

RE: J0121-0108 Lot 6 Sierra Villas Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:Customer:Project Name:Lot/Block:ModAddress:SuboCity:State

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 14 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E14579176	ET1	1/7/2021
2	E14579177	ET2	1/7/2021
3	E14579178	ET3	1/7/2021
4	E14579179	ET4	1/7/2021
5	E14579180	ET5	1/7/2021
6	E14579181	ET6	1/7/2021
7	E14579182	F1	1/7/2021
8	E14579183	F1A	1/7/2021
9	E14579184	F2	1/7/2021
10	E14579185	F3	1/7/2021
11	E14579186	F3A	1/7/2021
12	E14579187	F4	1/7/2021
13	E14579188	F5	1/7/2021
14	E14579189	F6	1/7/2021

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, 2021

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 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.



Gilbert, Eric

Job	Truss	Tru	uss Type		Qty	Ply	Lot 6 Sierra Villas		E14579176
J0121-0108	ET1	Flo	oor Supported Gable		1	1	Job Reference (optiona	al)	L14379170
Comtech, Inc,	Fayetteville, NC - 28314,	I		ID:1GKHP			lay 6 2020 MiTek Indus mz8LdV-mfoc44yBEbf_	tries, Inc. Thu Jul 21	
0 _[1]8									0 ₁ 18
									Scale = 1:18.6
1	2 21	3	4 3x4 =	5 22	6		7	8 23	9
	•	•		•	•		0	0	•
19									20
1-									
					l _e l				
18	17	16	15	14	13		12	11	10
3x6 =	2x6	2x6	2x6	3x6	2x6	Ш	2x6	2x6	3x6 =
0,00 —	200 11	2.00 11	2.0 1		270		2.0 11	2.00	0.0 -

L			11-3-0			
			11-3-0			
Plate Offsets (X,Y)	[4:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.11 BC 0.00 WB 0.04	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	n - n/a 999 n - n/a 999	PLATES MT20	GRIP 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 67 lb	FT = 20%F, 11%E
BOT CHORD 2x4 SP	No.1(flat) No.1(flat)		BRACING- TOP CHORD	Structural wood sheathing dire		oc purlins,
WEBS 2x4 SP	No.3(flat)		BOT CHORD	Rigid ceiling directly applied of	r 10-0-0 oc bracing.	

REACTIONS. All bearings 11-3-0.

2x4 SP No.3(flat)

(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

NOTES-

OTHERS

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.

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

Uniform Loads (plf)

Vert: 10-18=-10, 1-9=-100 Concentrated Loads (lb)

Vert: 4=-26 7=-26 21=-26 22=-26 23=-26



818 Soundside Road Edenton, NC 27932

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job		Truss		Truss Type			Qty	/	Ply	Lot 6 Si	erra Villas				F11570177
J0121-0108		ET2		Floor Suppo	rted Gable		1		1						E14579177
										Job Ref	erence (op	otional)			
Comtech, Inc,	Fayettev	ille, NC - 283	314,			ID:10	GKHPptsUE					ndustries, Inc SmCviEydcj_			
0-1-8															0- <mark>1</mark> -8
															Scale = 1:33.1
						3x4 =			3x6	FP =					
1	2	3	4 5	6	7	8	9	10	11	12	13	14	15	16	17
															36 4 4 5 5 7 7 7 7 7
34	33	32	31 30	29	28 27	26	25	24	:	23	22	21	20	19	18
3x4 =				3x6	=P =		3x4 =								3x4 =

						19-11-0 19-11-0						
Plate Offsets	s (X,Y) [8:0-1-8,Edge], [25:0-1-8,	,Edge]									
TCDL 1	(psf) 40.0 10.0 0.0 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	2-0-0 1.00 1.00 YES Pl2014	CSI. TC BC WB Matrix	0.06 0.01 0.03 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 18	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 90 lb	GRIP 244/190 FT = 20%F, 11%E
LUMBER-TOP CHORD2x4 SP No.1(flat)BOT CHORD2x4 SP No.1(flat)WEBS2x4 SP No.3(flat)OTHERS2x4 SP No.3(flat)					BRACING- TOP CHOR BOT CHOR		except	end verti	cals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.) oc purlins,	

REACTIONS. All bearings 19-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21, 20, 19

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).

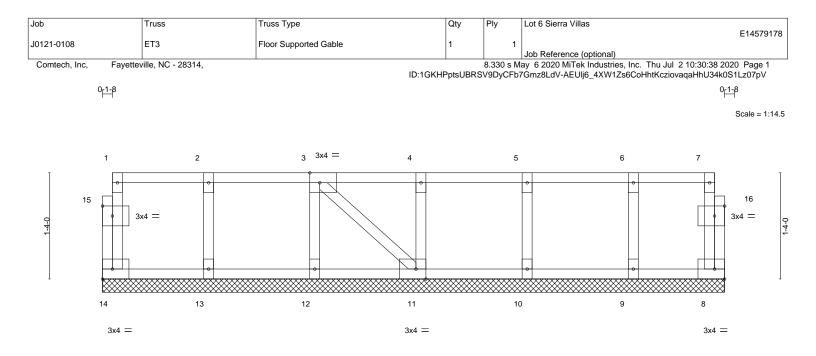
5) Gable studs spaced at 1-4-0 oc.

