

Trenco 818 Soundside Rd Edenton, NC 27932

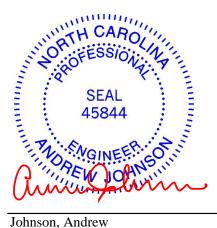
Re: 24021003 BCTH-43

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: I63996926 thru I63996940

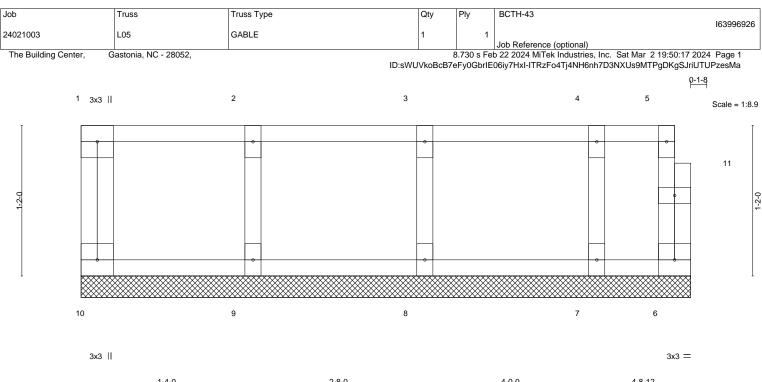
My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



March 4,2024

**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.



	1-4-0 1-4-0	2-8-0 1-4-0	4-0-0 1-4-0	4-8-12 0-8-12
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI.         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.

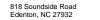
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

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

6) CAUTION, Do not erect truss backwards.



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)



100000		3	BCTH-43	Ply	(ty			Truss Type		Truss	b
1639969				1				GABLE		L04	4021003
2 19:50:17 2024 Page 1		erence (optional)		720 a Fa					0 28052	Gastonia, NC	The Building Center,
NPg3KgRJriUTUPzesMa						ID:sWU\			C - 20052,	Gastonia, NC	The Building Center,
											0 <sub>[1]</sub> 8
Scale = 1:1											
3x3											
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11	12	××××××××××××××××××××××××××××××××××××××	13	******	<u>******</u> 14	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	***************************************		17	18	19
3x6 =											3x3 =
10-8-0 <sub>1</sub> 11-1-8	1	9-4-0	)-0	8-0-		6-8-0	5-4-0	4-0-0	8-0	2-8-0	1-4-0
<u>10-8-0   11-1-8   1-4-0   0-5-8   </u>	<sup>†</sup> 1	1-4-0		1-4-	1	1-4-0	5-4-0 1-4-0	1-4-0	4-0	1-4-(	1-4-0

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 0.09 BC 0.03 WB 0.03 Matrix-R	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 11 n/a n/a	PLATES         GRIP           MT20         244/190           Weight: 49 lb         FT = 20%F, 11%E
LUMBER-			BRACING-	

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 11-1-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 19, 11, 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.

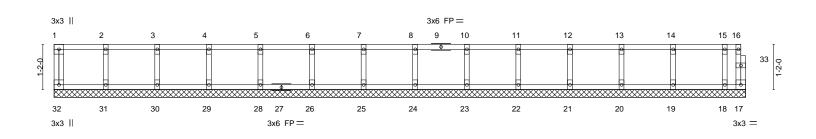


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Job	Truss	Truss Type	Qty	Plv	BCTH-43
				,	163996928
					103990928
24021003	L03	GABLE	1	1	
					Job Reference (optional)
The Building Center,	Gastonia, NC - 28052,			3.730 s Fel	b 22 2024 MiTek Industries, Inc. Sat Mar 2 19:50:16 2024 Page 1
-		ID:s/	<b>NUVkoBc</b> E	37eEv0Gbr	IE06iv7HxI-aGtb2S3rvmERVd6wfMsIxedBI2KzbDC9c2kwvzzesMb

