049/0, 8-9=-2212/0, 9-10=-2085/0, 10-11=-1420/0, 11-13=-256/0, 13-14=-392/480, 14-15=-392/480, 15-16=-392/480, 16-17=-300/59										
WEBS 4-32=-1117/0, 1 3-35=0/343, 13	9-30=0/1822, 28-29=0/2212, 2 2-23=-777/34, 21-22=-792/26, 13-22=-1277/0, 1-37=-117/281 5-23=0/1041, 4-31=0/1053, 11-	7-28=0/2212, 26-27=0/22 20-21=-480/392, 19-20=- , 4-34=0/560, 2-37=-185/2 23=-954/0, 5-31=-990/0,	22 010/0; 12, 24-26=0/1853, 192/504 293, 3-34=-675/0, 11-24=0/608, 0 202/24							
5-30=0/650, 10- 8-29=-394/0, 13 16-20=-410/0	-24=-573/0, 7-30=-613/0, 10-2 3-21=0/856, 14-21=-392/0, 17-	6=0/350, 7-29=0/359, 9-2 19=-72/360, 16-19=-265/	6=-362/31, 173,							
NOTES- 1) Unbalanced floor live loads have 2) All plates are 3x3 MT20 unlesss 3) Refer to girder(s) for truss to tru 4) Provide mechanical connection 5) Recommend 2x6 strongbacks, Strongbacks to be attached to the 6) CAUTION, Do not erect truss be	ve been considered for this de s otherwise indicated. uss connections. n (by others) of truss to bearing on edge, spaced at 10-0-0 of walls at their outer ends or res packwards.	sign. g plate capable of withsta c and fastened to each tru trained by other means.	nding 100 lb uplift a ss with 3-10d (0.13	at joint(s) 38 31" X 3") nai	, 18. Is.	9	NUMERAL SE	AD SUCKET		