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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L			7-9-12						
			7-9-12					1	
Plate Offsets (X,Y)	3:0-1-8,Edge], [11:0-1-8,Edge], [15:0-1	-8,0-1-8], [16:0-1-8,0-1-8]							
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.06 BC 0.01 WB 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (l n/a n/a 0.00	loc) l/defl - n/a - n/a 8 n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-P	- (-)				Weight: 39 lb	FT = 20%F, 11%E	
	SP No.1(flat) SP No.1(flat)	BRACING- TOP CHORD		tructural wood	0	ectly applied or 6-0-0) oc purlins,		
WEBS 2x4	SP No.3(flat) SP No.3(flat)		BOT CHORD		Rigid ceiling directly applied or 10-0-0 oc bracing.				

REACTIONS. All bearings 7-9-12.

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

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.

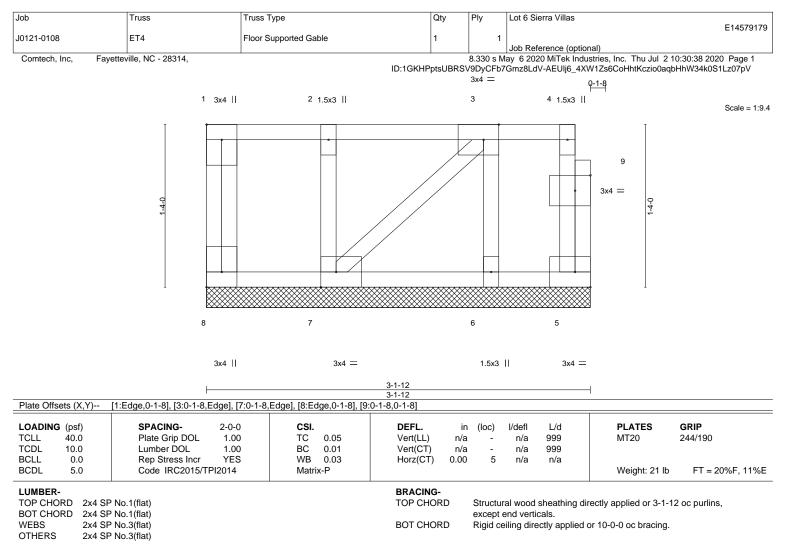
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

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



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 a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
 building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
 is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
 fabrication, storage, delivery, erection and bracing of trusses sand truss systems, see
 ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



REACTIONS. All bearings 3-1-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

NOTES-

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

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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Job	Trus	6	Truss Typ	e		Qty	Ply	Lot 6 S	ierra Villas			E44570400
J0121-0108	ET5		Floor Sup	ported Gable		1		1 Job Re	ference (optional)			E14579180
Comtech, Inc,	Fayetteville, N	IC - 28314,			I	D:1GKHPptsUB			20 MiTek Industries, /-eQ27wS?iHq9QUG			
0- <mark>1-</mark> 8												0- <mark>1</mark> -8
												Scale = 1:27.6
					3x4 =			3x6 FP =				
1 2	3	4	5	6	7	8	9	10 11	12	13	14	15
		•	•	•			0	ø	0	0	0	
30 29	28	27	26 25	5 24	23	22	21	20	19	18	17	16
3x4 =			376	FP =		3x4 =						3x4 =

 			<u> 16-8-4</u> 16-8-4			
Plate Offsets (X,Y)-	- [7:0-1-8,Edge], [22:0-1-8,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 0.06 BC 0.01 WB 0.03 Matrix-S	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	n/a 999 n - n/a 999	PLATES MT20 Weight: 77 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 WEBS 2x4	SP No.1(flat) SP No.1(flat) SP No.3(flat) SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied c) oc purlins,

REACTIONS. All bearings 16-8-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 24, 23, 22, 21, 20, 19, 18, 17

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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Job	Truss	i	Truss Type			Qty	Ply	Lot 6 Sierra Vill	as			E14579181
J0121-0108	ET6		Floor Supp	orted Gable		1	1	Job Reference	(optional)			E14379181
Comtech, Inc,	Fayetteville, N	C - 28314,			ID:1G	KHPptsUBRS\	8.330 s N 9DyCFb7G	lay 6 2020 MiTe mz8LdV-bp9tL8	k Industries,	Inc. Thu Jul 2 NypQ1DbKJ7ns	2 10:30:41 20 HU2DWmiE	20 Page 1 Segz07pS
0 ₁ 18												0 ₁ 18
												Scale = 1:23.4
						3x4 =						
1	2	3	4	5	6	7	8	9		10	11	12
	<u>e</u>	•	<u>e</u>	<u> </u>	•		C	-	•	<u>e</u>	•	26 0-4
	•	•	•			•		-	•	•	•	
24	23	22	21	20	19	18	17	10	6	15	14	13
3x4 =					3x4 =							3x4 =

H			<u>14-2-0</u> 14-2-0			
Plate Offsets (X,Y)-	- [7:0-1-8,Edge], [19:0-1-8,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 0.06 BC 0.01 WB 0.03 Matrix-S	DEFL. ir Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	- n/a 999 - n/a 999	PLATES MT20 Weight: 66 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 WEBS 2x4	SP No.1(flat) SP No.1(flat) SP No.3(flat) SP No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied o		oc purlins,

REACTIONS. All bearings 14-2-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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.

