



	R 00/00/0	levisio 00	ns Name
	00/00/0	00	Name
	00/00/0	00	Name
	00/00/0	00	Name
	00/00/0	0	Name
SS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE.	<b>THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.</b> These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for the building designer.	is responsible for temporary and permanent bracing of the purluing designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The disign of the tuss support structure including headers, beams, walls, and columns is the responsibility of the	building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Madison, WI 53179
			umber
MENSIONS ARE READ AS: FOOT-INCH-SI)			
OADS	nes	¥	NT PLAN
TED TOGETHER PRIOR TO ADDING ANY LOADS.	Glenwood Homes	Forsyth 1 GRH	FLOOR PLACEMENT PLAN
DNNECTED TOGETHER PRIOR TO ADDING ANY LOADS.	Cale:	Forsyth 1 GRH	FLOOR PLACEMENT PLAN
LLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.	Scale:	Forsyth 1 GRH	FLOOR PLACEMENT PLAN
BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.	Scale: Date: 1/ Blak	Forsyth 1 GRH	FICOR PLACEMENT PLAN
MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.	Scale: Date: 1/ Blak 250	Forsyth 1 GRH	FIOOR PLACEMENT PLAN
DERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.	Scale: Date: 1/ Blak 250	Forset Nu Broject Nu Sheet Nu	FLOOR PLACEMENT PLAN
GIRDERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.	Scale: Date: 1/ Blak 250	Forsy 1 GRH	FICOR PLACEMENT PLAN 1 1 1 1 1 1 1 1 1 1 1 1 1

24" Beam in Lieu of 22" > UUUUUUUU



Kempsville Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450

# Builder: Glenwood Homes Model:Forsyth Elev 1 GRH Lot 4 Carolina Seasons



# THE PLACEMENT PLAN NOTES:

1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.

2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.

3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.

4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.

5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.

6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.

7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.

8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.



# RE: 25010103

Install 4 Carolina Seasons-2nd Floor-Forsyth 1 GRH

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Glenwood Homes	Project Name: 25010103
LUI/DIUCK. 4	Model: Forsyllin I GRH
Address: 21 Green Links Dr	Subdivision: Carolina Seasons
City: Cameron	State: NC

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

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.6 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 25 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	164429504	F109	3/25/2024	21	164429524	F211	3/25/2024
2	164429505	F111	3/25/2024	22	164429525	F214	3/25/2024
3	164429506	F101	3/25/2024	23	164429526	F209	3/25/2024
4	164429507	F102	3/25/2024	24	164429527	F208	3/25/2024
5	164429508	F103	3/25/2024	25	164429528	F21	3/25/2024
6	164429509	F104	3/25/2024				
7	164429510	F105	3/25/2024				
8	164429511	F106	3/25/2024				
9	164429512	F107	3/25/2024				
10	164429513	F108	3/25/2024				
11	164429514	F110	3/25/2024				
12	164429515	F201	3/25/2024				
13	164429516	F202	3/25/2024				
14	164429517	F203	3/25/2024				
15	164429518	F204	3/25/2024				
16	164429519	F205	3/25/2024				
17	164429520	F206	3/25/2024				
18	164429521	F210	3/25/2024				
19	164429522	F212	3/25/2024				
20	164429523	F207	3/25/2024				

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

Truss Engineering Co. under my direct supervision

based on the parameters provided by Carter Components (Sanford, NC)).

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2025

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.



Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F109	Floor Girder	1	1	Job Reference (optional)	164429504

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:01 ID:??xr3TrXIsOEp3Xt3O1SJ5zHz?8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:24.7

# Plate Offsets (X, Y): [2:0-1-8,Edge], [7:0-1-8,Edge]

L <b>oading</b> TCLL TCDL 3CLL 3CDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 NO IRC2018	/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.92 0.95 0.22	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.12 -0.17 0.01	(loc) 6-7 6-7 6	l/defl >686 >493 n/a	L/d 360 240 n/a	<b>PLATES</b> MT20 Weight: 40 lb	<b>GRIP</b> 244/190 FT = 20%F, 1 <sup>-7</sup>	1%E
LUMBER TOP CHORD SOT CHORD WEBS DTHERS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 6=0-3-8, § Max Grav 6=498 (LC (lb) - Maximum Com Tension 1-9=-38/51, 5-6=-56 3-4=-760/0, 4-5=-3/ 8-9=0/760, 7-8=0/76 4-6=-733/0, 2-9=-90 2-8=0/179, 3-7=-223	athing directly applic cept end verticals. applied or 10-0-0 o 0=0-3-8 C 4), 9=485 (LC 1) pression/Maximum /0, 1-2=0/0, 2-3=-76 ) 0, 6-7=0/611 7/0, 4-7=0/315, //0	1) ed or c 0/0,	Dead + Flor Plate Increa Uniform Loz Vert: 6-9: Concentrate Vert: 3=-2	br Live (balanced): ase=1.00 ads (lb/ft) =-10, 1-5=-100 ed Loads (lb) 200 (B)	Lumber	Increase=1.	00,						
<ul> <li>this design</li> <li>this design</li> <li>This truss Internation</li> <li>R802.10.2</li> <li>Recommendation</li> <li>Recommendation</li> <li>Recommendation</li> <li>Recommendation</li> <li>(0.131" X at their out</li> <li>CAUTION</li> <li>Use Simp or equival (es) to base</li> <li>Fill all naii</li> <li>fill all naii</li> <li>of the trus</li> </ul>	n. is designed in accorda aal Residential Code sv 2 and referenced stand md 2x6 strongbacks, o oc and fastened to eac 3") nails. Strongbacks ter ends or restrained I, Do not erect truss ba son Strong-Tie THA42 ent at 3-5-4 from the le ck face of top chord. holes where hanger is AD CASE(S) section, lo s are noted as front (F S) Standard	ance with the 2018 ections R502.11.1 a ard ANSI/TPI 1. n edge, spaced at th truss with 3-10d to be attached to w by other means. ckwards. 2 (Single Chord Girr fit end to connect tru th end to connect tru th contact with lum bads applied to the f ) or back (B).	nd alls der) iss ber. ace							And the transferred		SEA 0363	ROUTER 222	Mannung



March 25,2024

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Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F111	Floor Girder	1	1	Job Reference (optional)	164429505

#### Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:01 ID:??xr3TrXIsOEp3Xt3O1SJ5zHz?8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



0-2-0 Н 1-8-0 0-8-0 **THA422** THA422 3x5 = 3x5 = 3x5 II 1.5x3 u 3x5 II





1-4-0



Scale = 1:33.6

Plate Offsets (X, Y): [2:0-1-8,Edge], [7:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00		тс	0.54	Vert(LL)	-0.01	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00		BC	0.16	Vert(CT)	-0.01	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	NO		WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2018/	TPI2014	Matrix-MSH							Weight: 28 lb	FT = 20%F, 11%E
								-				•	
LUMBER			1)	Dead + Floo	or Live (balanced):	Lumbe	Increase=1	.00,					
TOP CHORD	2x4 SP No.2(flat)			Plate Increa	se=1.00								
BOT CHORD	2x4 SP No.2(flat)			Uniform Loa	ads (Ib/ft)								
WEBS	2x4 SP No.3(flat)			Vert: 6-9=	=-10, 1-5=-100								
BRACING				Concentrate	ed Loads (lb)								
TOP CHORD	Structural wood she	athing directly applie	ed or	Vert: 3=-8	38 (F), 10=-91 (F)								
	3-11-0 oc purlins, e	xcept end verticals.											
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	>										
REACTIONS	(size) 6=0-3-8, 9	9= Mechanical											
	Max Grav 6=372 (LC	C 4), 9=300 (LC 4)											
FORCES	(lb) - Maximum Com	pression/Maximum											
	Tension	•											
TOP CHORD	1-9=-22/14, 5-6=-12	9/0, 1-2=0/0, 2-3=-2	30/0,										
	3-4=-230/0, 4-5=0/0												
BOT CHORD	8-9=0/230, 7-8=0/23	80, 6-7=0/340											
WEBS	4-6=-410/0, 2-9=-39	9/0, 4-7=-212/0,											
	2-8=0/78, 3-7=0/139	1											
NOTES													
1) Unbalance	ed floor live loads have	been considered fo	r										
this desigr	۱.												
2) Refer to gi	irder(s) for truss to trus	s connections.										, mmm	1111
3) This truss	is designed in accorda	ance with the 2018										White CA	Dalle
Internation	nal Residential Code se	ections R502.11.1 a	nd								1	in TH ON	TO/ 11-
R802.10.2	and referenced stand	ard ANSI/TPI 1.									1	OFFESS	in Allen
4) Recomme	nd 2x6 strongbacks, o	n edge, spaced at								/	$\leq \geq$	. OFLOG	Man
10-00-00 0	oc and fastened to eac	h truss with 3-10d								4	Ì		2. 2
(0.131" X 3	3") nails. Strongbacks	to be attached to wa	alls										
at their out	ter ends or restrained l	by other means.								=	:	SEA	L : =
5) Use Simps	son Strong-Tie THA42	2 (Single Chord Gird	ier)							=	:	0262	aa : =
or equivale	ent spaced at 1-6-0 oc	max. starting at 1-4	-4							1	<b>-</b> -	0303.	22 : :
face of ten	end to 2-10-4 to con	inect truss(es) to irol	nt								- e		1
6) Fill all pail	holes where hanger is	in contact with lumb	or								2	·	all S
7) In the $I \cap A$	AD CASE(S) section Ic	ads applied to the f	ace								20	NGINI	ENAN
of the true	s are noted as front (F	) or back (B)									11	710	THE AND
	Standard	, c. 2000 (D).									1	A G	ILD
LOAD CASE(	J Stanuaru											11111	un un
													C. B. C. State of C. S.

# March 25,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Science Use Component Categories (http://www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F101	Floor Supported Gable	1	1	Job Reference (optional)	164429506

0-<sub>1</sub>-8



#### Scale = 1:25.9

<b>Loading</b> TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES IRC2018	8/TPI2014	<b>CSI</b> TC BC WB Matrix-MR	0.08 0.01 0.03	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 12	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 60 lb	<b>GRIP</b> 244/190 FT = 20%F, 11 <sup>0</sup>	%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she: 6-0-0 oc purlins, exit Rigid ceiling directly bracing. (size) 12–13-16	athing directly applie cept end verticals. applied or 10-0-0 oc 3 13-13-1-8 14-13	6) 7) LC ed or	Recommend 10-00-00 oc ; (0.131" X 3") at their outer CAUTION, D DAD CASE(S)	2x6 strongbacks, , and fastened to ea nails. Strongback ends or restrained o not erect truss b Standard	on edge ch truss s to be by othe ackward	e, spaced at s with 3-10d attached to wa er means. ds.	alls						
REACTIONS	(size) 12=13-1-8 15=13-1-8 21=13-1-8 Max Grav 12=51 (LC 14=151 (L 16=147 (L 18=147 (L 20=147 (L 22=54 (LC	s, 13=13-1-8, 14=13 8, 16=13-1-8, 17=13 8, 19=13-1-8, 20=13 9, 22=13-1-8 10, 13=129 (LC 1), .C 1), 15=146 (LC 1) .C 1), 15=146 (LC 1) .C 1), 19=146 (LC 1) .C 1), 21=145 (LC 1) .C 1), 21=145 (LC 1) .C 1)	-1-8, -1-8, -1-8, ), ), ), ),											
FORCES	(lb) - Maximum Com Tension	pression/Maximum	- 10											
TOP CHORD	1-22=-50/0, 11-12=-4 3-4=-7/0, 4-5=-7/0, 5 7-8=-7/0, 8-9=-7/0, 9	44/0, 1-2=-7/0, 2-3≕ 5-6=-7/0, 6-7=-7/0, 9-10=-7/0, 10-11=-7/	- <i>7/</i> 0, 0									UNITH CA	ROUL	
BOT CHORD	21-22=0/7, 20-21=0/ 17-18=0/7, 16-17=0/ 13-14=0/7, 12-13=0/	/7, 19-20=0/7, 18-19 /7, 15-16=0/7, 14-15 /7	=0/7, =0/7,								A.L.	ORIFESE	2.1.	
WEBS	2-21=-131/0, 3-20=- 5-18=-133/0, 6-17=- 8-15=-132/0, 9-14=-	134/0, 4-19=-133/0, 133/0, 7-16=-134/0, 137/0, 10-13=-120/0								9		SEA	1	1111
NOTES											- 8	0000	20	=
<ol> <li>All plates a</li> <li>Gable required</li> </ol>	are 1.5x3 MT20 unless uires continuous bottor	otherwise indicated m chord bearing.	l.							111		0363	22	1111

- Truss to be fully sheathed from one face or securely 3)

braced against lateral movement (i.e. diagonal web). 4) Gable studs spaced at 1-4-0 oc.

