

Trenco 818 Soundside Rd Edenton, NC 27932

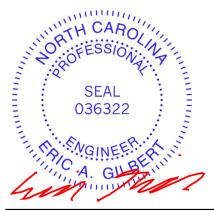
Re: 24010112 BCTH-69

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: I62949659 thru I62949673

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

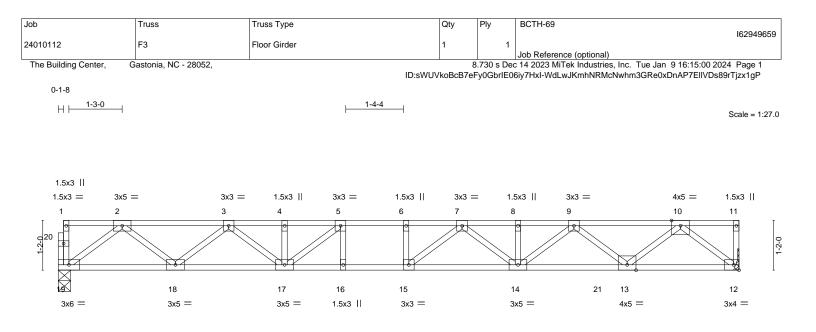
North Carolina COA: C-0844



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 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.



			15-11-12 15-11-12			
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 NO Code 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	<b>PLATES</b> MT20 Weight: 82 lb	<b>GRIP</b> 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	,	) oc purlins,

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

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

- BOT CHORD 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
- 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)

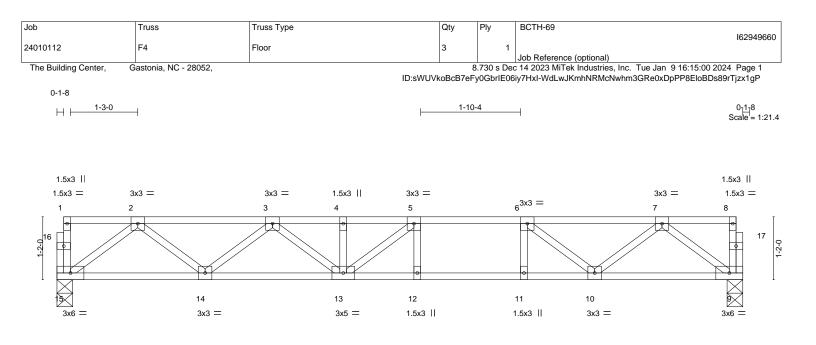
Vert: 19-21=-10, 12-21=-95(B=-85), 1-11=-100



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)



Edenton, NC 27932



			12-8-12 12-8-12			
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	<b>CSI.</b> TC 0.63 BC 0.82 WB 0.32 Matrix-S	Vert(LL) -0.1	n (loc) l/defl L/d 5 12-13 >999 360 0 12-13 >764 240 3 9 n/a n/a	PLATES MT20 Weight: 65 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SF	2 No.2(flat) 2 No.1(flat) 2 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.



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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

lob	Truss	Truss	Туре		Qty	Ply	BCTH-69			1000.00
4010112	L02	GABL	E		1	1				162949
The Building Center,	Gastonia, NC - 280	152				8 730 s De	Job Reference ( ec 14 2023 MiTek		ue Jan 9 16:15:0	7 2024 Page 1
The Building Conton,		,		I	D:sWUV		GbrIE06iy7HxI-oz			
0138										
										Scale = 1
										Scale = 1
										3x3
1	2	3	4	5	6		7	8	9	3x3 II 10
I []	-									
21		H		Ĥ	H		H	Ĥ	H	Ĥ
21										
÷										
	•	•	•	•	•		•	•	•	
20	19	18	17	16	15		14	13	12	11
3x3 =										3x3
1-4-0	2-8-0	4-0-0	5-4-0	6-8-0		8-0-0	9-4-0	10	-8-0 , 1	1-8-12
140	2-0-0	4-0-0	340	0-0-0		0-0-0	3-4-0			10.12

	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	I	1-4-0	1-4-0	1-0-12
LOADIN	G (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/T	PI2014	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.