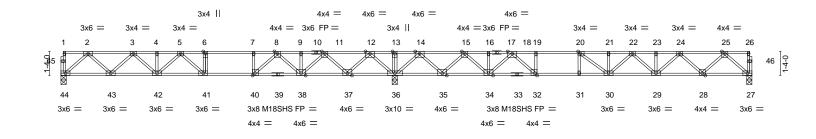


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	Job	Truss	Truss Type	Qty	Ply	Lot 6 Sierra Villas			
	104.04.04.00	F4				E14579182			
	J0121-0108	F1	Floor	4	1	Job Reference (optional)			
L									
	Comtech, Inc, Fayettev	rille, NC - 28314,			8.330 s M	ay 6 2020 MiTek Industries, Inc. Thu Jul 2 10:30:43 2020 Page 1			
			ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-XBHemp2CL2gsyt4m3ESVJ0PT_bLFyopoE0jDiZz07pQ						

0-1-8			
<mark>1-3-0</mark>	2-5-12	<u> 2-3-4</u> <mark>1-6-0</mark>	0-1-8 Scale: 3/16"=1'



H	18-5-12 18-5-12			38-3-0 19-9-4				
Plate Offsets (X,Y)	[20:0-1-8,Edge], [32:0-1-8,Edge], [40:0-	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 0.80 BC 0.81 WB 0.67 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (-0.29 30 -0.40 30 0.06	0-31 >803	360	PLATES MT20 M18SHS Weight: 200 lb	GRIP 244/190 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SP WEBS 2x4 SP	CHORD 2x4 SP 2400F 2.0E(flat) CHORD 2x4 SP 2400F 2.0E(flat) S 2x4 SP No.3(flat)			e	except end ve	rticals.	rectly applied or 6-0-0 or 6-0-0 or 6-0-0 oc bracing.	oc purlins,
FORCES. (lb) - Max. TOP CHORD 2-3=- 8-9=- 14-15 20-21 BOT CHORD 43-44 37-36 31-32	Grav 44=892(LC 3), 36=2438(LC 1), 27= Comp./Max. Ten All forces 250 (lb) or -1605/0, 3-4=-2641/0, 4-5=-2641/0, 5-6= -1892/441, 9-11=-1892/441, 11-12=-406 5=-456/906, 15-16=-2081/315, 16-18=-2 1=-3542/0, 21-22=-3542/0, 22-23=-2935 4=0/962, 42-43=0/2228, 41-42=0/2903, 3 8=-717/1243, 36-37=-1610/0, 35-36=-14 2=0/3345, 30-31=0/3345, 29-30=0/3294	less except when shown -2939/0, 6-7=-2939/0, 7-1 /1021, 12-13=0/2729, 13 :081/315, 18-19=-3345/0, /0, 23-24=-2935/0, 24-25 40-41=0/2939, 38-40=-20 :32/0, 34-35=-596/1360, 3 , 28-29=0/2450, 27-28=0/	8=-2939/0, -14=0/2729, 19-20=-3345/0, =-1764/0 03/2411, 32-34=-69/2687, /1046					
11-37 7-40- 22-3(18-34 20-31 NOTES-	=-1278/0, 2-43=0/894, 3-43=-867/0, 3-42 7=-1257/0, 11-38=0/980, 8-38=-815/0, 8 =-542/0, 25-27=-1390/0, 25-28=0/999, 2 0=0/337, 14-36=-1788/0, 14-35=0/1398, 4=-917/0, 18-32=0/1220, 19-32=-565/0, 1=-280/0	-40=0/1105, 5-42=-357/4 4-28=-954/0, 24-29=0/65 15-35=-1338/0, 15-34=0, 21-30=-351/0, 20-30=-87	6, 5-41=-405/171, 9, 22-29=-488/0, /1066,					
 2) All plates are MT20 3) All plates are 1.5x3 4) Plates checked for a 5) Recommend 2x6 str 	e loads have been considered for this de plates unless otherwise indicated. MT20 unless otherwise indicated. a plus or minus 1 degree rotation about i rongbacks, on edge, spaced at 10-0-0 c uttached to walls at their outer ends or re rect truss backwards.	ts center.		131" X 3")) nails.		SEA 0363	EER AL