0-1-8

Scale = 1:29.8



1	1-4-0	1	2-8-0	4-0-0	5-4-0	<sub>1</sub> 6-8-0	8-0-0	9-4-0	10-8-	0	12-0-0	13-	4-0	14-8-0	16-0-0	17-4-0 1 <sub>1</sub> 7-10-8
	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 <sup>'</sup>	1-4-0	1-4-0	1-4-0 0-6-8
LOADIN	G (psf)		SPA	ACING-	2-0-0	(	CSI.	C	EFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL	40.0		Plat	te Grip DOL	_ 1.00	1	C 0.08		ert(LL)	n/a	-	n/a	999		MT20	244/190
TCDL	10.0		Lum	nber DOL	1.00	E	3C 0.02	\	ert(CT)	n/a	-	n/a	999			
BCLL	0.0		Rep	Stress Inc	r YES	\	VB 0.03	- F	orz(CT)	0.00	17	n/a	n/a			
BCDL	5.0		Cod	de IRC2018	5/TPI2014	1	/latrix-R		. ,						Weight: 76 lb	FT = 20%F, 11%E
LUMBER									RACING-							
TOP CH	ORD 2	x4 SF	P No.2(flat)					Т	OP CHOF	RD	Structu	ural wood	sheath	ing directly	applied or 6-0-0	) oc purlins,

BOT CHORD

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

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

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. (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.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

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Edenton, NC 27932

Job	Truss	Truss Type		Qty	Ply	BCTH-43	
24021003	L02	GABLE		1	1	Job Reference (optional)	163996929
The Building Center, 0118	Gastonia, NC - 28052,			ID:sWUVkoBcB7		b 22 2024 MiTek Industries, Inc. Sat Mar 2 6iy7HxI-M4JDr62DBS7atTXk6eL3PR400b_t	
							Scale = 1:19.
							3x3
1 2	3	4	5	6		7 8 9	9 10
	9 18		16	• • • •			
3x3 =							3x3
1-4-0	, 2-8-0 j	4-0-0 <sub>1</sub> 5	-4-0 6	-8-0	8-0-0	, 9-4-0 , 10-8-0	ı 11-8-12 <sub>-</sub>

	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
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/TI	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.



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ob	Truss		Truss Type	!			Qty	Ply	BCTH-4	3			
1021003	L01		GABLE				1	1					163990
The Building Center,	Gastonia, NC - 280	52						8 730 c F		erence (optio	nal) stries, Inc. Sat	Mar 2 10.50.1	4 2024 Page
The Building Center,	Gastonia, NC - 200	52,					ID:sWUVk				2bQ9?jFJyYYx		
0- <mark>1-</mark> 8													
													Scale = 1
	0	4	-			7				40		12	3x3
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27 26	25	24	23		21	20	19	1	8	17	16	15	14
3x3 =				3x6 FP =	_								3x3
1-4-0	2-8-0 4-0-		5-4-0	6-8-0	8-0-0	9-4	-	10-8-0	12-0-0		-4-0 14	-8-0 1	6-1-8

LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L	99
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL) n/a - n/a 99	
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 99	
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 14 n/a n	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R		Weight: 68 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 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. (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.

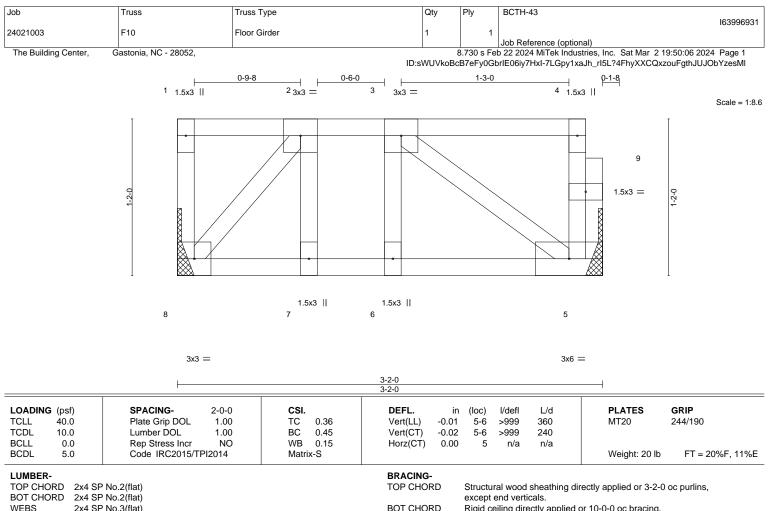
Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.