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 **ANSUTPI1 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)

A MiTek Affi 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type		Qty	Ply	BCTH-69		
300	TIUSS	Truss Type		Qty	FIY	BCTH-09		162949662
24010112	F2	Floor		5	1			
						Job Reference (optiona		
The Building Center,	Gastonia, NC - 28052,						es, Inc. Tue Jan 916:14	
				ID:SVVUVKOE	scB/eFy0Gbr	1E06I97HXI-1RhX6_I3C8L	Dllm6aVZwPTjggX0IT0K54	4eUQHWHZX1gQ
0-1-8								
⊢			1-2-12					0-1-8 Scale = 1:26.2
111 1			I	I				Scale = 1:26.2
3x5	=	3x3 =	3x3 =	3x3	=	3x3 =	3x5 =	=
1 2		3 4	5	6 7	8	3 9	10	11
			<b></b>	• •	L	0 /9		
28	$\land$ //							
20							$\sim$ //	
					$\sim$			
	1.00		v		Ĺ	-0		
	10		10				10	10
	18	17	16	15		14	13	12
3x6 =	3x5 =	3x5 =		3x3 =	3	3x5 =	3x5 =	3x6 =

				15-11-12 15-11-12			
LOADING TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	<b>CSI.</b> TC 0.51 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	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER- TOP CHOI BOT CHOI WEBS	RD 2x4 SF RD 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	<i>y</i>	) oc purlins,

REACTIONS. (size) 19=0-3-8, 12=Mechanical Max Grav 19=859(LC 1), 12=859(LC 1)

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

 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.

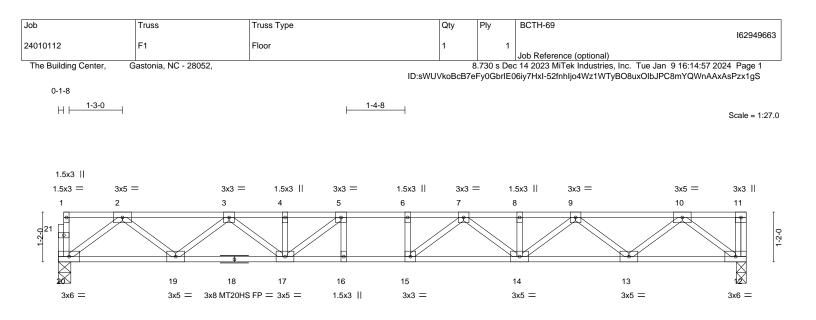
3) Refer to girder(s) for truss to truss connections.

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.



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 **ANSUTPI1 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)





	<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) -0.2	in (loc) l/defl 22 14-15 >880 30 14-15 >636 05 12 n/a	L/d 360 240 n/a	<b>PLATES</b> MT20 MT20HS Weight: 84 lb	<b>GRIP</b> 244/190 187/143 FT = 20%F, 11%E						
BOT CHORD 2x4 SF 12-18: WEBS 2x4 SF REACTIONS. (size	<ul> <li>No.2(flat)</li> <li>No.2(flat) *Except*</li> <li>2x4 SP No.1(flat)</li> <li>No.3(flat)</li> <li>No.3(flat)</li> <li>e) 20=0-3-8, 12=0-2-12</li> <li>Grav 20=867(LC 1), 12=873(LC 1)</li> </ul>		BRACING- TOP CHORD BOT CHORD	except end vert	icals.	ectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,						
FORCES. (lb) - Max. TOP CHORD 2-3=- 8-9=- BOT CHORD 19-20 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 <sup>*</sup> =-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 de plates unless otherwise indicated.	esign.											

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.