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Job	Truss	Truss Type	Q	y Ply	Lot 6 Sierra Villas		
J0121-0108	F1A	Floor	1	1	Lot o Sierra Villas		E14579183
		FIOU			Job Reference (optiona		00.40.0000 D 4
Comtech, Inc, Fay	vetteville, NC - 28314,		ID:1GKHPpts		lay 6 2020 MiTek Indust 7Gmz8LdV-xmzmOr55ez		
0-1-8	1 10 0 1 0 0		0.0				0.1.9
<mark>1-3-0</mark>	<u> 1-10-0</u> <mark>1-0-0</mark>	<mark>1-2-8</mark> <mark>1-2-8</mark> <mark>1-2-8</mark> <mark>1-2-8</mark> <mark>1-2-8</mark>	-9-0		2-1-8		0-1-8 Scale = 1:64.9
	3x4		3 = 4x6 =	3x6 FP =			
3x4 =	3x4 = 3x4 = 3x4 = 3x4 = 6	3x4 3x6 FP = 7 8 9 10 11 12 13		4x4 = 4x4 = 16 17 18		3x4 = 3x4 = 23 24 25	3x6 = 26 27
귀 🖌 🖌							
49 48	47 46 45	44 43 42 41 40 39 38	3 37 36	35 34	33 32 31	30 29	
3x6 = 3x4 =	= 3x4 = 3x4 =	3x6 FP = 6x8 =	5x8 = 4x6 =	4x6 =	4x4 = 3x6 =	= 3x6 = 3x6	6 = 3x6 =
		5x8 = 3x6 2x6 2x6 2x6	j	3x8 M18SH	IS FP =		
	<u> </u>	<u>14-9-8</u> <u>18-7-8</u> 3-10-0 <u>3-10-0</u>			<u>38-3-0</u> 19-7-8		
late Offsets (X,Y)	[5:0-1-8,Edge], [11:0-1-8,Ed	ge], [21:0-1-8,Edge], [33:0-1-8,Edg	e], [40:0-3-0,Edge],	[47:0-1-8,Edge]			
OADING (psf)		-0-0 CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
CLL 40.0 CDL 10.0		1.00 TC 0.67 1.00 BC 0.73	Vert(LL) Vert(CT)	-0.27 31-32 -0.37 31-32	>870 480 >635 360	MT20 M18SHS	244/190 244/190
CLL 0.0 CDL 5.0	Rep Stress Incr Code IRC2015/TPI20	YES WB 0.66 014 Matrix-S	Horz(CT)	0.04 28	n/a n/a	Weight: 215 lb	FT = 20%F, 11%E
UMBER-			BRACING				
OP CHORD 2x4 SI			TOP CHOR		ral wood sheathing dire	ctly applied or 6-0-0 c	oc purlins,
	P 2400F 2.0E(flat) P No.3(flat)		BOT CHOF		end verticals. ailing directly applied or	6-0-0 oc bracing.	
	earings 7-8-0 except (jt=lengt	h) 49-0-3-8 28-0-3-8		Ū		-	
(lb) - Max L	Jplift All uplift 100 lb or less	at joint(s) except 38=-330(LC 4), 39	(<i>//</i>	· · ·			
Max C		ess at joint(s) 39, 40, 42 except 49 4(LC 1), 41=411(LC 7), 28=916(LC		3(LC 3), 44=741	(LC 1),		
ORCES. (Ib) - Max.	. Comp./Max. Ten All forces	250 (lb) or less except when show	'n.				
OP CHORD 2-3=	-906/0, 3-4=-1156/0, 4-5=-11	56/0, 5-6=-785/0, 6-7=-59/520, 7-8 334, 12-13=0/834, 13-14=0/2658, 1	=-47/535,				
16-1	7=-1585/0, 17-19=-1585/0, 1	9-20=-2941/0, 20-21=-2941/0, 21-2					
		4-25=-2729/0, 25-26=-1660/0 7=0/1156, 45-46=0/1156, 44-45=0/	419, 42-44=-423/0,				
		40=-465/0, 38-39=-1801/0, 37-38=- 35=0/2228, 32-33=0/2941, 31-32=0		35.			
29-3	30=0/2296, 28-29=0/992		,	,			
13-3	7=-1519/0, 13-38=-7/293, 11-	360/0, 6-44=-861/0, 6-45=0/536, 5-4 ·40=-71/281, 26-28=-1318/0, 26-29	=0/930,				
		0=-417/0, 23-31=0/277, 15-37=-19' -35=-874/0, 19-33=0/1057, 20-33=					
22-3	1=-314/0, 21-31=-164/547, 13	3-39=0/1342, 8-41=-322/22, 11-39=	-565/0			WH CA	ROUL
IOTES-	a laada haya haan aanaidara	d for this design				NOR ESS	Allis
	ve loads have been considere plates unless otherwise indic	0					Mar
•	MT20 unless otherwise indic a plus or minus 1 degree rota				Ξ	:Q.	1 1 E
) Provide mechanical	connection (by others) of tru	ss to bearing plate capable of withs	tanding 330 lb uplif	t at joint 38, 433	b uplift at	SEA	• -
	rongbacks, on edge, spaced	at 10-0-0 oc and fastened to each		131" X 3") nails.	Ξ	0363	22 <i>;</i> E
•	attached to walls at their outer erect truss backwards.	r ends or restrained by other means	5.				alli
OAD CASE(S) Stan					3	SEA 0363	EFERR
) Dead + Floor Live (balanced): Lumber Increase=	1.00, Plate Increase=1.00				A. G	ILBEIT
Uniform Loads (plf) Vert: 28-49	=-10, 1-27=-100						ly 2,2020
ontinued on page 2						Ju	iny 2,2020
ontinued on page 2	lesign parameters and READ NOTES	S ON THIS AND INCLUDED MITEK REFERE	NCE PAGE MII-7473 rev	5/19/2020 BEFORE	USE.	ENGINEER	ING BY
Design valid for use on a truss system. Before	ly with MiTek® connectors. This designer must verify	n is based only upon parameters shown, an the applicability of design parameters and p	d is for an individual buil roperly incorporate this o	ling component, not esign into the overa	II	TRF	NCO
building design. Bracin is always required for s	g indicated is to prevent buckling of it	ndividual truss web and/or chord members or ossible personal injury and property damage	nly. Additional temporary	and permanent bra egarding the	cing		A MiTek Affiliate
LADUCATION STOLAGE DE	INFOX FLECIOD ADD DIACIDD OF TRUSSES	AUDITUSS SYSTEMS SEE ANSI/TPI	www.criteria_DSR-	s ann BUSI Buildir	III COMPONENT	1 010 0 111 5	