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2x4 SP No.3(flat) WEBS

REACTIONS. 5=Mechanical, 8=Mechanical (size) Max Grav 5=437(LC 1), 8=425(LC 1)

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

TOP CHORD 2-3=-431/0

BOT CHORD 7-8=0/431, 6-7=0/431, 5-6=0/431 3-5=-526/0, 2-8=-653/0 WEBS

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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 591 lb down at 1-10-4 on top

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

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

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

Uniform Loads (plf)

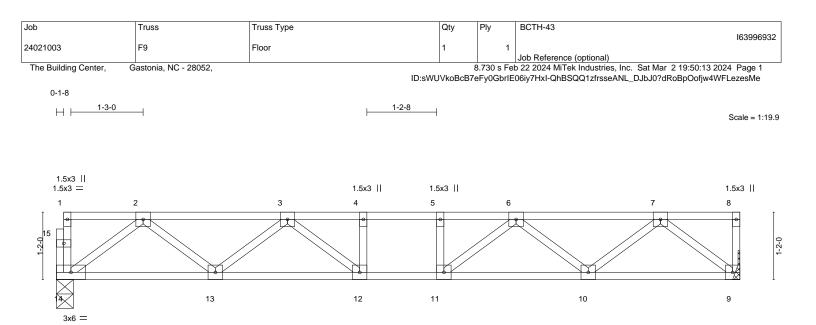
Vert: 5-8=-10, 1-4=-100 Concentrated Loads (lb)

Vert: 3=-541(F)



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

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				<u>11-10-0</u> <u>11-10-0</u>			
TCDL 10 BCLL 0	osf) 0.0 0.0 0.0 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.28 BC 0.50 WB 0.28 Matrix-S	DEFL.         i           Vert(LL)         -0.07           Vert(CT)         -0.09           Horz(CT)         0.02	9 12 >999 240	PLATES MT20 Weight: 60 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD BOT CHORD WEBS	2x4 SP	No.2(flat) No.2(flat) No.3(flat)	1	BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied of	,	) oc purlins,

14=0-3-8, 9=Mechanical (size)

REACTIONS. 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.

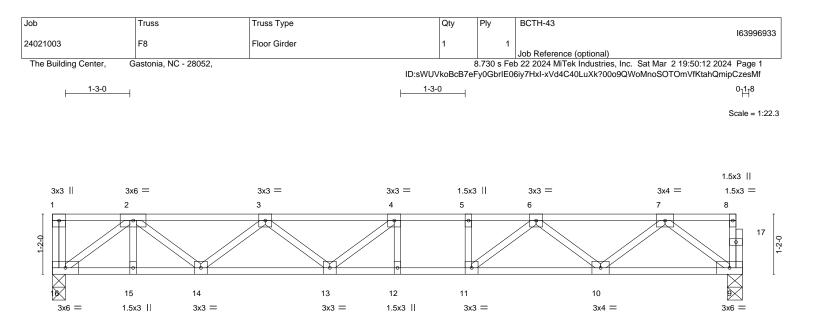
Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



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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 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat) BOT CHORD

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

REACTIONS. 16=0-3-0, 9=0-3-8 (size) 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

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 WEBS

# 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 that the operating of the second se 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	BCTH-43			
		_					163	3996934
24021003	F7	Floor	2	1	Job Reference (opt	ional)		
The Building Center, (	J Gastonia, NC - 28052,			8.730 s Fe	b 22 2024 MiTek Ind	lustries, Inc. Sat Mar	2 19:50:12 2024 Pa	iae 1
<b>3 1 1 1</b>		ID:s <sup>1</sup>				IXk?00o9QWoMnoSP		
0-1-8								
⊣ ⊢ 1-3-0		0-8-8	<u> </u>				( Scal	)-1-8 ∋ = 1:29.8
							Court	5 - 1.20.0
				3x3 =				
4x5 =	3x4 =	3x3 = 3x3 =				3x4 =	4x5 =	
1 2	3	4 5 6 7	8	9	10 11	12	13 14	
			•			æ.		
				$/$ $\sim$	$\parallel$ $//$			26 0-2-1
	<u>_</u>	<u> </u>			Ŭ	<u>L                                </u>	Ď	
	23 22	21 20 19	18		17	16		\$
3x6 =	4x5 = 3x8 MT20HS FP =	3x5 =	3x3 =		3x5 =	4x5 =	3x6	=
		3x5 =						

