

Trenco 818 Soundside Rd Edenton, NC 27932

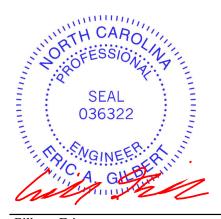
Re: 24010083 BCTH-51

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center.

Pages or sheets covered by this seal: I62945078 thru I62945092

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



January 10,2024

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the design for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

		_									
Job	Truss	Truss Type			Qty	Ply	BCTH-51				
										1629450	78
24010083	F3	Floor Girder			1	1					
							Job Reference (op				
The Building Center,	Gastonia, NC - 28052,							dustries, Inc. Tue Ja			
				ID:sW	UVkoBcB	7eFy0Gbrl	E06iy7HxI-Fxr_jX7	PMFP_hUt7UQ1sl	B3Bssyy6qJaX	?F6Gyzx3gw	
0-1-8											
1-3-0			1-4-4								
⊢ ⊢ 1-3-0										Scale = 1:2	27.0
15-0.11											
1.5x3											
1.5x3 = 3x5	= 3x3 =	1.5x3	3x3 =	1.5x3	3x3 =	1.5	5x3	=	4x5 =	1.5x3	
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	18	17	16	15		1	4	21 13		12	
3x6 =	3x5 =	3x5 =	1.5x3	3x3 =		3	x5 =	4x5 =		3x4 =	

			15-11-12			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCode IRC2015/TPI2014	CSI. TC 0.71 BC 0.88 WB 0.56 Matrix-S	Vert(LL) -0.2	in (loc) l/defl L/d 3 14-15 >818 360 2 14-15 >591 240 6 12 n/a n/a	PLATES MT20 Weight: 82 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 S	P No.2(flat) P No.1(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	2 11) oc purlins,

15-11-12

REACTIONS. (size) 19=0-3-8, 12=Mechanical Max Grav 19=890(LC 1), 12=1112(LC 1)

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

TOP CHORD 2-3=-1859/0, 3-4=-3019/0, 4-5=-3019/0, 5-6=-3442/0, 6-7=-3442/0, 7-8=-3159/0, 8-9=-3159/0, 9-10=-2122/0

- 18-19=0/1114, 17-18=0/2565, 16-17=0/3442, 15-16=0/3442, 14-15=0/3418, 13-14=0/2763, 12-13=0/1224 BOT CHORD
- 2-19=-1395/0, 2-18=0/970, 3-18=-919/0, 3-17=0/579, 5-17=-749/0, 10-12=-1562/0, 10-13=0/1169, 9-13=-835/0, WEBS 9-14=0/505, 7-14=-331/0, 7-15=-237/334

NOTES-

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

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

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

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

4) CAUTION, Do not erect truss backwards.

5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

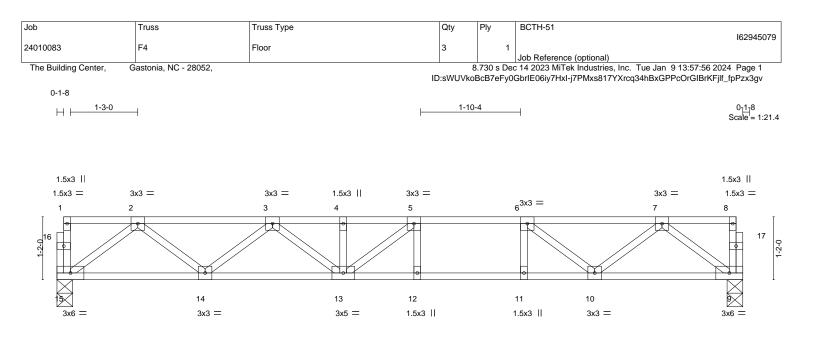
Vert: 19-21=-10, 12-21=-95(B=-85), 1-11=-100



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Edenton, NC 27932



			12-8-12 12-8-12			I
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.63 BC 0.82 WB 0.32 Matrix-S	Vert(LL) -0.15	n (loc) I/defl L/d 5 12-13 >999 360 0 12-13 >764 240 3 9 n/a n/a	PLATES MT20 Weight: 65 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SI	P No.2(flat) P No.1(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied c	, ,,,) oc purlins,