Job	Truss	Truss Type	Qty	Ply	STURTZ HOMES-RO	LLINS 2ND FLR
1621630	F7	Floor	2	1		E12546409
Buildoro Firet Sourco				20 0 101	Job Reference (option	al)
Builders First Source,		ID:o4	ssQVnCuCZBoXusl	HbZGawy	WRuY-ZkCG3a4RhFP	cECC40DKT1omqgFcXL1Op8ppSpQy71et
0-1-8						0.4.8
H ⊢ <u>1-3-0</u>	2-0-0 0-7-8	<u>ρ-11</u>	<u>-8 2-0-0 0-7</u>	7-8		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
1.5x3 = 1 2	3x10 =	= 3x4 = 3x6 FP 5 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	= 8 9		3x4 =	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
34 33 3; 1.5> ⊢ <u>1-6-0</u> ⊢	2 31 30 29 3 1.5x3 <u>5-7-8 + 7-0-0 + 8-</u> 4-1-8 + 1-4-8 + 1-	28 27 26 25 $4x5 = 3x6 FP =$ $4-8 + 10-10-8 + 13-4-8$ $4-8 + 2-6-0 + 2-6-0 + -2-6-0$	24 23 1.5x3 1.5x3 <u>17-2-8</u> 3-10-0	22 2	21 +8-8 <u>22-2-8</u> 6-0 <u>2-6-0</u>	$20 19 18 17 16$ $3x6 =$ $+ \frac{23-7-0}{1-4-8} + \frac{27-4-12}{3-9-12} + \frac{27-4-12}{3-9-1$
			DEEL in	(100)		
TCLL 40.0 TCDL 10.0 BCLL 0.0	Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	TC 0.60 BC 0.86 WB 0.51	Vert(LL) -0.16 Vert(CT) -0.22 Horz(CT) 0.03	(100) 23-24 23-24 19	>999 360 >921 240 n/a n/a	MT20 244/190
BCDL 5.0	Code IBC2015/TPI2014	Matrix-S				Weight: 138 lb FI = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP No BOT CHORD 2x4 SP No WEBS 2x4 SP No	0.2(flat) 0.2(flat) 0.3(flat)	E F	BRACING- TOP CHORD BOT CHORD	Structur except e Rigid ce	al wood sheathing dire and verticals. iling directly applied o	ectly applied or 6-0-0 oc purlins, r 6-0-0 oc bracing.
REACTIONS. All bearin (lb) - Max Uplift Max Grav	ngs 0-3-8 except (jt=length) 3 All uplift 100 lb or less at jo All reactions 250 lb or less	4=Mechanical. int(s) 34, 16 at joint(s) 16 except 34=270(LC 5), 29=	1177(LC 16), 19=1	1018(LC	11)	
FORCES. (lb) - Max. Co TOP CHORD 1-34=-27 9-10=-21 BOT CHORD 32-33=-2 27-28- 20-21=0. WEBS 4-29=-11	mp./Max. Ten All forces 25('2/38, 2-3=-388/328, 3-4=-16(49/0, 10-11=-1504/0, 11-12= !28/388, 31-32=-328/388, 30- '905, 25-27=0/1851, 24-25=0, '1056, 19-20=-474/0, 18-19=- !25/0, 12-19=-1111/0, 1-33=-) (lb) or less except when shown. 5/579, 5-6=-1392/0, 6-8=-2088/0, 8-9=-2 -350/0 31=-328/388, 29-30=-918/0, 28-29=-918 /2265, 23-24=0/2265, 22-23=0/2265, 21 490/0 119/284, 4-30=0/562, 2-33=-191/296, 3-	2265/0, 8/0, -22=0/1930, -30=-679/0,			
3-31=0/ 5-27=0/6 8-25=-40	346, 12-20=0/1011, 4-28=0/1 60, 10-21=-554/0, 6-27=-623 7/0, 15-17=-345/78, 12-18=0	064, 11-20=-930/0, 5-28=-1001/0, 11-21 /0, 10-22=0/361, 6-25=0/369, 9-22=-378 /565, 13-18=-261/0	1=0/587, 9/45,			
NOTES- 1) Unbalanced floor live lo 2) All plates are 3x3 MT20 3) Refer to girder(s) for tru 4) Provide mechanical cor 5) Two HTS20 Simpson S connection is for uplift o 6) Recommend 2x6 strong Strongbacks to be attac	ads have been considered fo unless otherwise indicated. ss to truss connections. inection (by others) of truss to trong-Tie connectors recomm nly and does not consider lat backs, on edge, spaced at 10 hed to walls at their outer end	r this design. bearing plate capable of withstanding ' ended to connect truss to bearing walls eral forces. -0-0 cc and fastened to each truss with so r restrained by other means.	100 lb uplift at joint due to UPLIFT at h 3-10d (0.131" X 3	t(s) 34. jt(s) 16. ⁻ 3") nails.	This	HTH CARO

7) CAUTION, Do not erect truss backwards.



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818 Soundside Road Edenton, NC 27932