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 **ANSUTPI1 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)

A MiTek Affi 818 Soundside Road Edenton, NC 27932

1000 (000			H-69	BCT	Ply	Qty		•	Truss Type		Truss		Job
16294966		anal)	Reference (option	1		1			GABLE		L01		24010112
	nc. Tue Jan 916:15:0 wQXY2GCTyTqN89aB	stries, Inc. Tue	023 MiTek Industr	Dec 14 2		):sWUVkoBc	ID			- 28052,	Gastonia, NC - 2	g Center, 0	The Building Cen
													<sup>0</sup> <sup>1</sup> 78
Scale = 1:26													
3x3													
13	1 12	11	10	9	g	8	7	6	5	4	3	2	1
<del>\</del>	<del>0</del> 0	0	0	0		<u> </u>	0	0	<u>e</u>	0	0	0	
14		16	17	18		19	20	22 21	23	24	25	26	27
3x3								3x6 FP =				=	3x3 =

<u>  1-4-0</u>   1-4-0	2-8-0   4-0-0   1-4-0 1-4-0	5-4-0	6-8-0 1-4-0	8-0-0	9-4-0		8-0 4-0	12-0- 1-4-		13-4-0 1-4-0	14-8-0 1-4-0	<u>  16-1-8</u>   1-5-8
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 YES 014	BC 0 WB 0	0.08 0.01 0.03	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 14	l/defl n/a n/a n/a	L/d 999 999 n/a		PLATES MT20 Weight: 68 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
BCLL 0.0 BCDL 5.0	Rep Stress Incr Code IRC2015/TPI20		WB 0 Matrix-F		Horz(CT)	0.00	14	n/a	n/a		Weight: 68 lb	FT = 20%F, 11%

## UMBER-

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

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 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.

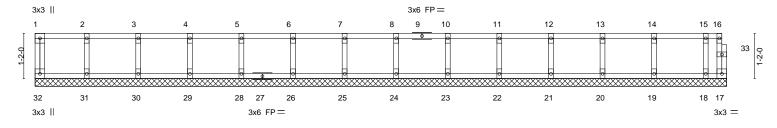
Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.



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)

Job	Truss	Truss Type	Qty	Ply	BCTH-69
			,	,	162949665
04040440	1.00				102345005
24010112	L03	GABLE	1	1	
					Job Reference (optional)
The Building Center, G	astonia, NC - 28052,		8	.730 s Deo	c 14 2023 MiTek Industries, Inc. Tue Jan 9 16:15:08 2024 Page 1
0		ID:sW			IE06iy7HxI-H9qx_3siUvMTK9IIXyaWLdYIxe3UdUhOiO5GlGzx1gH
					0- <mark>1</mark> -8
					П
					Scale = 1:29.8



LUMBER	-								BR	ACING-							
BCDL	5.0	Code	e IRC2015/	TPI2014		Matri	x-R									Weight: 76 lb	FT = 20%F, 11%E
BCLL	0.0	Rep	Stress Incr	YES		WB	0.03		Ho	rz(CT)	0.00	17	n/a	n/a			
TCDL	10.0	Lum	ber DOL	1.00		BC	0.02		Ve	rt(CT)	n/a	-	n/a	999			
TCLL	40.0	Plate	e Grip DOL	1.00		тс	0.08		Ve	rt(LL)	n/a	-	n/a	999		MT20	244/190
	(psf)	SPA	CING-	2-0-0		CSI.			DE	FL.	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'
H	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	-	4-0	14-8-0	16-0-0	<u>17-4-0 1<sub>1</sub>7-10-8</u>

2

> TOP CHORD2x4 SP No.2(flat)BOT CHORD2x4 SP No.2(flat)WEBS2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)

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.

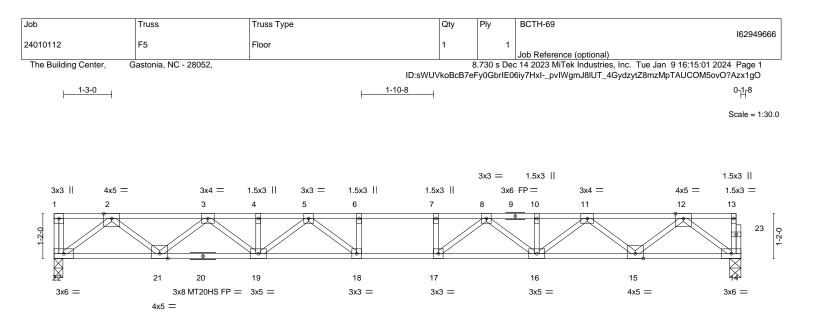
Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.