a truss system. Before use, the building designer must verify the applicability of besign parameters and properly incorporate trus besign 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/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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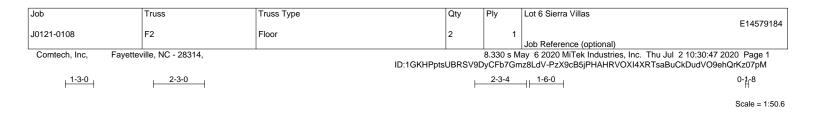
Job	Truss	Truss Type	Qty	Ply	Lot 6 Sierra Villas
					E14579183
J0121-0108	F1A	Floor	1	1	
					Job Reference (optional)
Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries			lay 6 2020 MiTek Industries, Inc. Thu Jul 2 10:30:46 2020 Page 2		
	-	ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-xmzmOr55ez2QpLpKIN0Cwf10IoOD99bFw_ytJuz07pN			

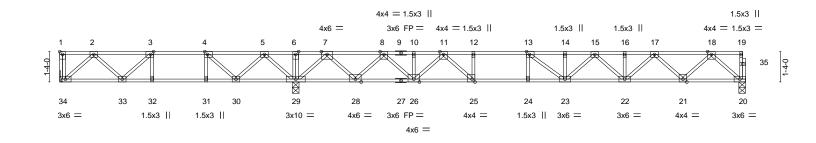
LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 10=-69 12=-69 8=-69 52=-69

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10-4-8				<u>30-1-12</u> 19-9-4				
Plate Offsets (X,Y) [1:Edge,0-1-8], [3	late Offsets (X,Y) [1:Edge,0-1-8], [3:0-1-8,Edge], [4:0-1-8,Edge], [13:0-1-8,Edge], [25:0-							
LOADING (psf)SPACINGTCLL40.0Plate GripTCDL10.0Lumber DUBCLL0.0Rep StressBCDL5.0Code IRC	DOL 1.00 OL 1.00	CSI. TC 0.68 BC 0.74 WB 0.62 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.30 23-24 -0.40 23-24 0.05 20	l/defl L/d >799 480 >583 360 n/a n/a	MT20	GRIP 244/190 7 lb FT = 20%F, 11%E	
LUMBER- TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) WEBS 2x4 SP No.3(flat)		1	BRACING- TOP CHOR BOT CHOR	except	end verticals.	hing directly applied or 6- oplied or 6-0-0 oc bracing		
REACTIONS. (size) 34=Mechanic Max Uplift 34=-9(LC 4) Max Grav 34=496(LC 3	cal, 29=0-3-8, 20=0-3-4 3), 29=1919(LC 1), 20=							
8-10=-2485/0, 10-11=- 14-15=-3751/0, 15-16= BOT CHORD 33-34=-2/520, 32-33=- 28-29=-417/19, 26-28= 22-23=0/3474, 21-22= WEBS 2-34=-693/3, 2-33=-15 4-31=0/281, 7-29=-168 11-25=0/1024, 12-25=	17/369, 4-5=-459/776, 3 -2485/0, 11-12=-3641/0 -3079/0, 16-17=-3079 -369/887, 31-32=-369/0 =0/1798, 25-26=0/3051 0/2558, 20-21=0/1084 41/298, 3-33=-207/348, 33/0, 7-28=0/1302, 8-2 -481/0, 18-20=-1441/0	5-6=0/1682, 6-7=0/1682, 0, 12-13=-3641/0, 13-14= 1/0, 17-18=-1837/0 887, 30-31=-369/887, 29- 1, 24-25=0/3641, 23-24=0	7-8=-924/0, -3751/0, 30=-1066/80, 0/3641, 1, 4-30=-897/0, 11-26=-815/0, 1002/0,					
 NOTES- 1) Unbalanced floor live loads have beer 2) All plates are 3x4 MT20 unless otherw 3) Plates checked for a plus or minus 1 of 4) Refer to girder(s) for truss to truss cor 5) Provide mechanical connection (by ot 6) Recommend 2x6 strongbacks, on edg Strongbacks to be attached to walls a 7) CAUTION, Do not erect truss backwa 	vise indicated. degree rotation about i nnections. thers) of truss to bearir ge, spaced at 10-0-0 c tt their outer ends or re	ts center. ng plate capable of withsta oc and fastened to each tr	russ with 3-10d (0.1			03	EAL 6322	