5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Page: 1

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Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:00 ID:XpNTr7qvYYGNCvyhVhWDmtzHz?9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F102	Floor	7	1	Job Reference (optional)	164429507

1-8-0

0-1-8





0-5-8

13-1-8 13-1-8 Scale = 1:29.2 Plate Offsets (X, Y): [4:0-1-8.Edge]. [12:0-1-8.Edge]

1 101		, , , , , , , , , , , , , , , , , , ,	[12.0 1 0,Euge]										
Loa	ading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCL	L	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.08	11-12	>999	360	MT20	244/190
TCI	DL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.12	11-12	>999	240		
BCI		0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.03	10	n/a	n/a		
BCI	DL	5.0	Code	IRC2018/1PI2014	Matrix-MSH				-			Weight: 72 lb	FT = 20%F, 11%E
LU	MBER												
TO	P CHORD	2x4 SP No.2(flat)											
BO	T CHORD	2x4 SP No.2(flat)											
WE	BS	2x4 SP No.3(flat)											
OTI	HERS	2x4 SP No.3(flat)											
BR/	ACING												
TO	P CHORD	Structural wood she	athing directly applie	ed or									
		6-0-0 oc purlins, ex	cept end verticals.										
BO.	T CHORD	Rigid ceiling directly	applied or 10-0-0 o	С									
		bracing.											
RE/	ACTIONS	(SIZE) 10= Mech	anical, 15=0-3-8	<b>`</b>									
		Max Grav 10=708 (L	LC 1), 15=702 (LC 1	)									
FO	RCES	(lb) - Maximum Com	pression/Maximum										
то			2/0 1 2 1/0										
101		2-3-1518/0 3-4-1	2/0, 1-2=-4/0, 518/0 /-51862/0										
		5-6=-1862/0 6-7=-1	522/0 7-8=-1522/0										
		8-9=0/0	022/0, 1 0- 1022/0,										
BO	T CHORD	14-15=0/917, 13-14	=0/1862, 12-13=0/18	862,									
		11-12=0/1835, 10-1	1=0/921										
WE	BS	8-10=-1111/0, 2-15=	-1102/0, 8-11=0/73	3,									
		2-14=0/733, 7-11=-1	158/0, 3-14=-186/0,										Un.
		6-11=-381/0, 4-14=-	492/0, 6-12=-150/23	33,								N' U CA	Dille
		4-13=-53/102, 5-12=	63/19									"aTH UF	10/11
NO	TES										N	OFFE	id. Arts
1)	Unbalance	ed floor live loads have	e been considered fo	or							22	P	N: North
2)		1. aro 2x5 MT20 unloss c	thorwice indicated							1 P			4
2) 3)	Refer to di	irder(e) for trues to true	s connections							-		054	1 1 1
4)	This truss	is designed in accords	ance with the 2018									SEA	L : E
.,	Internation	al Residential Code s	ections R502.11.1 a	ind								0363	22 : 3
	R802.10.2	and referenced stand	ard ANSI/TPI 1.							1			: :
5)	Recomme	nd 2x6 strongbacks, o	n edge, spaced at							-	-		1 2
10-00-00 oc and fastened to each truss with 3-10d											2.	Nº. En.	Rik S

(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.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F103	Floor	12	1	Job Reference (optional)	164429508
Carter Components (Sanford, NC), Sanford, NC - 27332,		Run: 8.63 S Nov 1	2023 Print: 8.0	630 S Nov 1	2023 MiTek Industries, Inc. Fri Mar 22 12:49:00	Page: 1





Plate	Offsets	(X,	Y):	[4:0-1-8,Edge], [12:0-1-8,Edge]
-------	---------	-----	-----	---------------------------------

Loading	(psf)	Spacing	2-0-0	CSI	0.00	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00		0.38	Vert(LL)	-0.10	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.15	11-12	>999	240		
BOLL	0.0	Rep Stress Incr		VVB	0.37	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IRC2018/1PI2014	Matrix-MSH			-				vveight: 74 lb	FT = 20%F, 11%E
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
WEBS	2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)											
BRACING	<b>.</b>											
TOP CHORD	Structural wood she	eathing directly applie	ed or									
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	0									
REACTIONS	(size) 10=0-5-8,	, 15=0-3-8										
	Max Grav 10=733 (I	LC 1), 15=727 (LC 1	)									
FORCES	(lb) - Maximum Com Tension	npression/Maximum										
TOP CHORD	1-15=-71/0, 9-10=-7 2-3=-1587/0, 3-4=-1 5-6=-1990/0, 6-7=-1 8-9=0/0	2/0, 1-2=-4/0, 587/0, 4-5=-1990/0, 596/0, 7-8=-1596/0,										
BOT CHORD	14-15=0/954, 13-14 11-12=0/1944, 10-1	=0/1990, 12-13=0/19 1=0/960	990,									
WEBS	8-10=-1158/0, 2-15= 2-14=0/772, 7-11=-1 6-11=-424/0, 4-14=- 4-13=-40/115, 5-12=		7, 30,								WTH CA	BO
NOTES	, -									1º	R	A lot
1) Unbalance	ed floor live loads have	e been considered fo	r						1	52	C FESS	A. Man
this design									2			NºU/
<ol> <li>All plates a</li> </ol>	are 3x5 M I 20 unless o	otherwise indicated.							-			
3) I NIS TRUSS	is designed in accorda	ance with the 2018	nd							:	SEA	L : =
R802 10 2	and referenced stand	lard ANSI/TPI 1	nu						=		0363	22 =
4) Recomme	nd 2x6 strongbacks, o	on edge, spaced at									0303	44 ÷ ÷
10-00-00 0	oc and fastened to eac	ch truss with 3-10d									N	1 5
(0.131" X 3	3") nails. Strongbacks	s to be attached to w	alls						S	1. 1	N. E.	Ricks
at their out	ter ends or restrained	by other means.								20	GIN	EF. AN
5) CAUTION	, Do not erect truss ba	ackwards.								1	C A	IL BE IN
LOAD CASE(	S) Standard										11, A. G	Lunn
												L.L. Contraction



March 25,2024

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Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F104	Floor Supported Gable	1	1	Job Reference (optional)	164429509
Carter Components (Sanford, NC	c), Sanford, NC - 27332,	Run: 8.63 S Nov 1 2 ID:??xr3TrXIsOEp3X	023 Print: 8.6 t3O1SJ5zHz1	630 S Nov 1 ?8-RfC?PsB7	2023 MiTek Industries, Inc. Fri Mar 22 12:49:0( 70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f	Page: 1
215						0-1-8 
333						
1	2 3	4 5 6	7	8	9 10	11 
3x5	21 20 "	19 18 17	16	1	5 14 13	3x5 =
		<u>13-7-0</u> 13-7-0				_
Scale = 1:26.6						

Plate Offsets (	(X, Y): [22:E	Edge,0-1-8	]											
Loading TCLL TCDL BCLL		(psf) 40.0 10.0 0.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 YES		CSI TC BC WB	0.10 0.02 0.03	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 12	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL		5.0	Code	IRC2018	8/TPI2014	Matrix-MR							Weight: 61 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No 2x4 SP No 2x4 SP No 2x4 SP No Structural 6-0-0 oc p Bigid ceili	5.2(flat) 5.2(flat) 5.3(flat) 5.3(flat) wood she purlins, exi	athing directly applie cept end verticals. applied or 10-0-0 or	4) 5) 6) d or	Gable studs This truss is International R802.10.2 a Recommence 10-00-00 oc (0.131" X 3") at their outer CAUTION, E	spaced at 1-4-0 o designed in accor Residential Code nd referenced star 2x6 strongbacks and fastened to e nails. Strongbac ends or restraine on ot erect truss	oc. rdance w e sections ndard AN , on edge each truss exts to be ed by othe backward	ith the 2018 5 R502.11.1 a ISI/TPI 1. 6, spaced at 5 with 3-10d attached to w er means. ds.	nd alls					
BOT ONORD	bracing.	ing uncoury		Ĺ	DAD CASE(S)	Standard								
REACTIONS	(size) Max Grav	12=13-7-0 15=13-7-0 18=13-7-0 21=13-7-0 12=71 (L0 14=143 (L 16=146 (L 18=147 (L 20=149 (L 22=66 (L0	0, 13=13-7-0, 14=13- 0, 16=13-7-0, 17=13- 0, 19=13-7-0, 20=13- 0, 22=13-7-0 C 1), 13=160 (LC 1), .C 1), 15=148 (LC 1), .C 1), 17=147 (LC 1) .C 1), 19=146 (LC 1) .C 1), 21=138 (LC 1) C 1)	.7-0, .7-0, .7-0, , ,										
FORCES	(lb) - Maxi	mum Com	pression/Maximum											
TOP CHORD	1-22=-58/ 2-3=-12/0 6-7=-12/0 10-11=-12	0, 11-12=- , 3-4=-12/0 , 7-8=-12/0 2/0	65/0, 1-2=-12/0, ), 4-5=-12/0, 5-6=-12 ), 8-9=-12/0, 9-10=-1	2/0, 2/0,								A.	OR FSS	ROUT
BOT CHORD	21-22=0/1 18-19=0/1 15-16=0/1 12-13=0/1	2, 20-21=( 2, 17-18=( 2, 14-15=( 2	0/12, 19-20=0/12, 0/12, 16-17=0/12, 0/12, 13-14=0/12,								6	n and a start of the start of t	SEA	
WEBS	2-21=-128 5-18=-133 8-15=-134	8/0, 3-20=- 8/0, 6-17=- 1/0, 9-14=-	135/0, 4-19=-133/0, 133/0, 7-16=-133/0, 130/0, 10-13=-145/0								1111		0363	22
NOTES											S	1.	N.En	RIAS
<ol> <li>All plates</li> <li>Gable req</li> <li>Truss to b braced ag</li> </ol>	are 1.5x3 M juires continu pe fully sheat jainst lateral	T20 unless Jous bottor hed from c movement	s otherwise indicated m chord bearing. one face or securely t (i.e. diagonal web).										A C	ALBERTIN'

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Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F105	Floor Supported Gable	1	1	Job Reference (optional)	164429510
Carter Components (Sanford, NC	;), Sanford, NC - 27332,	Run: 8.63 S Nov 1 20	023 Print: 8.6	30 S Nov 1	2023 MiTek Industries, Inc. Fri Mar 22 12:49:00	Page: 1

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:00 ID:??xr3TrXIsOEp3Xt3O1SJ5zHz?8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:30.6

Plate Offsets (X, Y): [28:Edge.0-1-8]

Plate Olisets (	A, Y): [28:Edge	e,0-1-8]												
Loading TCLL TCDL BCLL BCDL	(	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES IRC201	8/TPI2014	<b>CSI</b> TC BC WB Matrix-MR	0.09 0.02 0.03	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 15	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 72 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2( 2x4 SP No.2( 2x4 SP No.3( 2x4 SP No.3( 2x4 SP No.3( Structural woo 6-0-0 oc purli Rigid ceiling of bracing. (size) 15: 18: 21: 24: 28: Max Grav 15: 17: 10	flat) flat) flat) flat) od shea ns, exc directly =16-2-8 =16-2-8 =16-2-8 =16-2-8 =16-2-8 =16-2-8 =68 (LC =144 (L	athing directly applie ept end verticals. applied or 10-0-0 oc , 16=16-2-8, 17=16- , 19=16-2-8, 20=16- , 22=16-2-8, 23=16- , 26=16-2-8, 27=16- 1), 16=157 (LC 1), C 1), 18=147 (LC 1) C 1), 20-417 (LC 1)	2) 3) 4) 5) ed or 6) -2-8, 7) -2-8, 7) -2-8, Lo	Gable requirt Truss to be fi braced again Gable studs This truss is International R802.10.2 ar Recommend 10-00-00 oc (0.131" X 3") at their outer CAUTION, D DAD CASE(S)	es continuous bott ully sheathed from st lateral movemen spaced at 1-4-0 oc designed in accorc Residential Code s nd referenced stan 2x6 strongbacks, and fastened to ea nails. Strongback ends or restrained o not erect truss b Standard	om chor one fac nt (i.e. d : lance w sections dard AN on edge ch truss s to be l by othe ackward	d bearing. e or securely iagonal web). ith the 2018 R 502.11.1 an ISI/TPI 1. a, spaced at s with 3-10d attached to wa er means. ds.	nd alls					
	19= 21= 23= 26= 28=	=146 (L) =147 (L) =147 (L) =149 (L) =65 (LC	C 1), 20=147 (LC 1) C 1), 22=147 (LC 1) C 1), 24=146 (LC 1) C 1), 27=139 (LC 1) C 1)	), ), ), ),										10
FORCES	(lb) - Maximu	m Com	pression/Maximum										W''LL CA	Dille
TOP CHORD	1-28=-58/0, 1 2-3=-11/0, 3-4 6-7=-11/0, 7-8 10-12=-11/0,	4-15=-6 4=-11/0 8=-11/0 12-13≕	62/0, 1-2=-11/0, , 4-5=-11/0, 5-6=-11 , 8-9=-11/0, 9-10=-1 -11/0, 13-14=-11/0	1/0, 11/0,							4	in the	ORTHORES	De l'
BOT CHORD	27-28=0/11, 2 23-24=0/11, 2 20-21=0/11, 1 17-18=0/11, 1	26-27=0 22-23=0 19-20=0 16-17=0	/11, 24-26=0/11, /11, 21-22=0/11, /11, 18-19=0/11, /11, 15-16=0/11								111111		SEA 0363	L 22
WEBS	2-27=-129/0, 5-23=-133/0, 8-20=-133/0, 12-17=-131/0	3-26=-1 6-22=-1 9-19=-1 , 13-16:	35/0, 4-24=-133/0, 33/0, 7-21=-133/0, 33/0, 10-18=-134/0 =-142/0	),									S. ENGIN	EERHAU
NOTES													11, A. G	1LP IN
<ol> <li>All plates a</li> </ol>	are 1.5x3 MT20	unless	otherwise indicated	i.									in the second se	IIII.