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)





			17-10-8					
			17-10-8					
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL.	in (loc	c) l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.68	Vert(LL) -C	.30 17-1	8 >696	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.83	( )	.42 17-18		240	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.52	Horz(CT) C	.07 1	4 n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 91 lb	FT = 20%F, 11%E
LUMBER-	· ·		BRACING-					
	SP No.2(flat)		TOP CHORD	Stru	ctural wood	l sheathing di	rectly applied or 5-6-6	oc purlins,
BOT CHORD 2x4	SP No.2(flat) *Except*				ept end vert		2 11	, <i>,</i>
	20: 2x4 SP No.1(flat)		BOT CHORD	Rigio	d ceiling dir	ectly applied	or 10-0-0 oc bracing.	
WEBS 2x4	SP No.3(flat)							
REACTIONS.	size) 22=0-2-12, 14=0-3-8							
	x Grav $22=969(LC 1), 14=963(LC 1)$							
FORCES. (lb) - N	ax. Comp./Max. Ten All forces 250 (lb) o	less except when shown.						
	3=-2042/0, 3-4=-3400/0, 4-5=-3400/0, 5-6=	, , ,	8=-4057/0,					
	10=-3400/0, 10-11=-3400/0, 11-12=-2041/							
	-22=0/1211, 19-21=0/2838, 18-19=0/3809	, 17-18=0/4057, 16-17=0/3	3809, 15-16=0/2838,					
	4-15=0/1210 22=-1519/0, 2-21=0/1081, 3-21=-1037/0, 3	-10-0/717 5-10522/0 5	5-1873/638					
	2-14=-1516/0, 12-15=0/1081, 3-21=-1037/0, 3	, , ,	,					
	-17=-285/0, 6-18=-285/0	0, 11 10-0,111,0 10- 02	2,0,0 11 = 10,000,					

#### NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

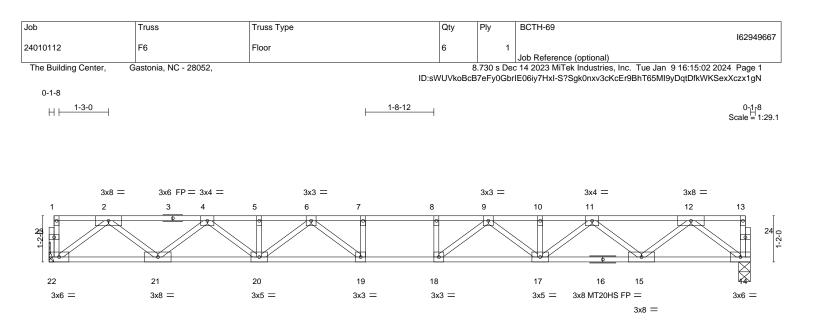
3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.

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.



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)



			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(CT) -0	in (loc) .29 18-19 .40 18-19 .07 14	l/defl >713 >519 n/a	L/d 360 240 n/a	PLATES MT20 MT20HS Weight: 90 lb	<b>GRIP</b> 244/190 187/143 FT = 20%F, 11%E
BOT CHORD 2x4 SI 14-16: WEBS 2x4 SI REACTIONS. (siz	P No.2(flat) P No.1(flat) *Except* : 2x4 SP No.2(flat) P No.3(flat) re) 22=Mechanical, 14=0-3-8 Grav 22=955(LC 1), 14=955(LC 1)		BRACING- TOP CHORD BOT CHORD	except	end verti	cals.	rectly applied or 5-8-1 or 10-0-0 oc bracing.	4 oc purlins,
TOP CHORD 2-4= 9-10 BOT CHORD 21-2 14- WEBS 2-22 11-1	Comp./Max. Ten All forces 250 (lb) oi -2021/0, 4-5=-3360/0, 5-6=-3360/0, 6-7= =-3360/0, 10-11=-3360/0, 11-12=-2021// 2=0/1200, 20-21=0/2809, 19-20=0/3760 15=0/1200 =-1502/0, 2-21=0/1069, 4-21=-1025/0, 4 5=-1025/0, 11-17=0/704, 9-17=-511/0, 9 =-270/0, 8-18=-270/0	3993/0, 7 <sup>-</sup> 8=-3993/0, 8-9 ) , 18-19=0/3993, 17-18=0/3 -20=0/704, 12-14=-1502/0	⊨=-3993/0, 3760, 15-17=0/2809, 0, 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.