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Job	Truss	Truss Type	Qty	Ply	Lot 6 Sierra Villas
					E14579185
J0121-0108	F3	Floor	1	1	
					Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,			8.330 s M	ay 6 2020 MiTek Industries, Inc. Thu Jul 2 10:30:48 2020 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

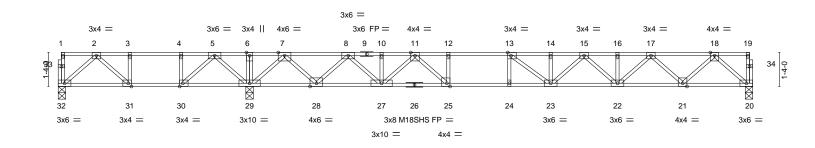
0-1-8

H⊢<u>1-3-0</u> 1-10-12

ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-t94XpX6LAbl83ezjsn2g047Myc4dd4rXNIR_Omz07pL

0-1-8 Scale = 1:45.3

2-3-4 1-6-0



7-6-4 27-3-8						
	7-6-4			19-9-4		
Plate Offsets (X,Y)	[13:0-1-8,Edge], [25:0-1-8,Edge], [30:0-	-1-8,Edge], [31:0-1-8,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 0.66 BC 0.73 WB 0.61 Matrix-S	Vert(LL) -0.30	n (loc) l/defl L/d 23-24 >798 480 23-24 >583 360 20 n/a n/a	PLATES MT20 M18SHS Weight: 143 lb	GRIP 244/190 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SF	2 2400F 2.0E(flat) 2 2400F 2.0E(flat) 2 No.3(flat)	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	, , , ,	oc purlins,	
Max U	e) 32=0-3-8, 29=0-3-8, 20=0-3-8 Jplift 32=-92(LC 4) Grav 32=335(LC 3), 29=1777(LC 1), 20=	=1003(LC 7)				
TOP CHORD 2-3=- 8-10- 14-1! BOT CHORD 31-33 24-2! WEBS 2-32:	Comp./Max. Ten All forces 250 (lb) o -399/449, 3-4=-399/449, 4-5=-399/449, =-2551/0, 10-11=-2551/0, 11-12=-3691/ 5=-3786/0, 15-16=-3104/0, 16-17=-3104/ 2=-136/305, 30-31=-449/399, 29-30=-90 5=0/3691, 23-24=0/3691, 22-23=0/3504 =-403/180, 2-31=-425/128, 5-29=-803/0 =0/1291, 8-28=-1223/0, 8-27=0/940, 18	5-6=0/1366, 6-7=0/1366, 7-8= 0, 12-13=-3691/0, 13-14=-378 //0, 17-18=-1849/0)3/55, 27-28=0/1875, 25-27=0 , 21-22=0/2576, 20-21=0/1090 , 5-30=0/848, 4-30=-436/0, 7-3	36/0, //3112, 0 29=-1658/0,			
17-22	=0/1291, 6-26=1225/0, 6-27=0/940, 16- 2=0/717, 15-22=-545/0, 15-23=0/382, 14 5=-467/0, 13-23=-369/430		,			

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 92 lb uplift at joint 32.

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.

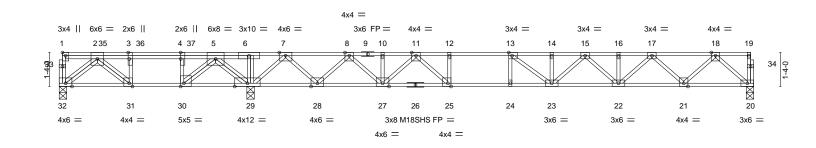
7) CAUTION, Do not erect truss backwards.



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Job	Truss	Truss Type	Qty	Ply	Lot 6 Sierra Villas	
					E	14579186
J0121-0108	F3A	Floor	1	1		
					Job Reference (optional)	
Comtech, Inc,	ayetteville, NC - 28314,			8.330 s M	May 6 2020 MiTek Industries, Inc. Thu Jul 2 10:30:50 2020	Page 1
			ID:1GKHPptsUBI	RSV9DyCF	Fb7Gmz8LdV-qXCHED8ciCYsIy66_C485VCffPjK5zqqrcw5S	fz07pJ
0-1-8						
1-3-0	1-10-12		. 2-3	-1	1-6-0	0-1-8
H ⊢ 1-3-0	1-10-12		2-0			cale = 1:45.3