REACTIONS. (size) 15=0-3-8, 9=0-3-8 Max Grav 15=680(LC 1), 9=680(LC 1)

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

TOP CHORD 2-3=-1328/0, 3-4=-2022/0, 4-5=-2022/0, 5-6=-1935/0, 6-7=-1334/0

BOT CHORD 14-15=0/838, 13-14=0/1791, 12-13=0/1935, 11-12=0/1935, 10-11=0/1935, 9-10=0/817

WEBS 2-15=-1049/0, 2-14=0/638, 3-14=-603/0, 3-13=0/294, 5-13=-239/280, 7-9=-1022/0, 7-10=0/673, 6-10=-766/0

NOTES-

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

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



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b	Truss	Truss Type		Qty	Ply	BCTH-51			
4010083	L02	GABLE		1	1				1629450
The Duilding Center	Gastonia, NC - 2805				9 720 e De	Job Referen	ce (optional) Fek Industries, Inc. T	ue les 0.12.59.01	2004 Daga 1
The Building Center,	Gastonia, NC - 2005	52,		ID:sWUVkoBcE	87eFy0Gbrll	E06iy7HxI-YHi	ndBwCoiOH_KIWD1	S2gegsXuhY7F7F	c8aSz02zx3qp
0 ₁₁ 8					2	,	_	0.0	01
Η									
									Scale = 1:1
									3x3
1	2 3	4	5	6		7	8	9	10
•	0	0	0	0		0	0		
21	-	H H	H				H	H	
	-•	o	•	•		•	•		
20	19 1	8 17	16	15		14	13	12	11
3x3 =									3x3

F	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1	1-4-0	1-4-0	1-0-12
LOAD	NG (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 0.01	Vert(CT)	n/a -	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00 11	n/a	n/a		
BCDL	5.0	Code IRC2015/	TPI2014	Matrix-R					Weight: 51 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-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-8-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

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

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

6) CAUTION, Do not erect truss backwards.



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24010083 F2 Floor 5 1	
	162945081
Job Reference (optional)	
The Building Center, Gastonia, NC - 28052, 8.730 s Dec 14 2023 MiTek Industries, Inc. T	ue Jan 9 13:57:54 2024 Page 1
ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-nIIbWB6mbxH7MXvhZmvoI	K_W4ETaCNPwQILVYkWzx3gx
0-1-8	
1-3-0 <u>1-2-12 _</u>	0 ₁ 1 ₁ 8
	0-1-8 Scale = 1:26.2
3x5 = 3x3 = 3x3 = 3x3 = 3x3 =	3x5 =
1 2 3 4 5 6 7 8 9	10 11
	-
\boxtimes	
18 17 16 15 14 13	12
3x6 = 3x5 = 3x5 = 3x3 = 3x5 = 3x5 =	= 3x6 =

			15-11-12 15-11-12			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.51 BC 0.98 WB 0.44 Matrix-S	Vert(LL) -0.2	in (loc) l/defl L/d 2 14-15 >862 360 0 14-15 >623 240 6 12 n/a n/a	PLATES MT20 Weight: 83 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SF	P No.2(flat) P No.2(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o) oc purlins,

REACTIONS. (size) 19=0-3-8, 12=Mechanical

Max Grav 19=859(LC 1), 12=859(LC 1)

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

TOP CHORD 2-3=-1781/0, 3-4=-2873/0, 4-5=-2873/0, 5-6=-3224/0, 6-7=-3224/0, 7-8=-2886/0, 8-9=-2886/0, 9-10=-1779/0

BOT CHORD 18-19=0/1074, 17-18=0/2451, 16-17=0/3224, 15-16=0/3224, 14-15=0/3164, 13-14=0/2454, 12-13=0/1073

WEBS 2-19=-1344/0, 2-18=0/921, 3-18=-872/0, 3-17=0/538, 5-17=-650/0, 10-12=-1343/0, 10-13=0/919, 9-13=-879/0, 9-14=0/552, 7-14=-355/0, 7-15=-188/378