			8-9-4					
	<u> </u>	8-8-8 0-8-8	9 <sub>1</sub> 0-1 <u>0</u> 0-3-6			<u>18-1-4</u> 9-0-10		
		0	-0-12					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0		TC 0.56	Vert(LL) -0.32		>659	360	MT20	244/190
TCDL 10.0	•	BC 0.87	Vert(CT) -0.45		>480	240	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.52	Horz(CT) 0.07	15	n/a	n/a		
BCDL 5.0		Matrix-S	()				Weight: 95 lb	FT = 20%F, 11%
LUMBER-		1	BRACING-					
TOP CHORD	2x4 SP No.2(flat)		TOP CHORD	Structu	ral wood	sheathing di	irectly applied or 5-8-1	oc purlins.
BOT CHORD 2x4 SP No.2(flat) *Except*					end vert	0		
	15-22: 2x4 SP No.1(flat)		BOT CHORD	Rigid c	eiling dire	ectly applied	or 10-0-0 oc bracing.	
	2x4 SP No.3(flat)			0	Ū	,	Ŭ	
REACTIONS.	(size) 24=0-5-8, 15=0-3-8							
	Max Grav 24=976(LC 1), 15=976(LC 1)							
	- Max. Comp./Max. Ten All forces 250 (lb) o	loss avaant whan shown						
TOP CHORD	2-3=-2073/0, 3-4=-3461/0, 4-5=-3461/0, 5-6=							
	8-9=-4164/0. 9-11=-3460/0. 11-12=-3460/0.	, , ,						
BOT CHORD	23-24=0/1227, 21-23=0/2885, 20-21=0/3892		116/ 17 10_0/2001					
BOT CHORD	16-17=0/2884. 15-16=0/1227	, 19-20=0/4104, 18-19=0/2	+104, 17-10=0/3091,					
WEBS	2-24=-1536/0, 2-23=0/1102, 3-23=-1057/0, 3	-21-0/735 5-21-551/0 5	5-20-0/372					
WEB3	13-15=-1537/0. 13-16=0/1102. 12-16=-1057/0.	, , , , ,	,					
	7-20=-458/324	0, 12-17=0/735, 9-17=-55	0/0, 3 - 10 = -42/590,					
	1-20=-400/024							
NOTES-								
IUIEO-								

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

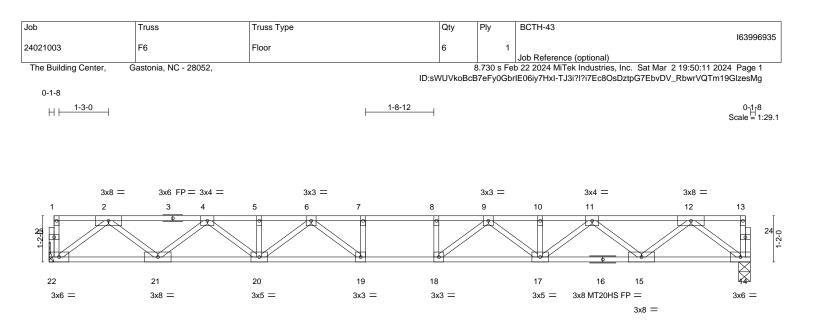
2) All plates are MT20 plates unless otherwise indicated.3) All plates are 1.5x3 MT20 unless otherwise indicated.

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 ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Schut Information, purplication component of component development properties. 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(LL) -0.29	loc) l/defl 18-19 >713 18-19 >519 14 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 S 14-16 WEBS 2x4 S REACTIONS. (siz	P No.2(flat) P No.1(flat) *Except* : 2x4 SP No.2(flat) P No.3(flat) ze) 22=Mechanical, 14=0-3-8 Grav 22=955(LC 1), 14=955(LC 1)		BRACING- TOP CHORD BOT CHORD	except end vert	icals.	rectly applied or 5-8-1 or 10-0-0 oc bracing.	4 oc purlins,
FORCES.         (lb) - Max           TOP CHORD         2-4=           9-10           BOT CHORD         21-2           44-         4-1           WEBS         2-22           11-1	. Comp./Max. Ten All forces 250 (lb) o -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 2=-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-{ 0 1, 18-19=0/3993, 17-18=0/ I-20=0/704, 12-14=-1502/	9=-3993/0, 3760, 15-17=0/2809, 0, 12-15=0/1070,				

#### NOTES-

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

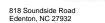
2) All plates are MT20 plates unless otherwise indicated.