 	7-6-4	ł	27-3-8					
Plate Offsets (X,Y)	[1:Edge,0-1-8], [3:0-3-0,Edge],	[4:0-3-0,Edge], [13:0-1-8,Edge], [25:0-1-8,Edge], [30:0-1-	8,Edge], [31:0-1-8,	Edge]			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0- Plate Grip DOL 1.0 Lumber DOL 1.0 Rep Stress Incr N Code IRC2015/TPI2014	00 TC 0.84 00 BC 0.84 O WB 0.65	Vert(LL) -0.29	n (loc) l/defl 9 23-24 >813 0 23-24 >593 5 20 n/a	L/d 480 360 n/a	PLATES MT20 M18SHS Weight: 162 lb	GRIP 244/190 244/190 FT = 20%F, 11%E	
BOT CHORD 2x4 SI WEBS 2x4 SI REACTIONS. (siz	P 2400F 2.0E(flat) P 2400F 2.0E(flat) P No.3(flat) ze) 32=0-3-8, 29=0-3-8, 20=0- Grav 32=1672(LC 3), 29=3759(L		BRACING- TOP CHORD BOT CHORD	except end vertie	cals.	rectly applied or 6-0-0 c or 10-0-0 oc bracing, E 9.		
TOP CHORD 2-3= 10-1 15-1 BOT CHORD 31-3 25-2 WEBS 6-29 3-31 18-2	-2390/0, 3-4=-2390/0, 4-5=-239 1=-1807/0, 11-12=-3145/0, 12-1 6=-2837/0, 16-17=-2837/0, 17-1 i2=0/1758, 30-31=0/2390, 29-30 7=0/2440, 24-25=0/3145, 23-24 =-901/0, 2-32=-2276/0, 2-31=0// =-553/0, 7-29=-1882/0, 7-28=0/	=-372/911, 28-29=-911/0, 27-28= =0/3145, 22-23=0/3172, 21-22=0/ 838, 5-29=-2539/0, 5-30=0/2601, 1359, 8-28=-1294/0, 8-27=0/1016 0/625, 15-22=-455/0, 15-23=0/311	0=-1807/0, ;=-3401/0, 0/1064, /2377, 20-21=0/1020 4-30=-1625/0, ;, 18-20=-1356/0,					
 All plates are MT20 All plates are 1.5x3 Plates checked for 1 Recommend 2x6 st Strongbacks to be a CAUTION, Do not e Hanger(s) or other down at 3-2-4, and device(s) is the resp 	attached to walls at their outer ele erect truss backwards. connection device(s) shall be pro 1878 lb down at 5-2-4, and 857 ponsibility of others.	ed.	ntrated load(s) 878 lb do he design/selection of si	wn at 1-2-4, 878 ll		SEA		
Uniform Loads (plf) Vert: 20-32 Concentrated Loads	balanced): Lumber Increase=1.0 2=-10, 1-19=-100				11115	SEA 0363	ERIX	
WARNING - Verify o	design parameters and READ NOTES O	N THIS AND INCLUDED MITEK REFEREN	CE PAGE MII-7473 rev. 5/19/20	020 BEFORE USE.		ENGINEER	ING BY	

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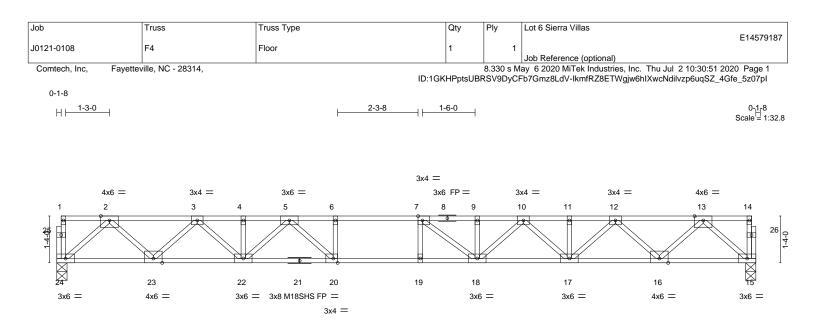


Plate Offsets (X,Y)	[7:0-1-8,Edge], [20:0-1-8,Edge]		19-11-0			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.55	Vert(LL) -0.30	0 18-19 >778 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.69	Vert(CT) -0.42	2 18-19 >567 360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.55	Horz(CT) 0.07	7 15 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 105 lb	FT = 20%F, 11%E
LUMBER-		· ·	BRACING-	.		
	2400F 2.0E(flat) 2400F 2.0E(flat)		TOP CHORD	Structural wood sheathing dire except end verticals.	ectly applied or 6-0-0 o	oc purlins,
WEBS 2x4 SF	PNo.3(flat)		BOT CHORD	Rigid ceiling directly applied of	r 10-0-0 oc bracing.	
REACTIONS. (size Max G	e) 24=0-3-8, 15=0-3-8 rav 24=1075(LC 1), 15=1075(LC 1)					

19-11-0

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

TOP CHORD 2-3=-2007/0, 3-4=-3409/0, 4-5=-3409/0, 5-6=-4324/0, 6-7=-4324/0, 7-9=-4234/0,

9-10=-4234/0, 10-11=-3413/0, 11-12=-3413/0, 12-13=-2005/0

- BOT CHORD 23-24=0/1173, 22-23=0/2804, 20-22=0/3888, 19-20=0/4324, 18-19=0/4324, 17-18=0/3892, 16-17=0/2807, 15-16=0/1172
- WEBS 2-24=-1559/0, 2-23=0/1159, 3-23=-1109/0, 3-22=0/823, 5-22=-650/0, 5-20=0/876, 6-20=-418/0, 13-15=-1558/0, 13-16=0/1159, 12-16=-1116/0, 12-17=0/824, 10-17=-650/0, 10-18=0/466, 9-18=-268/67, 7-18=-603/291

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.