NOTES-

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

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

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

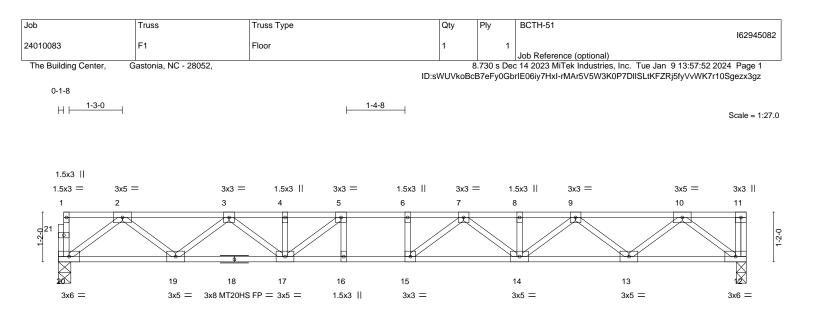
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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Edenton, NC 27932



	<u>5-4-8</u> 5-4-8			<u>16-1-8</u> 10-9-0		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.55 BC 0.74 WB 0.44 Matrix-S	Vert(LL) -0.22	n (loc) l/defl L/d 2 14-15 >880 360 0 14-15 >636 240 5 12 n/a n/a	PLATES MT20 MT20HS Weight: 84 lb	GRIP 244/190 187/143 FT = 20%F, 11%E
BOT CHORD 2x4 SF 12-18: WEBS 2x4 SF REACTIONS. (siz	 No.2(flat) No.2(flat) *Except* 2x4 SP No.1(flat) No.3(flat) No.3(flat) 20=0-3-8, 12=0-2-12 Grav 20=867(LC 1), 12=873(LC 1) 	· · · · · · ·	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing of except end verticals. Rigid ceiling directly applied) oc purlins,
TOP CHORD 2-3= 8-9= 8-9= BOT CHORD 19-2 12-1 12-1 WEBS 2-20	Comp./Max. Ten All forces 250 (lb) or -1802/0, 3-4=-2910/0, 4-5=-2910/0, 5-6= -2926/0, 9-10=-1799/0 0=0/1084, 17-19=0/2481, 16-17=0/3282 I3=0/1084 =-1358/0, 2-19=0/934, 3-19=-884/0, 3-1 [*] =-892/0, 9-14=0/564, 7-14=-367/0, 7-15	3282/0, 6-7=-3282/0, 7-8 , 15-16=0/3282, 14-15=0/3 7=0/548, 10-12=-1360/0, 1	3=-2926/0, 3214, 13-14=0/2484,			
,	re loads have been considered for this d	esign.				

2) All plates are MT20 plates unless otherwise indicated.

3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.

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

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

5) CAUTION, Do not erect truss backwards.



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b	Truss		Truss Typ	e			Qty	Ply	BCTH-5	1					
4010083	L01		GABLE				1	1	Job Refe	ronoo (r	ntional)			16	82945083
The Building Center,	Gastonia, NC	- 28052,				ID:sWU	VkoBc		ec 14 2023	MiTek I	ndustries, In	ic. Tue Jan TkXR6SJMA			
8 ¹ 17															
														Sca	le = 1:26
														3x	3
1 2	3	4	5	6	7		8	9		10	1	1	12	13	
	0	0	0	•		•	0		•	0		•	0		
			·····		****				•		****	•	~~~~		
27 26	25	24	23	22 21	2		<u>xxxx</u> 19	1	8	17	1	<u>~~~~~</u> 6	15	14	a
3x3 =	20		20	3x6 FP =	_	-			•			0			3
1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0		10-8-0	12-0-0		13-4-0	14-8-0		16-1-8	

F	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0 1	1-4-0	1-	4-0	1-4-	0	1-4-0	1-4-0	1-5-8	
LOADI	NG (psf)	SPAC	ING-	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	Lumbe	er DOL	1.00	BC	0.01		Vert(CT)	n/a	-	n/a	999				
BCLL	0.0	Rep S	Stress Incr	YES	WB	0.03		Horz(CT)	0.00	14	n/a	n/a				
BCDL	5.0	Code	IRC2015/TF	PI2014	Matri	x-R								Weight: 68 lb	FT = 20%F, 11	1%E
	D							PDACING.								