March 25,2024

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Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F106	Floor	7	1	Job Reference (optional)	164429511

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:00 ID:??xr3TrXIsOEp3Xt3O1SJ5zHz?8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:30.6

# Plate Offsets (X, Y): [14:0-1-8,Edge], [15:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	0.64	DEFL	in -0.20	(loc)	l/defl ⊳973	L/d	PLATES	<b>GRIP</b>
	40.0		1.00		0.04	Vert(LL)	-0.20	15-16	> 725	240	101120	244/190
BCU	10.0	Rep Stress Incr	VES	WB	0.07	Horz(CT)	-0.20	10-10	>135 n/a	240 n/a		
	5.0	Codo		Motrix MSH	0.43	11012(01)	0.05	12	n/a	n/a	Woight: 94 lb	ET - 200/E 110/E
BCDL	5.0	Code	IKC2010/1F12014	IVIAUIX-IVIOI I							Weight. 64 lb	FT = 20 /0F, TT/0E
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
WEBS	2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood shea	athing directly applie	d or									
	6-0-0 oc purlins, exc	cept end verticals.										
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 oc	;									
	bracing.											
REACTIONS	(size) 12=0-3-8,	18= Mechanical										
	Max Grav 12=871 (L	.C 1), 18=878 (LC 1)										
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	1-18=-73/0, 11-12=-7	70/0, 1-2=0/0,										
	2-3=-2015/0, 3-4=-20	015/0, 4-5=-2871/0,										
	5-6=-2871/0, 6-7=-28	871/0, 7-8=-2015/0,										
	8-10=-2015/0, 10-11	=-4/0										
BOT CHORD	16-18=0/1171, 15-16	6=0/2565, 14-15=0/2	.871,									
	13-14=0/2565, 12-13	3=0/1169										
WEBS	10-12=-1406/0, 2-18	=-1412/0, 10-13=0/1	1032,									
	2-16=0/1030, 8-13=-	167/0, 3-16=-165/0,										111.
	7-13=-671/0, 4-16=-6	671/0, 7-14=0/610,									IN CA	DUL
	4-15=0/610, 6-14=-2	58/0, 5-15=-258/0								1	THUA	TO III
NOTES									/	1.	on .:	Nº Nil
<ol> <li>Unbalance</li> </ol>	d floor live loads have	been considered for	r						4	22	1 ALL	Ning
this design	l.								-		in a	2
<ol><li>Refer to gi</li></ol>	rder(s) for truss to trus	s connections.										
3) This truss	is designed in accorda	ince with the 2018							=		SEA	L 1 1
Internation	al Residential Code se	ections R502.11.1 ar	nd						=	:	0202	
R802.10.2	and referenced stands	ard ANSI/TPT1.							1		0363	ZZ : :
4) Recomme	$10 \ge x0$ Strongpacks, 0	h euge, spaced at								0		1 2
(0 131" ¥ 1	and lastened to each	to be attached to w	alle							2	·	all S
at their out	er ends or restrained h	to be allached to wa	2110							20	NGINI	EENAS
5) CALITION	Do not erect truss bar	ckwards								1	7/0	E. E.
	Standard	onnaluo.									AG	ILBUIN
LOAD CASE(											11111	in the second se

March 25,2024

Page: 1

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Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F107	Floor Supported Gable	1	1	Job Reference (optional)	164429512

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:00 ID:??xr3TrXIsOEp3Xt3O1SJ5zHz?8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:19.5

Plate Offsets (X, Y): [16:Edge,0-1-8]

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL		10.0	Lumber DOL	1.00		BC	0.02	Vert(TL)	n/a	-	n/a	999			
BCLL		0.0	Rep Stress Incr	YES		WB	0.03	Horiz(TL)	0.00	9	n/a	n/a			
BCDL		5.0	Code	IRC2018/TPI2	014	Matrix-MR							Weight: 43 lb	FT = 20%F	, 11%E
LUMBER				6) Reco	mmend	2x6 strongbacks,	on edge	, spaced at							
TOP CHORD	2x4 SP N	lo.2(flat)		10-0	0-00 oc	and fastened to ea	ach truss	with 3-10d							
BOT CHORD	2x4 SP N	lo.2(flat)		(0.13	51" X 3")	nails. Strongback	ks to be a	attached to w	alls						
WEBS	2x4 SP N	lo.3(flat)		at the	eir outer	ends or restrained	d by othe	er means.							
OTHERS	2x4 SP N	lo.3(flat)		LOAD C	ASE(S)	Standard									
BRACING															
TOP CHORD	Structura 6-0-0 oc	I wood shea purlins, exa	athing directly applie cept end verticals.	ed or											
BOT CHORD	Rigid ceil bracing.	ling directly	applied or 10-0-0 oc	2											
REACTIONS	(size)	9=8-11-8, 12=8-11-8 15=8-11-8	10=8-11-8, 11=8-11 3, 13=8-11-8, 14=8-1 3, 16=8-11-8	-8, 1-8,											
	Max Grav	9=41 (LC 11=152 (L 13=147 (L 15=146 (L	1), 10=119 (LC 1), LC 1), 12=145 (LC 1), LC 1), 14=147 (LC 1), LC 1), 16=60 (LC 1)	), ),											
FORCES	(lb) - Max Tension	kimum Com	pression/Maximum												
TOP CHORD	1-16=-55, 3-4=-6/0, 7-8=-6/0	/0, 8-9=-35/ 4-5=-6/0, 5	/0, 1-2=-6/0, 2-3=-6/0 5-6=-6/0, 6-7=-6/0,	0,											
BOT CHORD	15-16=0/	6, 14-15=0/	6, 13-14=0/6, 12-13	=0/6,									WH CA	Pall	
WEBS	2-15=-13	2/0, 3-14=-	134/0, 4-13=-134/0,									A	RIFER	in the	14
NOTES	5-12-15	2/0, 0-11=-	130/0, 7-10=112/0									27	inte	12.5	1/1
1) All ploton of	ro 1 Ev2 M		othorwigg indicated	1											
1) All plates a	liroo contin	1120 unless	ounerwise indicated								-				-
<ol> <li>Gable Tequ</li> <li>Truce to be</li> </ol>	ares conun s fully choo	wheed from a	n choru beanng.									:	SEA	L :	=
braced and	ainst lateral	lineu nom u I movement	(i.e. diagonal web)								=	:	0262	22	=
<ol> <li>Gable stud</li> </ol>	ls snaced a	at 1-4-0 oc									1		0303	~~ ;	
5) This truss i	is designed	t in accorda	ance with the 2018												1
Internation	al Residen	tial Code se	ections R502.11.1 ar	nd							5	3	·	air	3
R802.10.2	and refere	nced stand	ard ANSI/TPI 1.									25	A VGINI	EEI	5
												11	710	at	5
													11. A. G	ILD	
													111111	unit.	

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 outlapse 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com) March 25,2024



Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F108	Floor Supported Gable	1	1	Job Reference (optional)	164429513

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:00 ID:??xr3TrXIsOEp3Xt3O1SJ5zHz?8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Scale = 1:24.7

Plate Offsets (	X, Y): [21:I	Edge,0-1-8	]											
Loading TCLL TCDL BCLL BCDL		(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES IRC2018/TPI20	014 N	CSI TC BC WB Matrix-MR	0.09 0.03 0.03	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 12	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 58 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP N 2x4 SP N 2x4 SP N 2x4 SP N Structura 6-0-0 oc   Rigid ceil bracing.	o.2(flat) o.2(flat) o.3(flat) o.3(flat) I wood shea purlins, exi ing directly	athing directly applie cept end verticals. applied or 10-0-0 oc	5) This t Interr R802 6) Reco 10-00 (0.13 at the <b>LOAD C</b> A	russ is de national Re .10.2 and mmend 2: 0-00 oc an 1" X 3") na nir outer er ASE(S)	esigned in accorresidential Code referenced star x6 strongbacks, id fastened to er ails. Strongback nds or restrained Standard	dance wi sections idard AN on edge ach truss is to be d by othe	ith the 2018 R502.11.1 an ISI/TPI 1. spaced at with 3-10d attached to wa or means.	nd alls					
REACTIONS	(size) Max Grav	12=12-4-8 15=12-4-8 18=12-4-8 21=12-4-8 12=90 (LC 14=143 (L 16=146 (L 18=146 (L 20=135 (L)	8, 13=12-4-8, 14=12- 8, 16=12-4-8, 17=12- 8, 19=12-4-8, 20=12- 9, 1), 13=160 (LC 1), 1, C 1), 15=148 (LC 1), 1, C 1), 17=147 (LC 1), 1, C 1), 19=150 (LC 1) C 1), 21=2169 (LC 1)	-4-8, -4-8, -4-8, ), ),										
FORCES	(lb) - Max	timum Com	pression/Maximum											
TOP CHORD	1-21=-60/ 3-4=-14/0 7-8=-14/0	/0, 11-12=0 ), 4-5=-14/0 ), 8-9=-14/0	)/9, 1-2=-14/0, 2-3=- ), 5-6=-14/0, 6-7=-14 ), 9-10=-14/0, 10-11:	14/0, 4/0, =-2/0									WITH CA	Ro
BOT CHORD	20-21=0/ <sup>-</sup> 17-18=0/ <sup>-</sup> 14-15=0/ <sup>-</sup>	14, 19-20=0 14, 16-17=0 14, 13-14=0	0/14, 18-19=0/14, 0/14, 15-16=0/14, 0/14, 12-13=0/14								4	i'''	OR	A A A A A A A A A A A A A A A A A A A
WEBS	2-20=-12 5-17=-13 8-14=-13	7/0, 3-19=- 3/0, 6-16=- 1/0, 9-13=-	135/0, 4-18=-133/0, 133/0, 7-15=-134/0, 142/0, 10-12=-94/0								11111		SEA	L
NOTES 1) All plates a 2) Gable req 3) Truss to b braced ag 4) Gable stud	are 1.5x3 M uires contin e fully shea ainst lateral ds spaced a	IT20 unless uous bottor thed from c movement at 1-4-0 oc.	otherwise indicated in chord bearing, one face or securely t (i.e. diagonal web).	I.							THE PARTY	A A A A A A A A A A A A A A A A A A A		EER.K.