3) 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-69			1000.40	
24010112	F7	Floor		2		1			162949	608
						Job Reference	(optional)			
The Building Center,	Gastonia, NC - 28052,		IL	):sWUVkoBc			Industries, Inc. Tue xMoZfMkBEOQLkO?			
0-1-8					2101 9000	2001,771,881 11002		2021119000901110	0 1 022/1 g	
⊣ ⊢ 1-3-0			<u> 8-8</u>   <u></u> 1-3	-4					0-1-8 Scale = 1	
									Scale - I	.29.0
					3x3 =	=				
4x5 =	3x4 =	3	x3 = 3x3 =		3	8x6 FP≡	3x4 =	4x5 =		
1 2	3	4 5	6 7	8	9	10 11	12	13	14	
		•		<u>e</u>						26
25					/ `	$\mathbb{N}$				26
				- F						I
	23 22	21	20 19	18		17	16			
3x6 =	4x5 = 3x8 MT20HS		3x5 =	3x3 =		3x5 =	4x5	=	3x6 =	
		3x5 =								
			8-9-4							

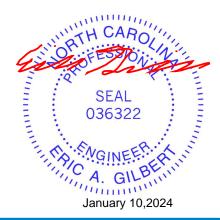
	8-0-0		8-9-4 8 9 <sub>1</sub> 0-1 <sub>1</sub> 0			18-1-4			
	8-0-0		0-3-6			9-0-10			
		C	)-0-12						
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	<b>CSI.</b> TC 0.56	<b>DEFL.</b> ir Vert(LL) -0.32	( )	l/defl >659	L/d 360	PLATES MT20	<b>GRIP</b> 244/190	
TCDL 10.0 BCLL 0.0	Lumber DOL 1.00 Rep Stress Incr YES	BC 0.87 WB 0.52	Vert(CT) -0.45 Horz(CT) 0.07	19	>480 n/a	240 n/a	MT20HS	187/143	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	()				Weight: 95 lb	FT = 20%F, 11%I	
LUMBER-			BRACING-	<b>0</b> , ,					
	No.2(flat) No.2(flat) *Except*		TOP CHORD	Structural wood sheathing directly applied or 5-8-1 oc purlins, except end verticals.					
	2x4 SP No.1(flat)		BOT CHORD				or 10-0-0 oc bracing.		
					, ching and	oony approa	or to o o oo brading.		
REACTIONS. (size	e) 24=0-5-8, 15=0-3-8								
(	rav 24=976(LC 1), 15=976(LC 1)								
	Comp./Max. Ten All forces 250 (lb) o 2073/0, 3-4=-3461/0, 4-5=-3461/0, 5-6:								
	4164/0. 9-11=-3460/0. 11-12=-3460/0.	, , ,	- +10+/0,						
	I=0/1227, 21-23=0/2885, 20-21=0/3892	4164, 17-18=0/3891,							
16-1	7=0/2884, 15-16=0/1227	, ,							
WEBS 2-24=	-1536/0, 2-23=0/1102, 3-23=-1057/0, 3	3-21=0/735, 5-21=-551/0, 5	5-20=0/372,						
	5=-1537/0, 13-16=0/1102, 12-16=-1055 =-458/324	/0, 12-17=0/735, 9-17=-55	0/0, 9-18=-42/598,						
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.

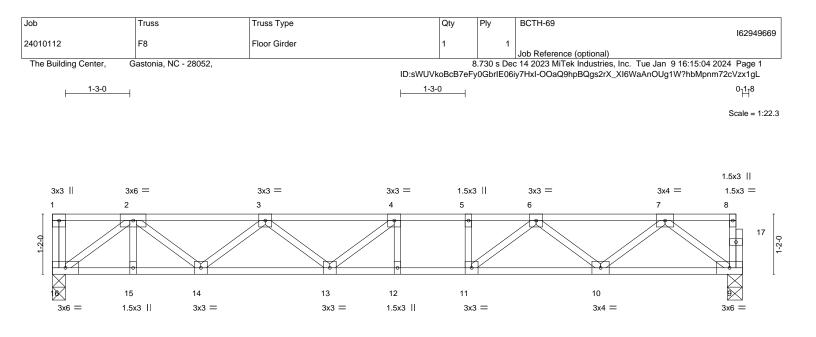
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