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)

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-1-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 27, 14, 26, 25, 24, 23, 21, 20, 19, 18, 17, 16, 15

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

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

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

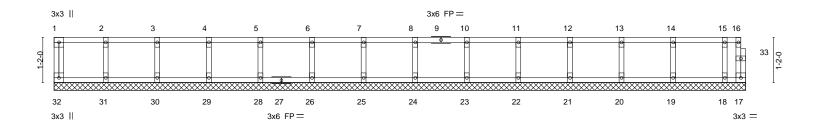
6) CAUTION, Do not erect truss backwards.



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Job	Truss	Truss Type	Qty	Ply	BCTH-51
			-	-	162945084
24010083	L03	GABLE	1	1	
					Job Reference (optional)
The Building Center, G	astonia, NC - 28052,		8	.730 s Dec	: 14 2023 MiTek Industries, Inc. Tue Jan 9 13:58:03 2024 Page 1
		ID:sW	UVkoBcB	7eFy0Gbrll	E06iy7HxI-0UK?PGDQTiPrxv5Qb9ZvBtOid5tD_aVIMEBXZVzx3go
					0- <u>1</u> -8
					Scale = 1:29.8



	-											BRAC	CING-							
BCDL	5.0		Co	de IRC2015/	TPI2014			Matr	ix-R										Weight: 76 lb	FT = 20%F, 11%E
BCLL	0.0		Re	p Stress Incr	YES		1	NΒ	0.03			Horz((CT)	0.00	17	n/a	n/a			
TCDL	10.0		Lu	mber DOL	1.00			ЗC	0.02			Vert(CT)	n/a	-	n/a	999			
TCLL	40.0		Pla	ate Grip DOL	1.00		-	ГС	0.08			Vert(I	LL)	n/a	-	n/a	999		MT20	244/190
LOADING	i (psf)		SF	ACING-	2-0-0			CSI.				DEFL		in	(loc)	l/defl	L/d		PLATES	GRIP
	1-4-0	•	1-4-0	1-4-0	1-4-0	· 1	-4-0	·	1-4-0	•	1-4-0		1-4-0	•	1-4-0	· 1-4	1-0 '	1-4-0	1-4-0	1-4-0 0-6-8
	1-4-0		2-8-0	4-0-0	5-4-0	-	-8-0	-	8-0-0		9-4-0		10-8-0		12-0-0	13-	-	14-8-0	16-0-0	17-4-0 17-10-8

TOP CHORD 2x4 SP No.2(flat)

] 2

BOT CHORD2x4 SP No.2(flat)WEBS2x4 SP No.3(flat)OTHERS2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 17-10-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

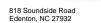
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

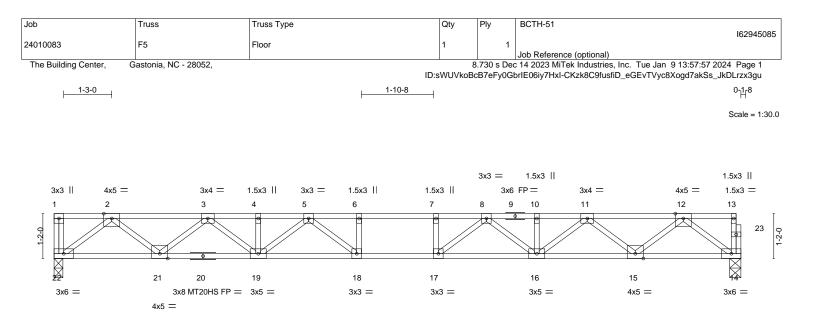
Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.