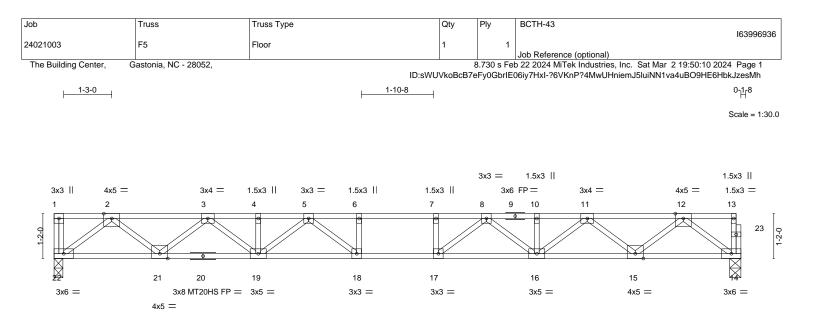
3) All plates are 1.5x3 MT20 unless otherwise indicated.

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)





L			17-10-8					
			17-10-8					
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCodeIRC2015/TPI2014	<b>CSI.</b> TC 0.68 BC 0.83 WB 0.52 Matrix-S	Vert(CT) -0	in (loc) .30 17-18 .42 17-18 .07 14	8 >696 8 >506	L/d 360 240 n/a	PLATES MT20 MT20HS Weight: 91 lb	<b>GRIP</b> 244/190 187/143 FT = 20%F, 11%E
BOT CHORD 21 14 WEBS 22 REACTIONS.	TOP CHORD       2x4 SP No.2(flat)       TOP CHORD       Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.         BOT CHORD       2x4 SP No.2(flat) *Except*       BOT CHORD       BOT CHORD       Rigid ceiling directly applied or 10-0 oc bracing.         WEBS       2x4 SP No.3(flat)       2x4 SP No.3(flat)       BOT CHORD       Rigid ceiling directly applied or 10-0 oc bracing.							
TOP CHORD BOT CHORD WEBS	Max. Comp./Max. Ten All forces 250 (lb) or 2-3=-2042/0, 3-4=-3400/0, 4-5=-3400/0, 5-6= 8-10=-3400/0, 10-11=-3400/0, 11-12=-2041// 21-22=0/1211, 19-21=0/2838, 18-19=0/3809 14-15=0/1210 2-22=-1519/0, 2-21=0/1081, 3-21=-1037/0, 3 12-14=-1516/0, 12-15=0/1082, 11-15=-1038/ 7-17=-285/0, 6-18=-285/0	-4057/0, 6-7=-4057/0, 7-8 ) 17-18=0/4057, 16-17=0/3 -19=0/717, 5-19=-522/0, 5	=-4057/0, 3809, 15-16=0/2838, 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.

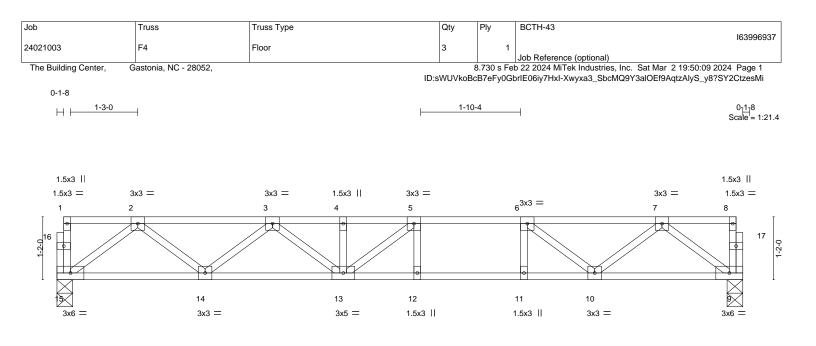
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.