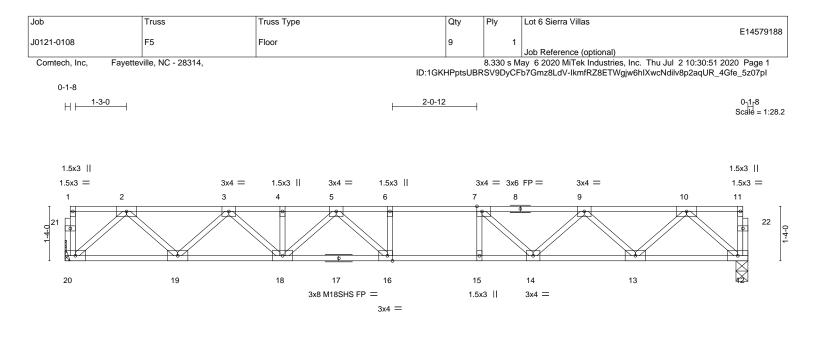
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

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



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 			<u>16-8-4</u> 16-8-4			
Plate Offsets (X,Y)	[7:0-1-8,Edge], [16:0-1-8,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 0.54 BC 0.91 WB 0.43 Matrix-S	Vert(LL) -0.22	n (loc) l/defl L/d 2 16-18 >892 480 0 16-18 >666 360 5 12 n/a n/a	PLATES MT20 M18SHS Weight: 87 lb	GRIP 244/190 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SF	2 No.1(flat) 2 No.1(flat) 2 No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	, ,,,) oc purlins,
REACTIONS. (size Max G	e) 20=Mechanical, 12=0-3-8 Grav 20=898(LC 1), 12=898(LC 1)					

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

- TOP CHORD 2-3=-1619/0, 3-4=-2661/0, 4-5=-2661/0, 5-6=-3022/0, 6-7=-3022/0, 7-9=-2612/0,
- 9-10=-1624/0
- BOT CHORD 19-20=0/970, 18-19=0/2244, 16-18=0/2936, 15-16=0/3022, 14-15=0/3022, 13-14=0/2243, 12-13=0/970
- WFBS 2-20=-1289/0, 2-19=0/903, 3-19=-869/0, 3-18=0/567, 10-12=-1289/0, 10-13=0/909, 9-13=-861/0, 9-14=0/557, 5-18=-374/0, 5-16=-160/451, 7-14=-702/0

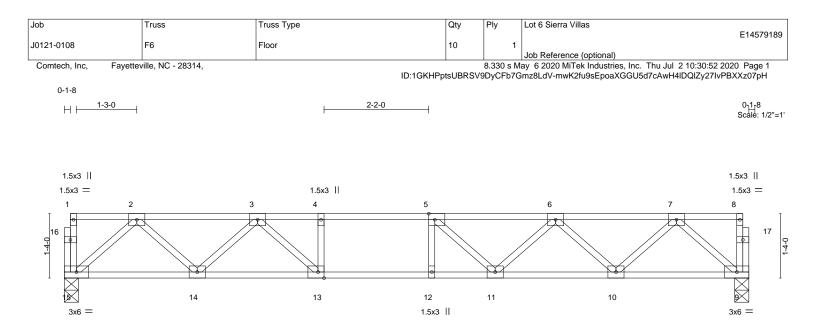
NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 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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			14-2-0			
Plate Offsets (X,Y)	[5:0-1-8,Edge], [13:0-1-8,Edge]		14-2-0			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.54 BC 0.78 WB 0.34	Vert(LL) -0.15	(loc) I/defl L/d 11-12 >999 480 11-12 >854 360 9 n/a n/a	PLATES MT20	GRIP 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		0aa	Weight: 73 lb	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 of	,	oc purlins,

REACTIONS.	(Size)	15=0-3-8, 9=0-3-8
	Max Grav	15=759(LC 1), 9=759(LC 1)

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

TOP CHORD 2-3=-1309/0, 3-4=-2153/0, 4-5=-2153/0, 5-6=-2019/0, 6-7=-1326/0

BOT CHORD 14-15=0/813, 13-14=0/1799, 12-13=0/2153, 11-12=0/2153, 10-11=0/1821, 9-10=0/806

WEBS 2-15=-1080/0, 2-14=0/690, 3-14=-683/0, 3-13=0/649, 7-9=-1070/0, 7-10=0/723,

6-10=-689/0, 6-11=0/352, 5-11=-383/24, 4-13=-299/0

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) 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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