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			17-10-8				
			17-10-8				1
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.68 BC 0.83 WB 0.52 Matrix-S		in (loc) -0.30 17-18 -0.42 17-18 0.07 14		PLATES MT20 MT20HS Weight: 91 lb	GRIP 244/190 187/143 FT = 20%F, 11%E
BOT CHORD 2x4 14-2 WEBS 2x4 REACTIONS. (SP No.2(flat) SP No.2(flat) *Except* 0: 2x4 SP No.1(flat) SP No.3(flat) size) 22=0-2-12, 14=0-3-8 c Grav 22=969(LC 1), 14=963(LC 1)		BRACING- TOP CHORI BOT CHORI	excep	t end verticals.	directly applied or 5-6-6	oc purlins,
TOP CHORD 2- 8- BOT CHORD 21 1- WEBS 2- 12	ax. Comp./Max. Ten All forces 250 (lb) o 3=-2042/0, 3-4=-3400/0, 4-5=-3400/0, 5-6- 10=-3400/0, 10-11=-3400/0, 11-12=-2041/ -22=0/1211, 19-21=0/2838, 18-19=0/3809 4-15=0/1210 22=-1519/0, 2-21=0/1081, 3-21=-1037/0, 3 -14=-1516/0, 12-15=0/1082, 11-15=-1038, 17=-285/0, 6-18=-285/0	4057/0, 6-7=-4057/0, 7-8 0 , 17-18=0/4057, 16-17=0/ -19=0/717, 5-19=-522/0, 8	3=-4057/0, 3809, 15-16=0/283 5-18=-73/638,	,			

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

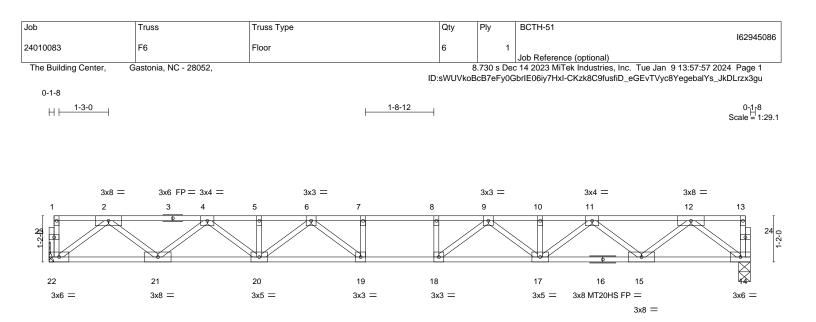
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.

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

5) CAUTION, Do not erect truss backwards.



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			17-8-12 17-8-12				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.62 BC 0.80 WB 0.51 Matrix-S	Vert(LL) -0.29	n (loc) l/defl 3 18-19 >713 3 18-19 >519 7 14 n/a	L/d 360 240 n/a	PLATES MT20 MT20HS Weight: 90 lb	GRIP 244/190 187/143 FT = 20%F, 11%E
BOT CHORD 2x4 14- ² WEBS 2x4 REACTIONS. (SP No.2(flat) SP No.1(flat) *Except* 6: 2x4 SP No.2(flat) SP No.3(flat) size) 22=Mechanical, 14=0-3-8 : Grav 22=955(LC 1), 14=955(LC 1)		BRACING- TOP CHORD BOT CHORD	except end verti	cals.	ectly applied or 5-8-1 r 10-0-0 oc bracing.	4 oc purlins,
TOP CHORD 2- 9- BOT CHORD 21 1- WEBS 2- 11	x. Comp./Max. Ten All forces 250 (lb) o 1=-2021/0, 4-5=-3360/0, 5-6=-3360/0, 6-7: 10=-3360/0, 10-11=-3360/0, 11-12=-2021/ -22=0/1200, 20-21=0/2809, 19-20=0/3760 1-15=0/1200 22=-1502/0, 2-21=0/1069, 4-21=-1025/0, 4 -15=-1025/0, 11-17=0/704, 9-17=-511/0, § 19=-270/0, 8-18=-270/0	=-3993/0, 7 ⁻ 8=-3993/0, 8-9 0 ı, 18-19=0/3993, 17-18=0/3 l-20=0/704, 12-14=-1502/0	760, 15-17=0/2809, , 12-15=0/1070,				

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

All plates are 1.5x3 MT20 unless otherwise indicated.