ENGINEERING B

Job	Truss	Truss Type	Qty	Ply	STURTZ HOMES	-ROLLINS 2ND FLR	E12546410
1621630	F8	Floor	2	1			E12040410
Builders First Source				220 s Nov	Job Reference (o	ptional) Justries Inc. Thu Dec 20.15	-08-23 2018 Page 1
Builders First Source,		ID:o4ss	o. aQVnCuCZBo	Z20 S NOV XusHbZGa	awyWRuY-1wmeG	v53SZXTsMnHawria0J0yfzH	4TQyNTZ0Lsy71es
0-1-8							
H 1-3-0	2-0-0 0-7-8		0-7-8	1-11-	4 0-7-8		
							Scale = 1:39.2
1.5x3 =		4x8 = 3x4 = 3x6 FP =	3x6	=		3x4 =	3x6 =
1	2 3	4 5 6 7	8		9	10 11	12
929				H		12	5-0
1				<u></u>		8	
28 27	26 25 24	⊠ 23 22 21 20	19 18	В	17 16	15	14 13
	1.5x3 1.5x3	4x5 = 3x6 FP = 3x4 =			1.5x3		3x6 =
1-6-0	5-7-8 7-0	0 8-4-8 10-10-8 13-4-1	8	16-11-	4	19-5-4 21-11-4	23-5-4
1-6-0	4-1-8 ' 1-4	8 1-4-8 2-6-0 2-6-0) '	3-6-1	2 .	2-6-0 2-6-0	1-6-0
LOADING (psf)	SPACING- 1-7-3	CSI. DEF	L. in	(loc)	l/defl L/d	PLATES	GRIP
TCLL 40.0 TCDI 10.0	Plate Grip DOL 1.00	TC 0.56 Vert(BC 0.83 Vert	(LL) -0.17 (CT) -0.23	17 17	>999 360 >859 240	MT20	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.52 Horz	(CT) 0.03	13	n/a n/a		
BCDL 5.0	Code IBC2015/TPI2014	Matrix-S				Weight: 119 lb	FI = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP 1	lo.2(flat)	BRA TOP	CING- CHORD	Structur	al wood sheathing	directly applied or 6-0-0 o	oc purlins.
BOT CHORD 2x4 SP 1	No.2(flat) *Except*	DOT		except e	end verticals.		
WEBS 2x4 SP 1	vo.3(flat)	BOI	CHORD	Rigia ce	lling directly appli	ed or 6-0-0 oc bracing.	
REACTIONS. (lb/size)	28=182/Mechanical, 13=669)/Mechanical, 23=1184/0-3-8					
Max Up Max Gra	ift 28=-40(LC 4) av 28=272(LC 3), 13=675(LC 7). 23=1184(LC 1)					
	omn /Max Ten All forces 25	(h) or less except when shown					
TOP CHORD 1-28=-	274/31, 12-13=-670/0, 2-3=-39	6/299, 3-4=-177/538, 5-7=-1507/0, 7-8=-225	7/0,				
8-9=-2 BOT CHORD 26-27=	446/0, 9-10=-2394/0, 10-11=-1 -299/396, 25-26=-299/396, 24	25=-299/396, 23-24=-867/0, 22-23=-867/0,					
20-22=	0/1005, 19-20=0/1979, 18-19=	0/2446, 17-18=0/2446, 16-17=0/2446, 15-16	6=0/2231,				
WEBS 4-23=-	=0/1400 1134/0, 1-27=-106/288, 4-24=0	/547, 2-27=-197/274, 3-24=-655/0, 3-25=0/3	330,				

12-14=0/969, 4-22=0/1092, 11-14=-888/0, 5-22=-1028/0, 11-15=0/520, 5-20=0/681, 10-15=-490/0, 7-20=-640/0, 10-16=0/314, 7-19=0/430, 9-16=-313/140, 8-19=-488/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x3 MT20 unless otherwise indicated.
- 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) 28.
- 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.







			8-0-12			
Plate Offsets (X,Y)	[7:0-1-8,Edge]					
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 IBC2015/TPI2014	CSI. TC 0.64 BC 0.84 WB 0.35 Matrix-S	DEFL. ir Vert(LL) -0.10 Vert(CT) -0.13 Horz(CT) 0.00	n (loc) l/defl L/d 8-9 >959 360 8-9 >704 240 6 n/a n/a	PLATES MT20 Weight: 42 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S WEBS 2x4 S	P No.2(flat) P No.2(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing direc except end verticals. Rigid ceiling directly applied or	tly applied or 6-0-0	oc purlins,

8-0-12

REACTIONS. (lb/size) 11=339/0-3-8, 6=344/Mechanical

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

TOP CHORD 1-11=-331/0, 5-6=-474/0, 1-2=-341/0, 2-3=-616/0, 3-4=-458/0, 4-5=-458/0

BOT CHORD 9-10=0/640, 8-9=0/458, 7-8=0/458

WEBS 5-7=0/744, 4-7=-341/0, 1-10=0/409, 2-10=-390/0

NOTES-

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

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) CAUTION, Do not erect truss backwards.