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



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 <u>ANSI/TPI Quality Criteria and DSB-22</u> available from Truss Plate Institute (www.tpinst.org) and <u>Before Building Component Scient Information</u> available from the Structural Building Component Science (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Road Edenton, NC 27932



	1	1	13-4-8 13-4-8	
LOADING (psf)	<b>SPACING-</b> 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%E
LUMBER-		1	BRACING-	
TOP CHORD 2x4 SI	P No.2(flat)		TOP CHORD Structural wood sheathing dire	ectly applied or 6-0-0 oc purlins,

BOT CHORD

 TOP CHORD
 2x4 SP No.2(flat)

 BOT CHORD
 2x4 SP No.1(flat)

 WEBS
 2x4 SP No.3(flat)

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. (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

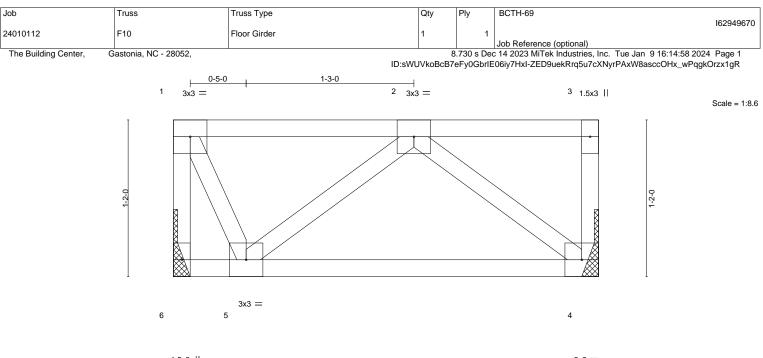
Uniform Loads (plf)

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

Concentrated Loads (lb) Vert: 2=-301(B)



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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



1.5x3	
-------	--

3x3 =

			3-2-0 3-2-0									
LOADING TCLL	6 (psf) 40.0	SPACING- Plate Grip DOL	2-0-0 1.00	CSI. TC	0.18	DEFL. Vert(LL)	in -0.00	(loc) 5	l/defl >999	L/d 360	PLATES MT20	<b>GRIP</b> 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.01	4-5	>999	240		210,000
BCLL BCDL	0.0 5.0	Rep Stress Incr Code IRC2015/TF	NO PI2014	WB Matrix	0.17 «-P	Horz(CT)	0.00	4	n/a	n/a	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)



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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type		Q	tv	Ply	BCTH	-69					
					-,	,						162949	9671
24010112	L04	GABLE		1		1							
									(optional)				
The Building Center,	Gastonia, NC - 28052,										an 9 16:15:08		
				ID:SVVU	VKOBCB	reryuga	Drie06iy7	нхі-нэф	x_35IUVI\	IIK9IIXyavvL	dYIqe3LdUgOi	105GIGZX1gH	1
0 <sub>1</sub> 18													
												Scale = 1	:18.4
												3x3	
1	2 3	4	5		6		7	7		8	ç	9 10	
T		· · · · · · · · · · · · · · · · · · ·											Т
		2 2		<u> </u>	<u> </u>			<u> </u>		•			
													1-2-0
													-
		,		•						•			
			******			*****	*****		*****		******		1
19	18 17	16	1	5	14			13	*****	12	*****	11	
3x3 =												3x6 =	
1-4-0	<u>2-8-0</u> 1-4-0	4-0-0	<u>5-4-0</u> 1-4-0	6-8-0		<u>8-0</u> 1-4	)-0		9-4-0		10-8-0	11-1-8	
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0		1-4	+-U		1-4-0		1-4-0	0-5-8	
LOADING (psf)	SPACING-	2-0-0 CS	SI.	DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP		
TCLL 40.0	Plate Grip DOL	1.00 TC	0.09	Vert(LL)	n/a	-	n/a	999		MT20	244/1	90	
TCDL 10.0	Lumber DOL	1.00 BC	0.03	Vert(CT)	n/a	-	n/a	999					

LUMBER-	
---------	--

BCLL

BCDL

TOP CHORD2x4 SP No.2(flat)BOT CHORD2x4 SP No.2(flat)WEBS2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)

0.0

5.0

BRACING-TOP CHORD BOT CHORD

Horz(CT)

0.00

11

n/a

n/a

0.03

WB

Matrix-R

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

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

YES

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

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.