March 25,2024

Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Science Use Component Categories (http://www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F110	Floor	2	1	Job Reference (optional)	164429514

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:01 ID:??xr3TrXIsOEp3Xt3O1SJ5zHz?8-RfC?PsB70Hq3NSgPqnL8w3u1TXbGKWrCDoi7J4zJC?f Page: 1





1-4-0



Scale = 1:33.3

Plate Offsets (X, Y): [2:0-1-8,Edge], [7:0-1-8,Edge]

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	0.15	Vert(LL)	0.00	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(CT)	-0.01	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 27 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)											
BRACING TOP CHORD BOT CHORD	Structural wood she 3-8-0 oc purlins, ex Rigid ceiling directly	eathing directly appli cept end verticals. v applied or 10-0-0 o	ed or c									

	bracing.	
REACTIONS	(size)	6=0-3-8, 9= Mechanical
	Max Grav	6=182 (LC 1), 9=188 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-9=-27/5	6, 5-6=-70/0, 1-2=0/0, 2-3=-103/0,
	3-4=-103/	/0, 4-5=-4/0
BOT CHORD	8-9=0/103	3, 7-8=0/103, 6-7=0/153
WEBS	4-6=-180/	/0, 2-9=-199/0, 4-7=-123/0,
	2-8=-5/32	2. 3-7=0/107

#### NOTES

- Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F201	Floor Supported Gable	1	1	Job Reference (optional)	164429515

Page: 1



#### 29-11-0 29-11-0

Scale = 1:51.9

Scale = 1:51.9															
<b>Loading</b> TCLL TCDL BCLL BCDL		(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES IRC20	18/TPI2014	CSI TC BC WB Matrix-MR	0.08 0.02 0.03	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 27	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 124 lb	<b>GRIP</b> 244/190 FT = 20%F, 11 <sup>c</sup>	%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP N 2x4 SP N 2x4 SP N 2x4 SP N Structura 6-0-0 oc   Rigid ceil bracing. (size)	o.2(flat) o.2(flat) o.3(flat) o.3(flat) l wood shea ourlins, exc ing directly 27=29-7-8 30=29-7-8 33=29-7-8	athing directly applie cept end verticals. applied or 10-0-0 oc 3, 28=29-7-8, 29=29- 3, 31=29-7-8, 35=29- 3, 37=29-7-8, 35=29- 3, 37=29-7-8, 38=29-	d or 7-8, 7-8, 7-8, 7-8,	BOT CHORD	49-50=0/4, 48-49= 45-46=0/4, 44-45= 41-42=0/4, 40-41= 36-37=0/4, 35-36= 32-33=0/4, 31-32= 28-29=0/4, 27-28= 2-49=-134/0, 3-48 5-46=-133/0, 16- 18-33=-133/0, 12- 15-36=-133/0, 16- 18-33=-133/0, 19- 21-30=-134/0, 22- 24-27=-107/0	=0/4, 47-2 =0/4, 43-2 =0/4, 38-2 =0/4, 38-2 =0/4, 30-5 =0/4, 26-2 =-133/0, =-133/0, =-133/0, 38=-133/ 32=-133/ 32=-133/ 29=-132/	48=0/4, 46-47 44=0/4, 42-43 40=0/4, 37-38 35=0/4, 37-38 35=0/4, 33-34 31=0/4, 29-30 27=0/4 4-47=-133/0, 7-44=-133/0, 10-41=-133/0 0, 17-34=-13 0, 20-31=-13 0, 22-32=-13	f=0/4, =0/4, =0/4, =0/4, =0/4, =0/4, =0/4, =0/4, 3/0						
FORCES TOP CHORD	(lb) - Max Tension 1-50=-48, 3-4=-4/0, 7-8=-4/0, 11-12=-4, 15-16=-4, 18-19=-4, 21-22=-4, 24-25=-4,	$\begin{array}{c} \text{Subscript{2}} = 1 \text{Subscript{2}} \\ \text{Subscript{2}} = 1 Sub$	$\begin{array}{l} , 0, -207-60, 00=20^{-2}, 0, 0=20^{-2}, 0, 0=20^{-2}, 0, 0=20^{-2}, 0, 0=20^{-2}, 0, 0=20^{-2}, 0, 0=20^{-2}, 0=20$	7-8, 1 7-8, 1 7-8, 2 , 2 , 2 , 5 , 5 , 5 , 5 , 6 , , 5 , 5 , 6 , , 5 , , 6 , 1 7-8, 1 7-8, 1 7-8, 1 7-8, 1 7-8, 2 , 2 , 2 , 5 , 5 , 5 , 5 , 5 , 5 , 5 , 5 , 5 , 5	NOTES 1) All plates ar 2) Truss to be braced agai 3) Gable studs 4) Non Standa 5) This truss is Internationa R802.10.2 a 5) Recommen 10-00-00 oc (0.131" X 3' at their oute COAD CASE(S)	re 1.5x3 MT20 unle fully sheathed from inst lateral moveme is spaced at 1-4-0 o ard bearing conditions designed in accord and referenced stand d 2x6 strongbacks, c and fastened to e ") nails. Strongbac er ends or restraine ) Standard	ess othern n one fac ent (i.e. d c. n. Revie dance wi sections ndard AN o, on edge ach truss ks to be a d by other	wise indicated e or securely iagonal web). www.required. ith the 2018 R502,11.1 a ISI/TPI 1. s, spaced at with 3-10d attached to w ar means.	I. nd alls		Marinine.		SEA 0363	R 22 22 11.BER 11.BER 11.11 25,2024	· Normania

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A MiTek Affili 818 Soundside Road Edenton, NC 27932

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:01 ID:3dp5enpHnF8WalNVxz?\_DgzHz?A-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F202	Floor	5	1	Job Reference (optional)	164429516

#### Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:01 ID:3dp5enpHnF8WaINVxz?\_DgzHz?A-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





#### Scale = 1:51.9

Plate Offsets (X, Y)	Plate Offsets (X, Y): [6:0-1-8,Edge], [9:0-3-0,Edge], [14:0-1-8,Edge], [22:0-1-8,Edge], [30:0-1-8,Edge]											
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	0.97	Vert(LL)	-0.23	21-22	>857	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.31	21-22	>624	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.05	20	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 150 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD
BOT CHORD

WEBS

OTHERS

#### NOTES

5)

1) Unbalanced floor live loads have been considered for

this design.

- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) This truss is designed in accordance with the 2018
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  Recommend 2x6 strongbacks, on edge, spaced at

10-00-00 oc and fastened to each truss with 3-10d

at their outer ends or restrained by other means.

CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

(0.131" X 3") nails. Strongbacks to be attached to walls

 BRACING

 TOP CHORD
 Structural wood sheathing directly applied, except end verticals.
 4)

 BOT CHORD
 Rigid ceiling directly applied or 2-2-0 oc

2x4 SP No.2(flat) \*Except\* 26-20:2x4 SP

 bracing.

 **REACTIONS** (size)
 20=0-3-8, 27=0-3-8, 32=0-3-8

 Max Grav
 20=794 (LC 4), 27=1922 (LC 1), 32=644 (LC 3)

2x4 SP No.2(flat)

2x4 SP No.3(flat)

2x4 SP No.3(flat)

No.1(flat)

#### FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-32=-70/0, 19-20=-70/0, 1-2=-4/0, 2-3=-1574/0, 3-4=-1574/0, 4-5=-1757/152, 5-6=-1757/152, 6-7=-1087/605, 7-8=-1087/605, 8-9=0/1988, 9-10=-192/534, 10-12=-192/534, 12-13=-2108/0,

13-14=-2108/0, 14-15=-2730/0, 15-16=-2730/0, 16-17=-2077/0, 17-18=-2077/0, 18-19=-4/0 BOT CHORD 31-32=0/967, 30-31=-9/1806 29-30=-152/1757, 28-29=-152/1757, 27-28=-985/258, 25-27=-1988/0, 24-25=-163/1302. 23-24=0/2730. 22-23=0/2730, 21-22=0/2580, 20-21=0/1227 WEBS 9-27=-1119/0, 5-30=-7/318, 6-29=0/186, 14-23=0/185, 15-22=-140/25, 2-32=-1114/0, 2-31=0/708, 3-31=-167/0, 4-31=-271/149, 4-30=-506/0, 6-28=-1090/0, 7-28=-132/91 8-28=0/1099, 8-27=-1597/0, 14-24=-1009/0, 13-24=-170/86, 12-24=0/997, 12-25=-1368/0, 10-25=-183/0, 9-25=0/1927, 18-20=-1414/0, 18-21=0/993, 17-21=-155/0, 16-21=-587/0, 16-22=-180/338

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Page: 1

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F203	Floor	2	1	Job Reference (optional)	164429517
Carter Components (Sanford, NC	), Sanford, NC - 27332,	Run: 8.63 S Nov 1 2	2023 Print: 8.0	630 S Nov 1	2023 MiTek Industries, Inc. Fri Mar 22 12:49:01	Page: 1

1-2-0



5-11-10	6-11-10 7-11-10	13-4-0
5-11-10	1-0-0 1-0-0	5-4-6

Scale = 1:31.6

## Plate Offsets (X, Y): [6:0-1-8,Edge], [13:0-1-8,Edge]

Loading TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 YES	CSI TC BC WB	0.54 0.79 0.40	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.13 -0.18 0.03	(loc) 13-14 13-14 10	l/defl >999 >890 n/a	L/d 360 240 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH		()					Weight: 68 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood shea 6-0-0 oc purlins, exe Rigid ceiling directly	athing directly applie cept end verticals. applied or 10-0-0 oc	ed or									
REACTIONS	(size) 10= Mech	anical, 15=0-3-8										
FORCES	(lb) - Maximum Com Tension	pression/Maximum	)									
TOP CHORD	1-15=-71/0, 9-10=-74 2-3=-1804/0, 3-4=-18 5-6=-2215/0, 6-7=-1 8-9=0/0	4/0, 1-2=-4/0, 804/0, 4-5=-2215/0, 789/0, 7-8=-1789/0,										
BOT CHORD	14-15=0/1083, 13-14 11-12=0/2215, 10-11	4=0/2169, 12-13=0/2 1=0/1085	2215,									
WEBS	5-13=-308/74, 6-12= 2-14=0/841, 3-14=-1 4-13=-147/416, 8-10 7-11=-186/49, 6-11=	39/99, 2-15=-1248/ 72/0, 4-14=-443/0, )=-1255/0, 8-11=0/82 663/0	/0, 22,								WITH CA	RO
NOTES										S	R	
<ol> <li>NOTES</li> <li>Unbalance this design</li> <li>Refer to gi</li> <li>This truss Internation R802.10.2</li> <li>Recommen 10-00-00 c (0.131" X 3 at their out</li> <li>CAUTION, LOAD CASE(5)</li> </ol>	ed floor live loads have rder(s) for truss to trus is designed in accorda al Residential Code se and referenced stand nd 2x6 strongbacks, o be and fastened to eac 3") nails. Strongbacks ter ends or restrained I , Do not erect truss ba <b>S</b> ) Standard	e been considered for ance with the 2018 ections R502.11.1 ar ard ANSI/TPI 1. n edge, spaced at th truss with 3-10d to be attached to we by other means. ckwards.	r nd alls						Contraction of the second seco		SEA 0363	L 22 L BERTIN



Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Science Use Component Categories (http://www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F204	Floor	2	1	Job Reference (optional)	164429518

1-2-0

#### Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries. Inc. Fri Mar 22 12:49:01 ID:3dp5enpHnF8WalNVxz?\_DgzHz?A-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 1-8-0 2-0-0 0-1-8 0-5-10 Η 1-9-14 1.5x3 II 1.5x3 II 1.5x3 = 3x5 = 3x5 = 3x5 = 3x5 = 1.5x3 🛚 1.5x3 🛚 3x5 🛛 3 2 6 7 8 4 5 9 1€ -<del>.</del> 1-2-0 10 15 $\boxtimes$ ĕ 14 13 12 11 3x6 = 3x5 = 3x6 = 1.5x3 🛚 3x6 = 3x6 =

5-11-10	6-11-10 7-11-10	13-7-8
5-11-10	1-0-0 1-0-0	5-7-14

Scale = 1:31.6

# Plate Offsets (X, Y): [6:0-1-8,Edge], [13:0-1-8,Edge]

Loading TCLL TCDL BCU	(psf) 40.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 YES	CSI TC BC WB	0.51 0.79 0.42	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.14 -0.18 0.04	(loc) 13-14 13-14 10	l/defl >999 >890	L/d 360 240 n/a	<b>PLATES</b> MT20	<b>GRIP</b> 244/190
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH	01.12		0.01				Weight: 70 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)											
TOP CHORD	Structural wood she	athing directly applie	ed or									
BOT CHORD	6-0-0 oc purlins, ex Rigid ceiling directly bracing.	cept end verticals. applied or 10-0-0 or										
REACTIONS	(size) 10=0-3-8 Max Grav 10=736 (	, 15=0-3-8 LC 1), 15=729 (LC 1	)									
FORCES	(lb) - Maximum Con Tension	npression/Maximum										
TOP CHORD	1-15=-71/0, 9-10=-7 2-3=-1856/0, 3-4=-1 5-6=-2321/0, 6-7=-1 8-9=0/0	5/0, 1-2=-4/0, 856/0, 4-5=-2321/0, 853/0, 7-8=-1853/0,										
BOT CHORD	14-15=0/1110, 13-1 11-12=0/2321 10-1	4=0/2253, 12-13=0/2 1=0/1111	2321,									
WEBS	5-13=-339/60, 6-12: 2-14=0/872, 3-14=- 4-13=-126/462, 8-10 7-11=-211/30, 6-11:	44/90, 2-15=-1279/ 173/0, 4-14=-476/0, D=-1285/0, 8-11=0/86 =-694/0	/0, 66,								WTH CA	RO
NOTES	,									1	R	- LAN
<ol> <li>Unbalance this design</li> </ol>	ed floor live loads have n.	e been considered fo	r						4	E)	O FESS	The second
2) This truss Internation R802.10.2	is designed in accord nal Residential Code s and referenced stand	ance with the 2018 ections R502.11.1 a lard ANSI/TPI 1.						1111		SEA		
<ol> <li>Recomme 10-00-00 (0.131" X at their ou</li> </ol>	Recommend 2x6 strongbacks, on edge, spaced at       036322         10-00-00 oc and fastened to each truss with 3-10d       100         (0.131" X 3") nails. Strongbacks to be attached to walls       1000-00 oc and fastened to each trust with 3-10d         (0.131" X 3") nails. Strongbacks to be attached to walls       1000-00 oc and fastened to each trust with 3-10d         (0.131" X 3") nails. Strongbacks to be attached to walls       1000-00 oc and fastened to each trust with 3-10d         (0.131" X 3") nails. Strongbacks to be attached to walls       1000-00 oc and fastened to each trust with 3-10d         (0.131" X 3") nails. Strongbacks to be attached to walls       1000-00 oc and fastened to each trust with 3-10d         (0.131" X 3") nails. Strongbacks to be attached to walls       1000-00 oc and fastened to each trust with 3-10d         (0.131" X 3") nails. Strongbacks to be attached to walls       1000-00 oc and fastened to each trust with 3-10d         (0.131" X 3") nails. Strongbacks to be attached to walls       1000-00 oc and fastened to each trust with 3-10d         (0.131" X 3") nails. Strongbacks to be attached to walls       1000-00 oc and fastened to each trust with 3-10d         (0.131" X 3") nails. Strongbacks to be attached to walls       1000-00 oc and fastened to each trust with 3-10d         (0.131" X 3") nails. Strongbacks to be attached to walls       1000-00 oc and fastened to each trust with 3-10d         (0.131" X 3") nails. Strongbacks to be attached to walls       1000-00 oc and fastened to each t						22					
4) CAUTION	N, Do not erect truss backwards.											