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⊢			<u>8-0-12</u> 8-0-12			
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.08 BC 0.01	DEFL. in Vert(LL) n/a Vert(CT) n/a	(loc) l/defl L/d - n/a 999 - n/a 999	PLATES MT20	GRIP 244/190
BCDL 5.0	Code IBC2015/TPI2014	Matrix-R	H012(C1) 0.00	8 11/a 11/a	Weight: 36 lb	FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 S BOT CHORD 2x4 S	P No.2(flat) P No.2(flat)		BRACING- TOP CHORD	Structural wood sheathing dire	ectly applied or 6-0-0	oc purlins,
WEBS 2x4 S	P No.3(flat)		BOT CHORD	Rigid ceiling directly applied o	r 10-0-0 oc bracing.	

WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)

REACTIONS. All bearings 8-0-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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) Gable requires continuous bottom chord bearing.

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

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

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.







L			6-8-8					
	6-8-8							
Plate Offsets (X,Y)-	- [8:0-4-8,Edge]							
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 IBC2015/TPI2014	CSI. TC 0.53 BC 0.51 WB 0.27 Matrix-S	DEFL. in Vert(LL) -0.06 Vert(CT) -0.08 Horz(CT) 0.00	(loc) l/defl L/d 8-9 >999 360 8-9 >992 240 6 n/a n/a	PLATES MT20 Weight: 38 lb	GRIP 244/190 FT = 20%F, 11%E		
LUMBER- TOP CHORD 2x4 BOT CHORD 2x4 WEBS 2x4	SP No.2(flat) SP No.2(flat) SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing direc except end verticals. Rigid ceiling directly applied or	tly applied or 6-0-0 10-0-0 oc bracing.	oc purlins,		

REACTIONS. (lb/size) 10=279/Mechanical, 6=284/Mechanical

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

TOP CHORD 1-10=-285/0, 5-6=-356/0, 1-2=-274/0, 2-3=-348/0, 3-4=-345/0, 4-5=-345/0

BOT CHORD 8-9=0/451, 7-8=0/345

WEBS 5-7=0/562, 4-7=-306/0, 1-9=0/328

NOTES-

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

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) 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.

818 Soundside Road Edenton, NC 27932

December 21,2018



TOP CHORD2x4 SP No.2(flat)BOT CHORD2x4 SP No.2(flat)WEBS2x4 SP No.3(flat)

TOP CHORD

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

REACTIONS. (lb/size) 8=148/0-3-8, 5=153/Mechanical

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

NOTES-

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

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) CAUTION, Do not erect truss backwards.



818 Soundside Road Edenton, NC 27932



	<u>3-4-8</u> 3-4-8									
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 1-7- Plate Grip DOL 1.0 Lumber DOL 1.0	-3 CSI. 00 TC 0. 00 BC 0.	D.07 Vert(LL) 0.04 Vert(CT)	in (loc) -0.00 7 -0.00 7	l/defl >999 >999	L/d F 360 M 240	PLATES /IT20	GRIP 244/190		
BCLL 0.0 BCDL 5.0	Rep Stress Incr YE Code IBC2015/TPI2014	S WB 0. 4 Matrix-S	D.07 Horz(CT)	0.00 5	n/a	n/a V	Veight: 22 lb	FT = 20%F, 11%E		
LUMBER-			BRACING-							

TOP CHORD2x4 SP No.2(flat)BOT CHORD2x4 SP No.2(flat)WEBS2x4 SP No.3(flat)

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. (lb/size) 8=137/Mechanical, 5=137/Mechanical

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

NOTES-

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

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.