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	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	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. (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)

Job	Truss	Truss Type		0	Qty	Ply	BCTH-43		
					,	,			163996938
24021003	F3	Floor Girder		1		1	lah Dafamana (antianal)		
The Building Center, G	astonia, NC - 28052,				8	3 730 s Fel	Job Reference (optional) b 22 2024 MiTek Industrie	es, Inc. Sat Mar 2 19:50:08	2024 Page 1
The Dunding Center,	5astorna, NO - 20032,			ID:sWU				XOVOBgjQcyHg_nOjjU0_r	
0-1-8									,
⊣			1-4-4						
									Scale = 1:27.0
1.5x3									
1.5x3 = 3x5 =	= 3x3 =	1.5x3	3x3 =	1.5x3	3x3 =	: 1.	5x3	4x5 =	1.5x3
1 2	3	4	5	6	7	8	9	10	11
		•	1	•					<u> </u>
						$\searrow$			1-2-0
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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 15-11-12			
TCDL 1 BCLL	psf) 10.0 0.0 0.0 5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrNOCode IRC2015/TPI2014	<b>CSI.</b> TC 0.71 BC 0.88 WB 0.56 Matrix-S	Vert(LL) -0.23	n (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	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER-           TOP CHORD         2x4 SP No.2(flat)           BOT CHORD         2x4 SP No.1(flat)           WEBS         2x4 SP 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=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

- 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



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						_							
Job	Truss	Truss Type		Qty	Ply	BCTH-43							
								163996939					
24021003	F2	Floor		5		1							
					0 700 5	Job Reference (option		50.07.0004 5.4					
The Building Center,						8.730 s Feb 22 2024 MiTek Industries, Inc. Sat Mar 2 19:50:07 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7HxI-bYqB9NyC4?6iwFwCezCB4llZLN0y_3drY83x7_zesMk							
				ID:SVVUVKO	всвленуос	BDLEOPIAL HXI-DADRAN	C4?6IWFWCezCB4IIZLN	Jy_3dry83x7_zesiNik					
0-1-8													
1-3-0			1-2-1	12				0-1-8					
H	-1							0-1-8 Scale = 1:26.2					
3	5x5 =	3x3 =	3x3 =	3x3	=	3x3 =	3x	5 =					
1 2	2	3 4	5	6 7		8 9	10	11					
20 1	$\sim$	H H		H /		H M	$\sim \gamma$						
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린 [] //													
						Å#	¥7						
· 🖂 –													
	18	17	16	15		14	13	12					
			10			14							
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	<b>CSI.</b> TC 0.51 BC 0.98 WB 0.44 Matrix-S	Vert(LL) -0.2	in (loc) l/defl L/d 22 14-15 >862 360 30 14-15 >623 240 36 12 n/a n/a	PLATES MT20 Weight: 83 lb	<b>GRIP</b> 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

 $2-19 = -1344/0, \ 2-18 = 0/921, \ 3-18 = -872/0, \ 3-17 = 0/538, \ 5-17 = -650/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 9-13 = -879/0, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 10-13 = 0/919, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 10-13 = 0/919, \ 10-12 = -1343/0, \ 10-13 = 0/919, \ 10-13 = 0/91$ WEBS 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.

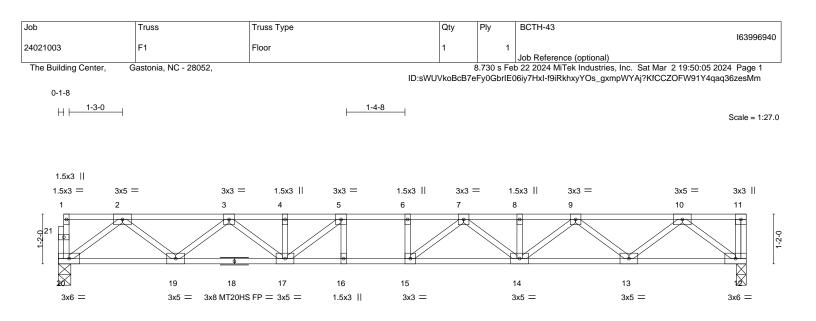
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

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 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)





		<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 2 14-15 >880 0 14-15 >636 5 12 n/a	L/d 360 240 n/a	PLATES MT20 MT20HS Weight: 84 lb	<b>GRIP</b> 244/190 187/143 FT = 20%F, 11%E		
LUMBER-       BRACING-         TOP CHORD       2x4 SP No.2(flat)         BOT CHORD       2x4 SP No.2(flat)         12-18:       2x4 SP No.1(flat)         WEBS       2x4 SP No.3(flat)         REACTIONS.       (size)       20=0-3-8, 12=0-2-12 Max Grav         Max Grav       20=867(LC 1), 12=873(LC 1)									
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) o -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.							

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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