LOAD CASE(S) Standard

# A. GILBER March 25,2024

Page: 1

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Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F205	Floor	10	1	Job Reference (optional)	164429519

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:01 ID:XpNTr7qvYYGNCvyhVhWDmtzHz?9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

3x5 II

3x6=





Scale = 1:54.3

Plate Offsets (	(X, Y): [6:0-1-8,Edge]	, [9:0-3-0,Edge], [14:0	0-1-8,Edge	e], [15:0-1-8,	Edge], [27:0-2-12,E	dge], [31	:0-1-8,Edge]							
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES IRC201	8/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.98 0.93 0.60	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.30 -0.41 0.04	(loc) 23-24 23-24 21	l/defl >715 >525 n/a	L/d 360 240 n/a	PLATES MT20 Weight: 159 lb	<b>GRIP</b> 244/190 FT = 20%F, 11 <sup>0</sup>	%Е
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SP No.1(flat) *E No.2(flat) 2x4 SP No.2(flat) *E 2400F 2.0E(flat) 2x4 SP No.3(flat) *E (flat) 2x4 SP No.3(flat) *E (flat) 2x4 SP No.3(flat) Structural wood she except end verticals Rigid ceiling directly bracing. (size) 21= Mect 33=0-3-8 Max Grav 21=881 (I) 33=638 (I (Ib) - Maximum Corr Tension 1-33=-71/0, 20-21=- 2-3=-1554/0, 3-4=-1 5-6=-1717/273, 6-7 7-8=-1032/777, 8-9 10-12=-132/569, 12 13-14=-2330/0, 14- 15-16=-3367/0, 16- 17-18=-2330/0, 14- 15-23=0/957, 31-32 30-31=-273/1717, 2 25-26=0/3210, 24-2 22-23=0/2993, 21-2	Except* 11-20:2x4 SP Except* 27-21:2x4 SP Except* 27-9:2x4 SP I Except* 27-9:2x4 SP I Ex	, W No.2 (d, N(1) 2) 3) 1), 4) 5) 3, 6) 569, 6) L( /0	CTES Unbalance this design All plates a Refer to gi This truss Internation R802.10.2 Recommen 10-00-00 c (0.131" X at their out CAUTION, DAD CASE(S	9-28=-1209/0, 5-3 14-25=0/293, 15-2 2-32=-8/697, 3-32 4-31=-578/0, 6-29 8-29=0/1131, 8-28 13-26=-155/96, 12 12-27=-1534/0, 10 19-21=-1574/0, 15 17-22=-765/0, 17- 15-23=-194/551 d floor live loads ha re 1.5x3 MT20 unle rder(s) for truss to tr s designed in accor al Residential Code and referenced stan d 2x6 strongbacks, c c and fastened to e s') nails. Strongbac er ends or restraine Do not erect truss I <b>5</b> ) Standard	1=0/382 4=-284/ =-167/0, =-1150/0 =-1635/ -22=0/1 -27=-18 -22=0/1 23=0/43 we been ss other uss conr dance w ss other uss conr dance w ss other uss conr dance w ss other uss conr dance w ach truss ks to be d by otho backward	6-30=0/185, 0, 2-33=-110; 4-32=-259/1, 0, 7-29=-121/ 0, 14-26=-121 0, 14-26=-121 0, 14-2(-18-22=- 5, 16-23=-27) considered fit wise indicate nections. ith the 2018 is R502.11.1 a NSI/TPI 1. a, spaced at s with 3-10d attached to w er means. ds.	, 2/0, 85, 107, 62/0, 2113, 166/0, 0/0, or d. and valls				SEA 0363	L L BEERING	Manunity,

March C

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Schut Information, purplication component component durate propagate component for the prevention. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F206	Floor Supported Gable	1	1	Job Reference (optional)	164429520





Scale = 1:54.3

							-							
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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL		10.0	Lumber DOL	1.00		BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL		0.0	Rep Stress Incr	YES		WB	0.03	Horiz(TL)	0.00	27	n/a	n/a		
BCDL		5.0	Code	IRC20	18/TPI2014	Matrix-MR							Weight: 130 lb	FT = 20%F, 11%E
				т	OP CHORD	1-52=-49/0 26-27	7=-24/0 1	-2=-6/0 2-3=	-6/0					
TOP CHORD	2x4 SP N	lo 2(flat)				3-4=-6/0. 4-5=-6/0	). 5-6=-6/	0. 6-7=-6/0.	,					
BOT CHORD	2x4 SP N	lo 2(flat)				7-8=-6/0, 8-9=-6/0	), 9-10=-6	5/0, 10-11=-6	0.					
WEBS	2x4 SP N	lo.3(flat)				11-12=-6/0, 12-14	l=-6/0, 14	-15=-6/0,						
OTHERS	2x4 SP N	lo.3(flat)				15-16=-6/0, 16-17	7=-6/0, 17	′-18=-6/0,						
BRACING		,				18-19=-6/0, 19-20	)=-6/0, 20	)-21=-6/0,						
	Structura		athing directly applie	dor	21-22=-6/0, 22-23=-6/0, 23-24=-6/0,									
	6-0-0 oc	nurlins ex	cent end verticals	u 01		24-25=-6/0, 25-26	6=-6/0							
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc				OT CHORD	51-52=0/6, 50-51	=0/6, 49-	50=0/6, 48-49	)=0/6,					
201 0110112	bracing					47-48=0/6, 46-47	=0/6, 45-	46=0/6, 44-45	5=0/6,					
REACTIONS	(size)	27=31-5-1	2 28=31-5-12			43-44=0/6, 42-43	=0/6, 41-	42=0/6, 39-41	=0/6,					
	(0.20)	29=31-5-1	2, 30=31-5-12.			38-39=0/6, 37-38	=0/6, 36-	37=0/6, 35-36	5=0/6,					
	31=31-5-12, 32=31-5-12, 33=31-5-12, 34=31-5-12, 35=31-5-12, 36=31-5-12, 37=31-5-12, 38=31-5-12,					34-35=0/6, 33-34	=0/6, 32-	33=0/6, 31-32	2=0/6,					
					30-31=0/6, 29-30=0/6, 28-29=0/6, 27-28=0/6									
					VEB5	2-51=-133/0, 3-50	J=-134/0,	4-49=-133/0,						
						5-48=-133/0, 6-47 9 45- 122/0 0 44	'=-133/0, 1_ 122/0	7-40 = -133/0, 10 42 = 122/0						
		39=31-5-1	2, 41=31-5-12,			11_42_133/0, 9-44	-41133/0,	/0 14-3913	, 3/∩					
		42=31-5-1	2, 43=31-5-12,			15-38=-133/0 16	-37=-133	/0 17-36=-13	3/0					
		44=31-5-1	12, 45=31-5-12,			18-35=-133/0 19	-34=-133	0, 20-33=-13	3/0					
		46=31-5-1	2, 47=31-5-12,			21-32=-133/0. 22-	-31=-134	/0. 23-30=-13	2/0.					
		48=31-5-1	12, 49=31-5-12,			24-29=-138/0.25	-28=-107	/0	,					
		50=31-5-1	12, 51=31-5-12,	N	IOTES	,								
	May 0	52=31-5-1		1	) All plates a	are 1.5x3 MT20 unle	ess other	wise indicated	4					
	Max Grav	27=30 (LC	- 1), 28=114 (LC 1), - C 1) - 20 - 145 (LC 1)	2	) Gable regi	ires continuous bot	ttom choi	d bearing					, uninnin	1111, Starten
		29=155 (L	(LC 1), $30=145$ (LC 1)	, – 3	) Truss to be	e fully sheathed from	n one fac	e or securely					WAH CA	Bol'
		31=147 (L 33=147 (L	C(1), 32=147 (LC(1))	, 0	braced ag	ainst lateral movem	ent (i.e. c	liagonal web)				1	R	ALIN'S
		35–147 (L	C(1), 36-147 (LC(1))	, 4	) Gable stud	Is spaced at 1-4-0 c	DC.	- <b>J</b>				1.	U.FESS	and in
		37=147 (L	C(1), $30=147$ (LC(1) C(1), $38=147$ (LC(1)	, 5	) This truss	is designed in acco	rdance w	ith the 2018				<u>U</u> Z		
		39=147 (L	_C 1), 41=147 (LC 1)	,	Internation	al Residential Code	e sections	R502.11.1 a	nd		4		2	- K
		42=147 (L	.C 1), 43=147 (LC 1)		R802.10.2	and referenced sta	ndard AN	ISI/TPI 1.			-		CEA	r 1 E .
		44=147 (L	C 1), 45=147 (LC 1)	, 6	) Recomme	nd 2x6 strongbacks	, on edge	e, spaced at			=	:	SEA	- : :
		46=147 (L	C 1), 47=147 (LC 1)	,	10-00-00 c	oc and fastened to e	each truss	s with 3-10d					0363	22 : =
		48=147 (L	.C 1), 49=147 (LC 1)	,	(0.131" X 3	3") nails. Strongbac	cks to be	attached to w	alls		-			- j z
		50=147 (L	.C 1), 51=148 (LC 1)	,	at their out	er ends or restraine	ed by othe	er means.			-		1. Sec. 1. Sec	1 5
		52=52 (LC	C 1)	7	) CAUTION	Do not erect truss	backwar	ds.				21	N. ENG	-ERIX S
FORCES	(lb) - Max	kimum Com	pression/Maximum	L	OAD CASE(	<ol><li>Standard</li></ol>						2	S, GIN	E. A.N
	Tension											1	CA -	IL BEIN
													11, A. G	IL
													111111	(TIT)

March 25,2024

Page: 1

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Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:02 ID:XpNTr7qvYYGNCvyhVhWDmtzHz?9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F210	Floor Girder	1	1	Job Reference (optional)	164429521

#### Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:02 ID:XpNTr7qvYYGNCvyhVhWDmtzHz?9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







1-2-0

3x6 ш



3x6 II



3x6 u



Scale = 1:20.8

Loading TCLL TCDL BCLL	(psf) 40.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00	CSI TC BC WB	0.20 0.30 0.22	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.03 0.01	(loc) 7 7-8	l/defl >999 >999	L/d 360 240	PLATES MT20	<b>GRIP</b> 244/190	
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP	0.22	11012(01)	0.01	Ū	n/a	n/a	Weight: 49 lb	FT = 20%F, 11%E	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Provide me bearing pla 2) This truss i Internation R802.10.2 3) Recommer 10-00-00 o (0.131" X 3 at their out 4) Use Simps Truss) or e connect tru 5) Fill all nail 6) In the LOA of the truss LOAD CASE(5 1) Dead + F Plate Incr Uniform L Vert: 6-	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) Structural wood shea 6-0-0 oc purlins, exx Rigid ceiling directly bracing. (size) 6=0-1-12, Max Grav 6=472 (LC (lb) - Maximum Com Tension 1-8=-68/0, 5-6=-76/0 3-4=-1038/0, 4-5=0// 7-8=0/782, 6-7=0/64 4-6=-748/0, 4-7=0/49 2-7=0/294, 2-8=-892 echanical connection ( at e at joint(s) 6. is designed in accorda al Residential Code sc and referenced stand d 2x6 strongbacks, o ic and fastened to eac 3") nails. Strongbacks er ends or restrained I son Strong-Tie THA42: son Strong-Tie THA42: bo D CASE(S) section, lc is are noted as front (F) 5) Standard loor Live (balanced): L ease=1.00 .oads (lb/ft) -8=-10, 1-5=-100	athing directly applie cept end verticals. applied or 10-0-0 or 8=0-3-8 C 1), 8=510 (LC 1) pression/Maximum 0, 1-2=0/0, 2-3=-103 0 3 55, 3-7=-328/0, //0 by others) of truss to ance with the 2018 ections R502.11.1 a ard ANSI/TPI 1. n edge, spaced at h truss with 3-10d to be attached to w by other means. 2 (6-16d Girder, 6-1 rom the left end to i top chord. in contact with luml bads applied to the f ) or back (B).	Concentra Vert: 9= ed or c 18/0, o nd alls 0d ber. ace 00,	ted Loads (lb) -224 (B)							SEA 0363	ROUL 22 EER.AL	
											marci	20,2027	