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



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 Science Michael Component Advancing Component Advancing Component Advancing and PCB and Component Advancing Component Compone and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type		Qty	Ply	BCTH-51			
24010083	F7	Floor		2	1				162945087
24010063		FIOOI		2	1	Job Reference (optional)		
The Building Center,	Gastonia, NC - 28052,			I		c 14 2023 MiTek I	ndustries, Inc. Tue Jan		
				ID:sWUVkoBc	B7eFy0Gb	IE06iy7HxI-8i5UZ	uAvPTvQTIneMJVz11E	v6UJ_2ep9ScDJF	Pkzx3gs
0-1-8									
H ⊢ 1-3-0			0-8-8 1-3	-4					0-1-8
									Scale [□] 1:29.8
					3x3 =				
4x5 =	3x4 =	= 3x3 =	= 3x3 =		3>	6 FP =	3x4 =	4x5 =	
1 2	3	4 5	6 7	8	9	10 11	12	13	14
				•		<u> </u>		- İ	
25-1-	$\langle \rangle$	\parallel $//$ $^{>}$				$\gg \parallel //$		$/ \sim$	26
				-					
24	23 22	21	20 19	18		17	16		
3x6 =	4x5 = 3x8 MT20H	S FP =	3x5 =	3x3 =		3x5 =	4x5 =		3x6 =
		3x5 =							
			8-9-4						

	8-0-0 8-0-0	8-9- 8-8-8 9- 0-8-8 0 0-0-	0-10 -3-6	<u>18-1-4</u> 9-0-10		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.56 BC 0.87 WB 0.52 Matrix-S	DEFL. in Vert(LL) -0.32 Vert(CT) -0.45 Horz(CT) 0.07	(loc) l/defl L/d 19 >659 360 19 >480 240 15 n/a n/a	PLATES MT20 MT20HS Weight: 95 lb	GRIP 244/190 187/143 FT = 20%F, 11%E
BOT CHORD 2x4 SP 15-22: WEBS 2x4 SP REACTIONS. (size	No.2(flat) No.2(flat) *Except* 2x4 SP No.1(flat) No.3(flat) e) 24=0-5-8, 15=0-3-8 rav 24=976(LC 1), 15=976(LC 1)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di except end verticals. Rigid ceiling directly applied o		oc purlins,
TOP CHORD 2-3=- 8-9=- 23-24 BOT CHORD 23-24 16-11 2-24= 13-15	Comp./Max. Ten All forces 250 (lb) of 2073/0, 3-4=-3461/0, 4-5=-3461/0, 5-6= 4164/0, 9-11=-3460/0, 11-12=-3460/0, 4=0/1227, 21-23=0/2885, 20-21=0/3892 7=0/2884, 15-16=0/1227 1536/0, 2-23=0/1102, 3-23=-1057/0, 3 5=-1537/0, 13-16=0/1102, 12-16=-1055/ =-458/324	-4136/0, 6 ⁻ 7=-4136/0, 7-8=-4 12-13=-2073/0 , 19-20=0/4164, 18-19=0/416 -21=0/735, 5-21=-551/0, 5-24	64, 17-18=0/3891, 0=0/372,			

NOTES-

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

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

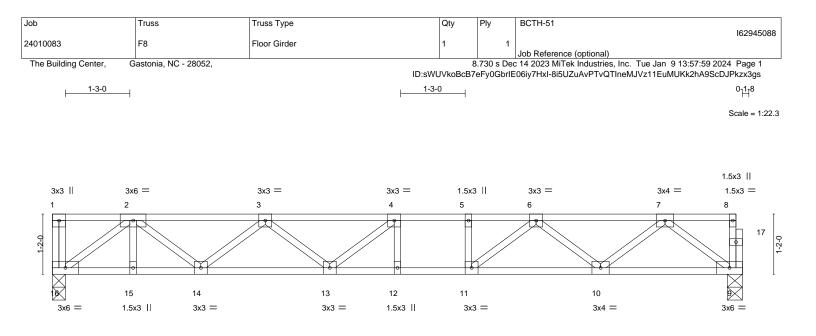
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

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



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		1	13-4-8 13-4-8	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.61	Vert(LL) -0.13 12-13 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.83	Vert(CT) -0.18 12-13 >864 240	
BCLL 0.0	Rep Stress Incr NO	WB 0.37	Horz(CT) 0.03 9 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 70 lb FT = 20%F, 11%
LUMBER-		1	BRACING-	
TOP CHORD 2x4 SP	PNo.2(flat)		TOP CHORD Structural wood sheathing di	ectly applied or 6-0-0 oc purlins,