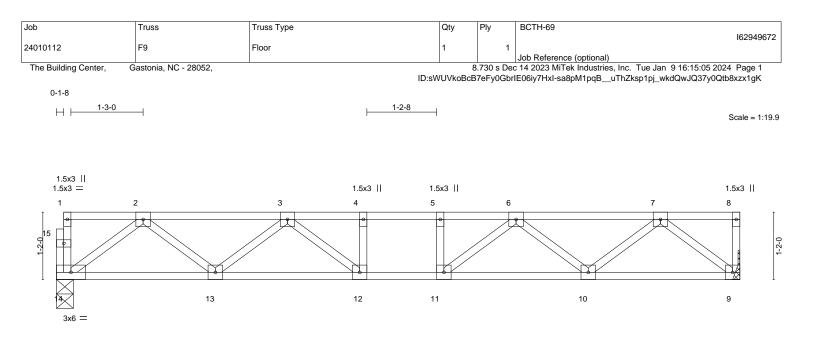
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

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

6) CAUTION, Do not erect truss backwards.



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)



			11-10-0 11-10-0					
LOADING(psf)TCLL40.0TCDL10.0BCLL0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.28 BC 0.50 WB 0.28	DEFL. ii Vert(LL) -0.07 Vert(CT) -0.09 Horz(CT) 0.02	9 12 >999 240	PLATES MT20	<b>GRIP</b> 244/190		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 60 lb	FT = 20%F, 11%E		
LUMBER-			BRACING-					
	P No.2(flat) P No.2(flat)		TOP CHORD	HORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.				
WEBS 2x4 S	P No.3(flat)		BOT CHORD	•				

WEBS 2x4 SP No.3(flat) **REACTIONS.** (size) 14=0-3-8, 9=1

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

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

WEBS 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

### 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.

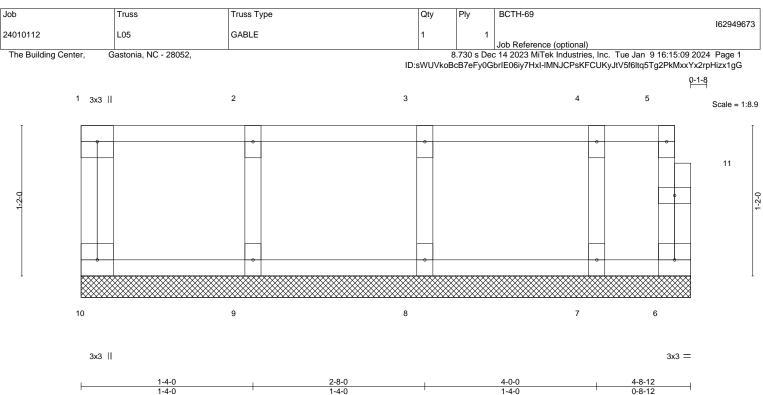
Strongbacks to be attached to walls at their outer ends or restrained by other means.

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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)





		1-4-0		1-4-0		1	1-4-0		0-8-12			
LOADING TCLL	(psf) 40.0	SPACING- Plate Grip DOL	2-0-0 1.00	CSI. TC	0.08	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190
	10.0 0.0	Lumber DOL Rep Stress Incr	1.00 YES	BC WB	0.02 0.03	Vert(CT) Horz(CT)	n/a 0.00	- 6	n/a n/a	999 n/a	-	
BCDL	5.0	Code IRC2015/TF	912014	Matri	x-R	- (- )		_			Weight: 23 lb	FT = 20%F, 11%E

## LUMBER-

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 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. (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.



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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