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Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F212	Floor Girder	1	1	Job Reference (optional)	164429522

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries. Inc. Fri Mar 22 12:49:02 ID:XpNTr7qvYYGNCvyhVhWDmtzHz?9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3x6 =



Page: 1



THA422

1-2-0

THA422





Scale = 1:27.4													
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	тс	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.03	4-5	>999	240			
BCLL	0.0	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	4	n/a	n/a			
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 28 lb	FT = 20%F, 11%E	:
LUMBER													
TOP CHORD	2x4 SP No.2(flat)												
	2v4 SP No 2(flat)												

274 01 11	0.2(iiat)
2x4 SP N	o.3(flat)
Structura 3-10-8 oc	I wood sheathing directly applied or purlins, except end verticals.
Rigid ceil bracing.	ing directly applied or 10-0-0 oc
(size) Max Grav	4=0-3-8, 5= Mechanical 4=308 (LC 1), 5=324 (LC 1)
	2x4 SP N Structura 3-10-8 oc Rigid ceil bracing. (size) Max Grav

FORCES	(Ib) - Maximum Compression/Maximum Tension
TOP CHORD	1-5=-130/0, 3-4=-111/0, 1-2=0/0, 2-3=0/0
	1 5 0/000

BOT CHORD 4-5=0/328 WEBS 2-4=-374/0, 2-5=-372/0

NOTES

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

- This truss is designed in accordance with the 2018 2) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d 4) Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-10-4 from the left end to 2-10-4 to connect truss(es) to front face of top chord.
- 5) Fill all nail holes where hanger is in contact with lumber.
- 6) 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

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

Uniform Loads (lb/ft)

Vert: 4-5=-10, 1-3=-100

Concentrated Loads (lb)

Vert: 6=-121 (F), 7=-113 (F)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **PCB Building Component Scitut Information**. Building from the Structure Building Component Advancement description (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F207	Floor	2	1	Job Reference (optional)	164429523