BOT CHORD

TOP CHORD2x4 SP No.2(flat)BOT CHORD2x4 SP No.1(flat)WEBS2x4 SP No.3(flat)

except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-3-0, 9=0-3-8 Max Grav 16=989(LC 1), 9=749(LC 1)

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

- TOP CHORD 2-3=-1799/0, 3-4=-2391/0, 4-5=-2418/0, 5-6=-2418/0, 6-7=-1491/0
- BOT CHORD 15-16=0/1284, 14-15=0/1284, 13-14=0/2273, 12-13=0/2418, 11-12=0/2418, 10-11=0/2050, 9-10=0/926

WEBS 2-16=-1586/0, 2-14=0/658, 3-14=-616/0, 7-9=-1159/0, 7-10=0/735, 6-10=-728/0, 6-11=0/623

NOTES-

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

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

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

3) CAUTION, Do not erect truss backwards.

4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 381 lb down at 1-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

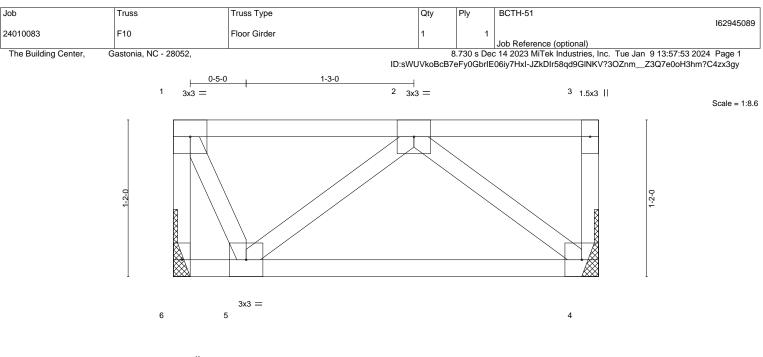
Vert: 9-16=-10, 1-8=-100

Concentrated Loads (lb)

Vert: 2=-301(B)



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1.5x3	
-------	--

3x3 =

	H			3-2-0 3-2-0					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loo	c) l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip D	DL 1.00	TC 0.18	Vert(LL) -	0.00	5 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL		BC 0.20	Vert(CT) -	0.01 4-	5 >999	240		
BCLL 0.0	Rep Stress I	ncr NO	WB 0.17	Horz(CT)	0.00	4 n/a	n/a		
BCDL 5.0	Code IRC20	15/TPI2014	Matrix-P					Weight: 18 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)

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-2-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 4=Mechanical Max Grav 6=401(LC 1), 4=475(LC 1)

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

TOP CHORD 1-6=-404/0

WEBS 2-4=-670/0, 2-5=-484/0, 1-5=0/366

NOTES-

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

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

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

3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 541 lb down at 1-10-4 on top

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

4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 4-6=-10, 1-3=-100 Concentrated Loads (lb)

Vert: 2=-541(F)



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4010083 The Building Center, 0건국	L04 Gastonia, NC - 28052,	GABLE	2		ID:sWUV			e (optional) k Industries, Inc. Ti /guNcbE2E0XiZ3gc		
0 ₁ 1 ₇ 8					ID:sWUV		c 14 2023 MiTe	k Industries, Inc. T		kubux45xzx3gn
0 ¹¹³ 8					ID:sWUV					kubux45xzx3gn
	2 3				12.5000	UBCB7 er you	5011E00iy/ HXI-V	guincuezeuxizagu	9190692197097097	-
	2 3									Scale = 1:'
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3x3 =										3x6 =
1-4-0	2-8-0	4-0-0		5-4-0	6-8-0	8-0		9-4-0	10-8-0	0-5-8
1-4-0	1-4-0	1-4-0	1	1-4-0	1-4-0	1-4	-0	1-4-0	1-4-0	0-5-8
OADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl L/d	PLA	TES GR	IP
CLL 40.0	Plate Grip DOL	1.00		0.09		n/a -	n/a 999			/190

JM		

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2(flat) BOT 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)