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:02

Page: 1



Scale = 1:30.8

# Plate Offsets (X, Y): [14:0-1-8,Edge], [15:0-1-8,Edge]

Loading         (pst)         Spacing         2-0-0         CSI         DEFL         in         (loc)         Videft         L/d           TCLL         40.0         Plate Grip DOL         1.00         BC         0.71         Vert(L)         -0.24         15-16         >759         960           BCLL         0.0         Rep Stress Incr         YES         WB         0.54         Horz(CT)         0.06         12         n/a         N/a           BCDL         5.0         Code         IRC2018/TPl2014         Matrix-MSH         Weight: 81 lb         FT = 20%F, 11%E           UMBER         TOP CHORD         2x4 SP No.2(flat)         BCLL         Spacing         recept and verticals           BGT CHORD         2x4 SP No.2(flat)         Grient Verticals         Vertical         recept and verticals           BGT CHORD         Structural wood sheathing directly applied or 2x-0 oc bracing.         FT = 20%F, 11%E         FT = 20%F, 11%E           BGT CHORD         Structural wood sheathing directly applied or 2x-0 oc bracing.         FG = 2050, 7, 4 = 23200, 04 = 040 = 23200, 04 = 040 = 23200, 04 = 040 = 2300 = 2300 = 2300 = 2300 = 2300 = 2													
TCDL       10.0       Lumber DOL       1.00       BC 0.98       Ver(iCT)       -0.32       15-16       -591       240         BCDL       5.0       Code       IRC2018/TPI2014       WB       0.954       Horz(CT)       0.06       12       n/a       n/a         LUMBER       TOP CHORD       2x4 SP No.2(flat)       IRC2018/TPI2014       Matrix-MSH       Weight: 81 lb       FT = 20%F, 11%E         BCDC CHORD       2x4 SP No.2(flat)       IRC2018/TPI2014       Matrix-MSH       Ver(iCT)       -0.32       16.76       -591       240         BCD CHORD       2x4 SP No.2(flat)       IRC2018/TPI2014       Matrix-MSH       Ver(iCT)       -0.32       16.76       -591       240         BCD CHORD       Structural wood sheathing directly applied or 2-2-0 oc bracing.       FT       -591       24.97       -591       24.01       -591       24.97       -591       -40.92       -591       -40.92       -591	Loading TCLL	(psf) 40.0	Spacing Plate Grip DOL	2-0-0 1.00	CSI TC	0.71	DEFL Vert(LL)	in -0.24	(loc) 15-16	l/defl >799	L/d 360	PLATES MT20	<b>GRIP</b> 244/190
BCLL         0.0         Rep Stress Incr         YES         WB         0.64         Horz(CT)         0.06         12         n/a         Weight: 81 lb         FT = 20%F, 11%E           BCDL         5.0         Code         IRC2018/TPI2014         Matrix-MSH         Weight: 81 lb         FT = 20%F, 11%E           UMBER         TOP CHORD         2x4 SP No.2(flat)         Weight: 81 lb         FT = 20%F, 11%E           BCDL         2x4 SP No.2(flat)         FT = 20%F, 11%E         FT = 20%F, 11%E           BCDC LORD         2x4 SP No.2(flat)         FT = 20%F, 11%E         FT = 20%F, 11%E           BCDL         500 ChORD         Structural wood sheathing directly applied or 6-0-0 cp purifies, except end verticals.         FT = 20%F, 11%E           BOT CHORD         Structural wood sheathing directly applied or 2-2-0 oc bracing.         FT = 204/1, 118/F,	TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.32	15-16	>591	240		
BCDL         5.0         Code         IRC2018/TPI2014         Matrix-MSH         Weight: 81 lb         FT = 20%F, 11%E           LUMBER TOP CHORD         2x4 SP No.2(flat) <td< td=""><td>BCLL</td><td>0.0</td><td>Rep Stress Incr</td><td>YES</td><td>WB</td><td>0.54</td><td>Horz(CT)</td><td>0.06</td><td>12</td><td>n/a</td><td>n/a</td><td></td><td></td></td<>	BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.06	12	n/a	n/a		
LUMBER         Zv4 SP No.2(flat)           DOP CHORD         2x4 SP No.2(flat)           BOT CHORD         2x4 SP No.2(flat)           WEBS         2x4 SP No.2(flat)           BRACING         Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.           BRACING         Rigid ceiling directly applied or 22-0 oc bracing.           REACTIONS         Size/L 12-01-12, 18-Mechanical Max Grav           12-01-12, 18-Mechanical Max Grav         12-03-740, 11-12-740, 12-200, 2-38-23230, 3-48-2329, 4-58-3295(0, 5-68-3295(0, 0-78-23295(0, 0-78-23295(0, 5-68-3295(0, 0-78-2395(0, 0-78-23295(0, 0-78-2395	BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 81 lb	FT = 20%F, 11%E
TOP CHORD       2x4 SP No.2(flat)         BOT CHORD       2x4 SP No.3(flat)         BRACING       TOP CHORD         Structural wood sheathing directly applied or 6-0-0 oc purins, except end verticals.         BOT CHORD       Rigid ceiling directly applied or 2-2-0 oc bracing.         BRACINS       [Size)         REACTIONS       (size)         12=0-1-12, 18= Mechanical         Max Grav       12=0-1-12, 18=Mr (LC 1), 18=874 (LC 1), 18=874 (LC 1)         FORCES       (Ib) - Maximum Compression/Maximum Tension         TOP CHORD       1-18=-7440, 1-12=-74/0, 1-2=0/0, 2-3=-2323/0, 3-4=-3232/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 1-10=0/0         BOT CHORD       16-18=-0/135, 15-16=-0/2963, 14-15=-0/3295, 13-14=-0/2951, 12-13=-0/1349         WEBS       5-15=-26/10, 6-14=-281/0, 2-18=-1562/0, 2-16=-0/135, 3-16=-160/13, 6-7=-3295/0, 4-15=-20/608, 10-12=-1561/0, 10-13=-0/136, 8-13==-170/0, 7-13==-734/0, 7-14=-0/675         NOTES       1)       Unbalanced floor live loads have been considered for this design.         1)       Unbalanced floor live loads have been considered for this design.       SEAL         2)       Refer to girder(s) for truss to truss connections.       SEAL         3)       Provide mechanical con	LUMBER												
BOT CHORD       2x4 SP No.3(flat)         BRACING       TOP CHORD         Structural wood sheating directly applied or 6-0-0 oc purlins, except end verticals.       6-0-0 oc purlins, except end verticals.         BOT CHORD       Rijd ceiling directly applied or 2-2-0 oc bracing.       7         REACTIONS       (size)       12-0-112, 18= Mechanical Max Grav 12=874 (LC 1), 18=874 (LC 1)         FORCES       (lb) - Maximum Compression/Maximum Tension       7         TOP CHORD       1-18=-744,0, 11-12=-740, 1-2=0/0, 2-3=-2323/0, 3-4=-3232/0, 6-3=-3295/0, 6-5=-32925/0, 6-5=-32925/0, 6-7=-32925/0, 7-8=-3222/0, 6-7=-32925/0, 7-8=-3222/0, 6-7=-32925/0, 7-8=-3222/0, 6-7=-32925/0, 7-8=-3222/0, 6-7=-32925/0, 6-7=-32925/0, 1-18=-0/131, 18-16=-0/2933, 14-15=-0/3295, 1-13=-0/134, 18-15=0/2935, 1-13=-0/134, 18-15=0/2935, 1-13=-0/134, 18-15=0/2935, 1-13=-0/134, 18-15=0/2935, 1-13=-0/134, 18-15=0/2935, 1-13=-0/134, 18-15=0/2936, 1-13=-0/134, 18-15=0/2936, 1-13=-0/134, 18-15=0/2936, 1-13=-0/134, 18-15=0/2936, 1-13=-0/134, 18-15=0/2936, 1-13=-0/134, 18-15=0/2936, 1-13=-0/134, 18-15=0/2936, 1-13=-0/134, 18-15=0/2936, 1-13=-0/136, 8-13=-170/0, 7-13=-734/0, 7-14=0/675         NOTES       1) Unbalanced floor live loads have been considered for this design.       Intermational Residential Code sections R502.11, 1 and       Image: Second sec	TOP CHORD	2x4 SP No.2(flat)											
WEBS       2x4 SP No.3((lat))         BRACING       Structural wood sheathing directly applied or 6-0 oc purlins, except end verticals.         BOT CHORD       Structural wood sheathing directly applied or 2-2-0 oc bracing.         REACTIONS       (size)       12-0-1-12, 18- Mechanical Max Grav         Max Grav       12-874 (LC 1), 18=874 (LC 1)         FORCES       (b) - Maximum Compression/Maximum Tension         TOP CHORD       1-18=-74/0, 11-12=-74/0, 1-2=-0/0, 2-3=-2323/0, 3-45=-3295/0, 5-6=-3395/0, 7-8=-2322/0, 8-6=-3323/0, 3-45=-33295/0, 7-8=-2322/0, 8-6=-3323/0, 3-45=-33295/0, 7-8=-2322/0, 8-6=-3323/0, 3-45=-33295/0, 5-6=-33295/0, 7-8=-2322/0, 8-10=-2322/0, 8-10=-2322/0, 10-11=-0/0         BOT CHORD       16-18=-0/135, 15-16=-0/2953, 14-15=-0/3295, 13-14=-0/2951, 12-13=-0/1349         WEBS       5-15=-261/0, 0-218=-1652/0, 2-216=-01/135, 3-16=-1652/0, 2-216=-01/135, 3-16=-1652/0, 2-216=-01/135, 3-16=-1652/0, 2-216=-01/135, 3-16=-1652/0, 2-216=-01/135, 3-16=-165/0, 4-16=-736/0, 4-15=-0/2953, 14-15=-0/2953	BOT CHORD	2x4 SP No.2(flat)											
BRACING         TOP CHORD       Structural wood sheathing directly applied or 6-0-0 cc purlins, except end verticals.         BOT CHORD       Rigid celling directly applied or 2-2-0 cc bracing.         REACTIONS       (size)       12=0-112, 18=Mechanical Max Grav         Max Grav       12=874 (LC 1), 18=874 (LC 1)         FORCES       (b). Maximum Compression/Maximum Tension         TOP CHORD       1-18=-74/0, 11-12=-74/0, 1-2=0/0, 2-3=-2323/0, 3-4=-2323/0, 4-5=-3295/0, 5-6=-3295/0, 6-7=-3295/0, 7-8=-2322/0, 8-10=-3222/0, 10-11=0/0         BOT CHORD       18-18=0/1351, 15-16=0/2953, 14-15=0/3295, 13-14=0/2951, 12-13=0/1349         WEBS       5-15=-261/0, 6-14=-281/0, 2-18=-1562/0, 2-15=0/1135, 3-16=-1562/0, 4-15=0/(605), 10-12=-1562/0, 4-15=0/(605), 10-10=-1562/0, 4-15=-736/0, 8-13=-170/0, 7-13=-734/0, 7-14=0/675         NOTES       1       Unbalanced floor live loads have been considered for this design.         2) Refer to girder(s) for truss to truss connections.       SEAL         3) Provide mechanical connection (by others) of truss to bearing pla	WEBS	2x4 SP No.3(flat)											
IOP CHORD       Structural wood sheating directly applied of 6-00 oc purifies, except and verticals.         BOT CHORD       Rigid celling directly applied or 2-2-0 oc bracing. <b>REACTIONS</b> (size)       12=0-1-12, 18= Mechanical Max Grav         Max Grav       12=874 (LC 1), 18=874 (LC 1) <b>FORCES</b> (b) - Maximum Compression/Maximum Tension         TOP CHORD       1-18=-74/0, 11-12=-74/0, 12=0/0,         -23=-23230, 3-45=-3295/0, 7-8=-3295/0, 5-6=-3295/0, 5-6=-3295/0, 6-78=2392/0, 8-10=-2322/0, 10-11=0/0         BOT CHORD       16-18=-01/351, 15-16=0/2953, 14-15=0/3295, 13-14=0/2951, 12-13=0/136, 13=-165/0, 4-15=-736/0, 4-15=0/300, 4-15=0/135, 3-16=-165/0, 4-15=-736/0, 4-15=0/69, 10-12=-1561/0, 10-13=0/1136, 8-13=-170/0, 7-14=-734/0, 7-14=-0/675 <b>NOTES</b> 1) Unbalanced floor live loads have been considered for this design.         2) Refer to girder(6) for truss to truss connections.       3) Provide mechanical connection (by others) of truss to bearing plate at joint(5) 12.         4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and       SEAL	BRACING	Other strengthere and all all a	- 46										
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. REACTIONS (size) 12=0-1-12, 18= Mechanical Max Grav 12=874 (LC 1), 18=874 (LC 1) FORCES (b) - Maximum Compression/Maximum Tension TOP CHORD 1-18=-74/0, 11-12=-74/0, 1-2=0/0, 2-3=-2323/0, 3-4=-2323/0, 4-5=-3295/0, 5-6=-3295/0, 6-7=-3295/0, 7-8=-2322/0, 8-10=-2322/0, 10-11=0/0 BOT CHORD 16-18=0/1351, 15-16=0/2953, 14-15=0/3295, 13-14=0/2951, 12-13=-0/1349 WEBS 5-15=-261/0, 6-14=-281/0, 2-18=-1562/0, 2-16=0/1135, 3-16=-165/0, 4-16=-736/0, 4-15=-0/669, 10-12=-1561/0, 10-13=-0/1136, 8-13=-170/0, 7-13=-734/0, 7-14=0/675 NOTES 1) Unbalanced floor live loads have been considered for this design. 2) Refer to girder(s) for truss to truss connection. 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12. 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.												
REACTIONS       (size)       12=0-1-12, 18= Mechanical Max Grav       12=874 (LC 1), 18=874 (LC 1)         FORCES       (lb) - Maximum Compression/Maximum Tension       1         TOP CHORD       1-18=-74/0, 11-12=-74/0, 1-2=0/0, 2-3=-2323/0, 3-4=-2323/0, 4-5=-3295/0, 5-6=-3295/0, 6-7=-3295/0, 6-7=-3295/0, 8-10=-2322/0, 10-11=0/0       1         BOT CHORD       16-18=0/1351, 15-16=0/2953, 14-15=0/3295, 13-14=0/2951, 12-13=0/136, 8-10=-2322/0, 10-11=0/0       1         BOT CHORD       16-18=0/1351, 15-16=0/2953, 14-15=0/3295, 13-14=0/2951, 12-13=0/136, 8-13=-170/0, 7-13=-734/0, 7-14=0/675       1         NOTES       1       1       Ulabalanced floor live loads have been considered for this design.       1         1       Ulabalanced floor live loads have been considered for this design.       1       1         2)       Refer to girder(s) for truss to truss connections.       5         3)       Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.       SEAL         4)       This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and       SEAL	BOT CHORD	Rigid ceiling directly	applied or 2-2-0 oc										
FORCES         (lb) - Maximum Compression/Maximum Tension           ToP CHORD         1-18=-74/0, 11-12=-74/0, 1-2=0/0, 2-3=-2323/0, 3-4=-2329/0, 7-8=-3295/0, 5-6=-3295/0, 6-7=-3295/0, 7-8=-2322/0, 8-10=-2322/0, 8-10=-2322/0, 0-11=-0/0           BOT CHORD         16-18=0/1351, 15-16=0/2953, 14-15=0/3295, 13-14=0/2951, 12-13=0/1349           WEBS         5-15=-261/0, 6-14=-281/0, 2-18=-165/0, 4-15=0/668, 10-12=-1561/0, 10-13=0/1136, 8-13=-170/0, 7-13=-734/0, 7-14=0/675           NOTES         -           1)         Unbalanced floor live loads have been considered for this design.           2)         Refer to girder(s) for truss to truss connections.           3)         Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.           4)         This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and	REACTIONS	(size) 12=0-1-12 Max Grav 12=874 (L	2, 18= Mechanical .C 1), 18=874 (LC 1)	)									
TOP CHORD       1-18=-74/0, 11-12=-74/0, 1-2=0/0,         2-3=-2323/0, 3-4=-2323/0, 4-5=-3295/0,         5-6=-3295/0, 6-7=-3295/0, 7-8=-2322/0,         8-10=-2322/0, 10-11=0/0         BOT CHORD       16-18=0/1351, 15-16=0/2953, 14-15=0/3295,         13:14=0/2951, 12-13=0/1349         WEBS       5-15=-261/0, 6-14=-281/0, 2-18=-1562/0,         2-16=0/1135, 3-16=-165/0, 4-16=-736/0,         4-15=0/669, 10-12=-1561/0, 10-13=0/1136,         8-13=-170/0, 7-13=-734/0, 7-14=0/675         NOTES         1)       Unbalanced floor live loads have been considered for         this design.         2)       Refer to girder(s) for truss to truss connections.         3)       Provide mechanical connection (by others) of truss to         bearing plate at joint(s) 12.         4)       This truss is designed in accordance with the 2018         International Residential Code sections R502.11.1 and	FORCES (Ib) - Maximum Compression/Maximum Tension												
<ul> <li>BOT CHORD 16-18=0/1351, 15-16=0/2953, 14-15=0/3295, 13-14=0/2951, 12-13=0/1349</li> <li>WEBS 5-15=-261/0, 6-14=-281/0, 2-18=-1562/0, 2-16=0/1135, 3-16=-165/0, 4-16=-736/0, 4-15=0/669, 10-12=-1561/0, 10-13=0/1136, 8-13=-170/0, 7-13=-734/0, 7-14=0/675</li> <li>NOTES</li> <li>1) Unbalanced floor live loads have been considered for this design.</li> <li>2) Refer to girder(s) for truss to truss connections.</li> <li>3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.</li> <li>4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and</li> <li>5) SEAL</li> <li>1) 000000000000000000000000000000000000</li></ul>	Tension TOP CHORD 1-18=-74/0, 11-12=-/0, 2-3=-2323/0, 3-4=-2323/0, 4-5=-3295/0, 5-6=-3295/0, 6-7=-3295/0, 7-8=-2322/0, 8-10=-2322/0, 10-11=0/0												
<ul> <li>WEBS 5-15=-261/0, 6-14=-281/0, 2-18=-1562/0, 2-16=0/1135, 3-16=-165/0, 4-16=-736/0, 4-15=0/609, 10-12=-1561/0, 10-13=0/1136, 8-13=-170/0, 7-13=-734/0, 7-14=0/675</li> <li>NOTES</li> <li>1) Unbalanced floor live loads have been considered for this design.</li> <li>2) Refer to girder(s) for truss to truss connections.</li> <li>3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.</li> <li>4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and</li> <li>5) SEAL 036322</li> </ul>	BOT CHORD	16-18=0/1351, 15-16 13-14=0/2951, 12-13	6=0/2953, 14-15=0/3 3=0/1349	3295,									
<ul> <li>2-16=0/1135, 3-16=-165/0, 4-16=-736/0, 4-15=0/669, 10-12=-1561/0, 10-13=0/1136, 8-13=-170/0, 7-13=-734/0, 7-14=0/675</li> <li>NOTES</li> <li>1) Unbalanced floor live loads have been considered for this design.</li> <li>2) Refer to girder(s) for truss to truss connections.</li> <li>3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.</li> <li>4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and</li> <li>5) SEAL</li> <li>6) O36322</li> </ul>	WEBS	5-15=-261/0, 6-14=-2	281/0, 2-18=-1562/0	),									
<ul> <li>4-15=0/669, 10-12=-1561/0, 10-13=0/1136, 8-13=-170/0, 7-13=-734/0, 7-14=0/675</li> <li>NOTES</li> <li>1) Unbalanced floor live loads have been considered for this design.</li> <li>2) Refer to girder(s) for truss to truss connections.</li> <li>3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.</li> <li>4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and</li> <li>5) SEAL</li> <li>1) Unbalanced floor live loads have been considered for this design.</li> <li>2) Refer to girder(s) for truss to truss connections.</li> <li>3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.</li> <li>4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and</li> <li>2) SEAL</li> <li>3) Second Second</li></ul>		2-16=0/1135, 3-16=-	165/0, 4-16=-736/0,										
<ul> <li>8-13=-170/0, 7-13=-734/0, 7-14=0/675</li> <li>NOTES</li> <li>1) Unbalanced floor live loads have been considered for this design.</li> <li>2) Refer to girder(s) for truss to truss connections.</li> <li>3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.</li> <li>4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and</li> <li>5) SEAL</li> <li>1) Unbalanced floor live loads have been considered for this design.</li> <li>1) Unbalanced floor live loads have been considered for this design.</li> <li>2) Refer to girder(s) for truss to truss connections.</li> <li>3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.</li> <li>4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and</li> <li>1) O36322</li> </ul>		4-15=0/669, 10-12=-	1561/0, 10-13=0/11	36,									111.
NOTES         1) Unbalanced floor live loads have been considered for this design.         2) Refer to girder(s) for truss to truss connections.         3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.         4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and         5		8-13=-170/0, 7-13=-	734/0, 7-14=0/675									W'LL CA	Pall
<ul> <li>a) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.</li> <li>b) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and</li> </ul>	NOIES	d fleer live leeds heve	heen considered fo	_							1	all	91 March
<ul> <li>2) Refer to girder(s) for truss to truss connections.</li> <li>3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.</li> <li>4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and</li> <li>5) SEAL</li> <li>6) O36322</li> </ul>	this design	a noor live loads have	been considered to	ſ							1	O'.FESO	idin A
<ul> <li>a) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.</li> <li>b) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and</li> <li>c) SEAL</li> <li>c) O36322</li> </ul>	<ol> <li>Refer to gi</li> </ol>	rder(s) for truss to trus	s connections							6	25	in 1	- Sing
bearing plate at joint(s) 12. 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and 036322	<ol> <li>Provide me</li> </ol>	echanical connection (	by others) of truss to	C									
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and 036322	bearing pla	ate at joint(s) 12.	,							-		SEA	1 1 1
International Residential Code sections R502.11.1 and 5 036322 5	<ol><li>This truss i</li></ol>	is designed in accorda	ance with the 2018							=	. :	JLA	
	Internation	al Residential Code se	ections R502.11.1 ar	nd						Ξ		0363	22 <u>:</u> E
R802.10.2 and referenced standard ANS//TP1.	R802.10.2	and referenced stand	ard ANSI/TPL1.							-			1 2
10.00.0 oc and fastaned to each trues with 3.10d	10-00-00 o	nu 2xo sironybacks, or	h truss with 3-10d								2	1. A.	all S
(0.13)" X 3") nails. Strongbacks to be attached to walls	(0.131" X 3	3") nails. Strongbacks	to be attached to wa	alls							24	NGINI	EFRAN
at their outer ends or restrained by other means.	at their out	ter ends or restrained b	by other means.								11	710	BEIN
LOAD CASE(S) Standard	LOAD CASE(S	S) Standard										A. G	ILLUNIN



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Job	Truss	Truss Type	Qty Ply Forsyth 1 GRI		Forsyth 1 GRH	
25010103	F211	Floor	2	1	Job Reference (optional)	164429524

#### Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:02 ID:XpNTr7qvYYGNCvyhVhWDmtzHz?9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





3x6 =

1-2-0



3x6 =



Scale = 1:23.8

00010 - 112010													
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)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.03	4-5	>999	240			
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a			
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%F, 11%E	:
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat)												
TOP CHORD	Structural wood she 4-0-4 oc purlins, ex Bigid agiling directly	athing directly appli- cept end verticals.	ed or										

BOT CHORD	bracing.	
REACTIONS	(size)	4=0-1-12, 5= Mechanical
	Max Grav	4=207 (LC 1), 5=207 (LC 1)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-5=-77/0	, 3-4=-66/0, 1-2=0/0, 2-3=0/0
BOT CHORD	4-5=0/21	1

WEBS 2-4=-244/0, 2-5=-239/0

NOTES

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

2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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



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A MiTek Affili 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F214	Floor Supported Gable	1	1	Job Reference (optional)	164429525

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:02 ID:XpNTr7qvYYGNCvyhVhWDmtzHz?9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1







Scale = 1:21

Plate Offsets	(X,	Y):	[4:Edge,0-1-	8]
---------------	-----	-----	--------------	----

Loading TCLL TCDL	(psf) 40.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL	2-0-0 1.00 1.00	CSI TC BC	0.09 0.01	DEFL Vert(LL) Vert(TL)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	<b>GRIP</b> 244/190
BCLL BCDI	0.0 5.0	Rep Stress Incr	YES IRC2018/TPI2014	WB Matrix-MP	0.00	Horiz(TL)	0.00	3	n/a	n/a	Weight <sup>,</sup> 12 lb	FT = 20%F 11%F
DODL	5.0	Code	11(02010/11/2014	Matrix-IVII							Weight. 12 lb	11 = 20701, 1170L
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat)											
TOP CHORD BOT CHORD	Structural wood she 1-4-12 oc purlins, e Rigid ceiling directly bracing	athing directly applie xcept end verticals. applied or 10-0-0 oc	ed or									
REACTIONS	(size) 3=1-4-12, Max Grav 3=63 (LC	4=1-4-12 1), 4=63 (LC 1)										
FORCES	(lb) - Maximum Com Tension	pression/Maximum										
TOP CHORD BOT CHORD WEBS	1-4=-57/0, 2-3=-57/0 3-4=0/0 1-3=0/0	0, 1-2=0/0										
NOTES												
<ol> <li>Gable req</li> <li>Truss to b braced ag</li> <li>Gable stu</li> </ol>	uires continuous botton be fully sheathed from o painst lateral movement ds spaced at 1-4-0 oc.	m chord bearing. one face or securely t (i.e. diagonal web).										
<ol> <li>This truss Internation R802.10.2</li> </ol>	Is designed in accordanal Residential Code set and referenced stand	ance with the 2018 ections R502.11.1 a ard ANSI/TPI 1.	nd								TH CA	ROY
5) Recomme 10-00-00 (0.131" X at their ou	end 2x6 strongbacks, o oc and fastened to eac 3") nails. Strongbacks iter ends or restrained	n edge, spaced at th truss with 3-10d to be attached to wa by other means.	alls						4	AN AN	OFESS	
	(S) Standard										CEA	1 : -

LOAD CASE(S) Standard



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Job	Truss	Truss Type		Ply	Forsyth 1 GRH	
25010103	F209	Floor Supported Gable	1	1	Job Reference (optional)	164429526

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Mar 22 12:49:02 ID:XpNTr7qvYYGNCvyhVhWDmtzHz?9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



#### Scale = 1:24.2

Plate Offsets (	(X, Y): [20:E	Edge,0-1-8]												
Loading TCLL TCDL BCLL		(psf) 40.0 10.0 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 YES		CSI TC BC WB Matrix MB	0.08 0.01 0.03	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 11	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL		5.0	Code	IRC2018	8/TPI2014	Matrix-WR							weight: 52 lb	FI = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No 2x4 SP No 2x4 SP No 2x4 SP No Structural 6-0-0 oc p Rigid ceili bracing.	5.2(flat) 5.2(flat) 5.3(flat) 5.3(flat) wood shea purlins, exc ng directly	athing directly applie cept end verticals. applied or 10-0-0 oc	5) 6) d or <b>LC</b>	This truss is International R802.10.2 ar Recommend 10-00-00 oc (0.131" X 3") at their outer DAD CASE(S)	designed in accor Residential Code nd referenced sta 2x6 strongbacks and fastened to e nails. Strongbac ends or restraine Standard	rdance w sections ndard AN , on edge ach truss ks to be d by othe	ith the 2018 5 R502.11.1 a ISI/TPI 1. 5, spaced at 5 with 3-10d attached to w per means.	nd alls					
REACTIONS	(size) Max Grav	11=11-10- 13=11-10- 15=11-10- 17=11-10- 19=11-10- 11=53 (LC 13=150 (L 15=147 (L 17=147 (L 19=145 (L	-0, 12=11-10-0, -0, 14=11-10-0, -0, 16=11-10-0, -0, 20=11-10-0, -0, 20=11-10-0 C 1), 12=132 (LC 1), .C 1), 14=146 (LC 1) .C 1), 16=147 (LC 1) .C 1), 20=61 (LC 1) C 1), 20=61 (LC 1)	l, l,										
FORCES	(lb) - Maxi	mum Com	pression/Maximum											
TOP CHORD	Tension 1-20=-56/ 3-4=-9/0, 7-8=-9/0,	0, 10-11=-4 4-5=-9/0, 5 8-9=-9/0, 9	47/0, 1-2=-9/0, 2-3=- i-6=-9/0, 6-7=-9/0, i-10=-9/0	-9/0,									TH CA	ROUT
BOT CHORD	19-20=0/9 15-16=0/9 11-12=0/9	), 18-19=0/ ), 14-15=0/	9, 17-18=0/9, 16-17 9, 13-14=0/9, 12-13	=0/9, =0/9,							4	in	O SEESS	The second
WEBS	2-19=-131 5-16=-133 8-13=-136	/0, 3-18=-^ 8/0, 6-15=-^ 8/0, 9-12=-^	134/0, 4-17=-133/0, 134/0, 7-14=-133/0, 121/0								THIN .		SEA 0363	L
NOTES											Ξ		. 0505	: E
<ol> <li>All plates</li> <li>Gable req</li> <li>Truss to b braced ag</li> <li>Gable study</li> </ol>	are 1.5x3 M uires continu e fully sheat ainst lateral ds spaced at	T20 unless Jous bottor hed from o movement t 1-4-0 oc.	otherwise indicated n chord bearing. one face or securely (i.e. diagonal web).										NGIN	EER. K.
													March	ו 25.2024

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Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH	
25010103	F208	Floor Supported Gable	1	1	Job Reference (optional)	164429527

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4010g. 41.2010a / 20010 20010 200





Scale = 1:19.8

Plate Offsets (X, Y): [16:Edge,0-1-8]

		-											_
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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999			
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	9	n/a	n/a			
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 40 lb	FT = 20%F, 11%E	
LUMBER			6) Recomme	nd 2x6 strongback	s, on edge	, spaced at							
TOP CHORD	2x4 SP No.2(flat)		10-00-00	bc and fastened to	each truss	s with 3-10d							
BOT CHORD	2x4 SP No.2(flat)		(0.131" X	3") nails. Strongba	cks to be	attached to w	alls						
WEBS	2x4 SP No.3(flat)		at their ou	ter ends or restrain	ed by othe	er means.							
OTHERS	2x4 SP No.3(flat)		LOAD CASE(	<ol> <li>Standard</li> </ol>									
BRACING													
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex	eathing directly applie cept end verticals.	ed or										
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 or	с										
REACTIONS	(size) 9=8-11-8	, 10=8-11-8, 11=8-1 <sup>-</sup>	1-8,										
	12=8-11-	8, 13=8-11-8, 14=8-1	11-8,										
	15=8-11-6	8, 16=8-11-8											
	Max Grav 9=41 (LC	1), 10=120 (LC 1),	<b>\</b>										
	11=152 (1	LC 1), 12=145 (LC 1	),										
	15=147 (1	LC 1, 14=147 (LC 1)	),										
FORCES													
FORGES	Tension	pression/maximum											
TOP CHORD	1-16=-55/0, 8-9=-34	/0, 1-2=-7/0, 2-3=-7/	/0,										
	3-4=-7/0, 4-5=-7/0, 3 7-8=-7/0	5-6=-7/0, 6-7=-7/0,											
BOT CHORD	15-16=0/7. 14-15=0	/7. 13-14=0/7. 12-13	3=0/7.								munn	11111	
	11-12=0/7. 10-11=0	/7. 9-10=0/7	,								IN'TH CA	ROUL	
WEBS	2-15=-132/0, 3-14=-	134/0, 4-13=-134/0,								1	A	. Ultra	
	5-12=-132/0, 6-11=-	138/0, 7-10=-112/0								X.	O`.EESS	100 Vin	
NOTES									/	55	in	MAN	
<ol> <li>All plates ;</li> </ol>	are 1.5x3 MT20 unless	s otherwise indicated	4						-	V		1	
<ol> <li>Gable reg</li> </ol>	uires continuous botto	m chord bearing							-		054	· · · ·	
<ol> <li>Truss to b</li> </ol>	e fully sheathed from (	one face or securely									SEA	L : I	
braced ad	ainst lateral movemen	t (i.e. diagonal web).									0363	22 E	
4) Gable stud	ds spaced at 1-4-0 oc.								-		. 0000	44 ÷ E	
5) This truss	is designed in accorda	ance with the 2018								-	N	1 2	
Internation	nal Residential Code s	ections R502.11.1 a	nd							- 1	N. E.	Rich	
R802.10.2	and referenced stand	lard ANSI/TPI 1.								25	GIN	EFRAN	
										11	10	BEN	
											11, A. G	ILLIN	
											in min	unit.	

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March 25,2024

Job	Truss	Truss Type	Qty	Ply	Forsyth 1 GRH			
25010103	F21	Floor Girder	1	1	Job Reference (optional)	164429528		

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THA422



THA422

Scale = 1:30

## Plate Offsets (X, Y): [1:Edge,0-3-0], [6:0-4-8,Edge], [7:Edge,0-1-8]

<b>Loading</b> TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 NO IRC2018/TPI2014	<b>CSI</b> TC BC WB Matrix-MP	0.47 0.86 0.81	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.05 0.01	(loc) 5-6 5-6 5	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20 Weight: 37 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) *E (flat) Structural wood she 5-3-0 oc purlins, ex Bioid ceiling directly	xcept* 6-1:2x4 SP N athing directly applie cept end verticals. applied or 10-0-0 or	LOAD CASE 1) Dead + Plate Ir Vert: Concer ed or Vert: (B)	(5) Standard Floor Live (balanced crease=1.00 Loads (lb/ft) 5-7=-10, 1-4=-100 trated Loads (lb) 3=-774 (F), 2=-1394	): Lumber (F=-774,	r Increase=1. B=-620), 8=-	.00, -620					
REACTIONS	bracing. (size) 5=0-4-6, 7 Max Grav 5=1644 (L	7=0-3-8 _C 1), 7=1694 (LC 1	)									
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Maximum Com Tension 1-7=-1685/0, 4-5=-2 2-3=-2380/0, 3-4=0/ 6-7=0/0, 5-6=0/2558 3-5=-2915/0, 3-6=-2 1-6=0/2855	pression/Maximum 27/0, 1-2=-2380/0, 0 3 04/0, 2-6=-1453/0,										
NOTES	1 0=0/2000											
<ol> <li>NOTES</li> <li>This truss i Internation R802.10.2</li> <li>Recomment 10-00-00 cc (0.131" X 3 at their out</li> <li>Use Simps Truss) or et 1-6-8 from front face of 1-10-0 from back face of 5) Fill all nail</li> <li>In the LOA of the truss</li> </ol>	is designed in accorda al Residential Code si and referenced stand nd 2x6 strongbacks, o ic and fastened to eac 3") nails. Strongbacks er ends or restrained ion Strong-Tie THA42 equivalent spaced at 2 the left end to 3-6-8 to of top chord. won Strong-Tie THA42 equivalent spaced at 2 n the left end to 3-10-10 of top chord. holes where hanger is D CASE(S) section, Ik	ance with the 2018 ections R502.11.1 a ard ANSI/TPI 1. n edge, spaced at th truss with 3-10d to be attached to w by other means. 2 (6-16d Girder, 6-1 -0-0 oc max. starting o connect truss(es) t 2 (6-16d Girder, 6-1 -0-0 oc max. starting 0 to connect truss(es) in contact with luml bads applied to the f b or back (B)	nd alls Od g at o 0d g at s) to oer. ace						A summer	2 Martin Charles	SEA 0363	ROUTE L

March 25,2024

TRENGINEERING BY A MITEK Affiliate

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