10.0

0.0

5.0

BRACING-TOP CHORD BOT CHORD

Vert(CT)

Horz(CT)

n/a

11

0.00

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 49 lb

FT = 20%F, 11%E

999

n/a

n/a

n/a

REACTIONS. All bearings 11-1-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 19, 11, 18, 17, 16, 15, 14, 13, 12

1.00

YES

BC

WB

Matrix-R

0.03

0.03

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

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

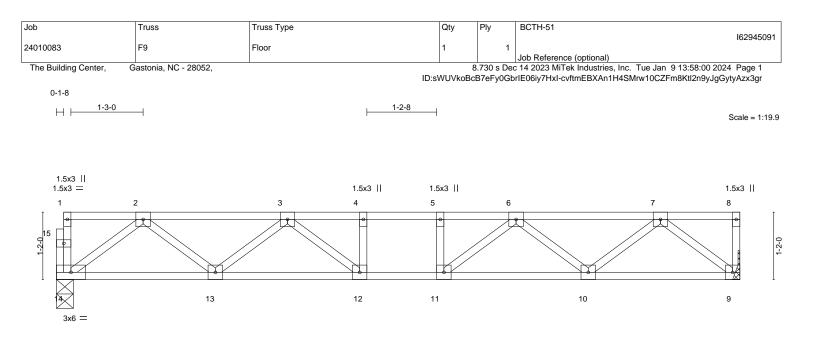
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

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

6) CAUTION, Do not erect truss backwards.



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			11-10-0 11-10-0			
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.28 BC 0.50 WB 0.28 Matrix-S	DEFL. i Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0	9 12 >999 240	PLATES MT20 Weight: 60 lb	GRIP 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SI	 No.2(flat) No.2(flat) No.3(flat) 		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied c	<i>,</i> , , , , , , , , , , , , , , , , , ,	oc purlins,

REACTIONS. (size) 14=0-3-8, 9=Mechanical Max Grav 14=634(LC 1), 9=641(LC 1)

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

TOP CHORD 2-3=-1217/0, 3-4=-1769/0, 4-5=-1769/0, 5-6=-1769/0, 6-7=-1195/0

BOT CHORD 13-14=0/779, 12-13=0/1619, 11-12=0/1769, 10-11=0/1606, 9-10=0/750

2-14=-975/0, 2-13=0/570, 3-13=-523/0, 3-12=-24/370, 7-9=-958/0, 7-10=0/580, 6-10=-535/0, 6-11=-13/381 WEBS

NOTES-

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

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

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

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

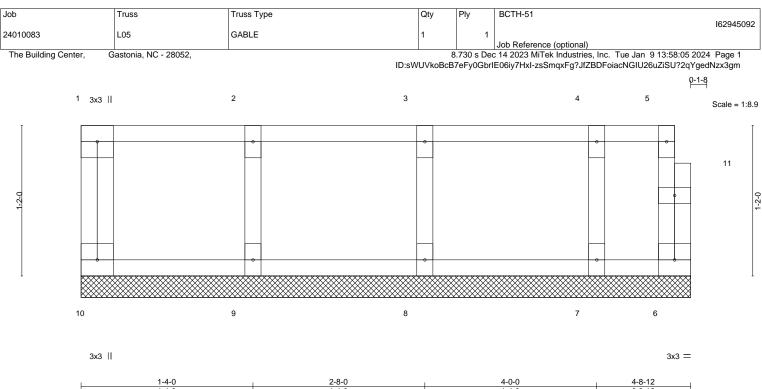
Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 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 Scietus Information**, and the from the Structure Building Component Advance interport of the property damage. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





	1-4-0	1-4-0	1-4-0	0-8-12
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYES	CSI. DEFL. TC 0.08 Vert(LL) BC 0.02 Vert(CT) WB 0.03 Horz(CT)	in (loc) l/defl L/d n/a - n/a 999 n/a - n/a 999 0.00 6 n/a n/a	PLATES GRIP MT20 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		Weight: 23 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-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-8-12 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-8-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

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

NOTES-

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

2) Gable requires continuous bottom chord bearing.

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

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

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

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

6) CAUTION, Do not erect truss backwards.



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