

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24031279 BCTH-38

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: I64319485 thru I64319499

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

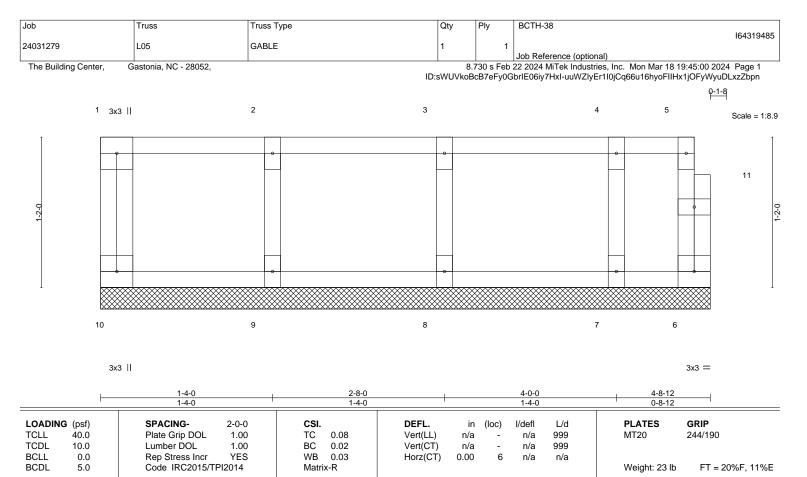
North Carolina COA: C-0844



March 20,2024

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.



LUMBER-

**BRACING-**

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WFBS

TOP CHORD Structural wood sheathing directly applied or 4-8-12 oc purlins,

except end verticals.

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

- 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

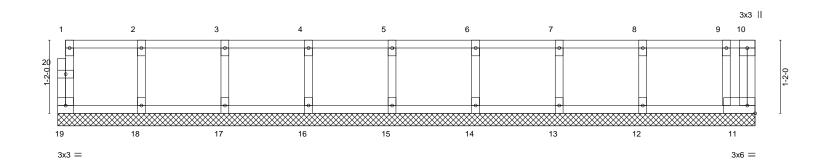


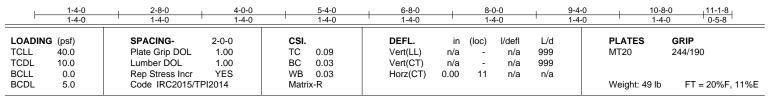
Job	Truss	Truss Type	Qty	Ply	BCTH-38	
					l64319486	
24031279	L04	GABLE	1	1		
					Inh Reference (ontional)	

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:44:59 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7HxI-QiyB4cEDG?usbgXvLKbSPbj8Stbe\_x\_oll8gpVzZbpo

0<sub>1</sub>1<sub>3</sub>8

Scale = 1:18.4





LUMBER-**BRACING-**

2x4 SP No.2(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.2(flat) **BOT CHORD** except end verticals

2x4 SP No.3(flat) **BOT CHORD** WFBS Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.3(flat)

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.

- 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.



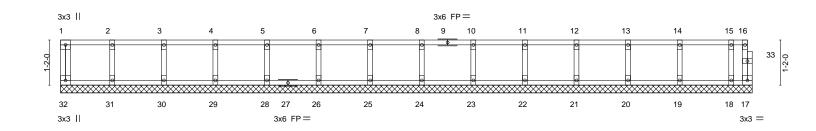


Job	Truss	Truss Type	Qty	Ply	BCTH-38	1
24031279	L03	GABLE	1	1	l64319487	
					lob Reference (entional)	

| Job Reference (optional) 8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:44:59 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7Hxl-QiyB4cEDG?usbgXvLKbSPbj8Ztbn\_x?oll8gpVzZbpo

0-1-8

Scale = 1:29.8



F	1-4-0	-	2-8-0	4-0-0	5-4-0	_	6-8-0	_	3-0-0	-	9-4-0	10-8-0		12-0-0		4-0	14-8-0	16-0-0	17-4-0 17-10-8
	1-4-0		1-4-0	1-4-0	1-4-0		1-4-0	1	1-4-0		1-4-0	1-4-0		1-4-0	1-4	4-0 '	1-4-0	1-4-0	1-4-0 '0-6-8'
LOADI	NG (psf)		SF	PACING-	2-0-0		c	CSI.			DI	EFL.	in	(loc)	I/defl	L/d		PLATES	GRIP
TCLL	40.0		Pla	ate Grip DOL	1.00		T	ГС	80.0		Ve	ert(LL)	n/a	-	n/a	999		MT20	244/190
TCDL	10.0		Lu	ımber DOL	1.00		E	3C	0.02		Ve	ert(CT)	n/a	-	n/a	999			
BCLL	0.0		Re	ep Stress Incr	YES		V	VΒ	0.03		H	orz(CT)	0.00	17	n/a	n/a			
BCDL	5.0		Co	ode IRC2015/	TPI2014		N	Matrix-	-R									Weight: 76 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**

2x4 SP No.2(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.2(flat) **BOT CHORD** except end verticals.

2x4 SP No.3(flat) **BOT CHORD** WFBS Rigid ceiling directly applied or 10-0-0 oc bracing. **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.

- 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.



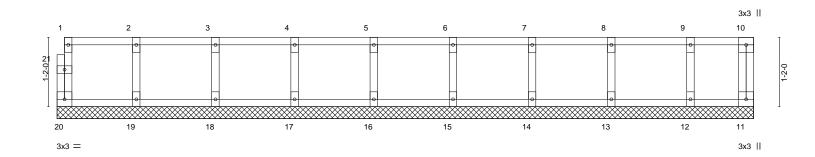


Job	Truss	Truss Type	Qty	Ply	BCTH-38	
					l64319488	3
24031279	L02	GABLE	1	1		
					Joh Reference (ontional)	

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:44:58 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-yVOptGDbVhm?zWzjnc4DtNAzqTFhFUlf3eP7H3zZbpp

0,1,8

Scale = 1:19.4



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

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

2x4 SP No.2(flat) **BOT CHORD** except end verticals.

2x4 SP No.3(flat) **BOT CHORD** WFBS Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.3(flat)

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.

- 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.





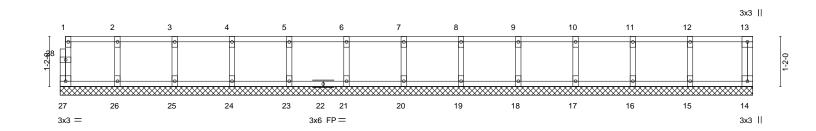
818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BCTH-38	٦
0.400.4070	1.04	OARI F			l64319489	)
24031279	L01	GABLE	1	1		
			I	I	Job Reference (optional)	

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:44:58 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-yVOptGDbVhm?zWzjnc4DtNAzrTFgFUlf3eP7H3zZbpp

0<sub>1</sub>1<sub>7</sub>8

Scale = 1:26.8



1-4-0	2-8-0   4-0-0   5-4-0 1-4-0   1-4-0   1-4-0	6-8-0   8-0-0 1-4-0   1-4-0		10-8-0 1-4-0	12-0-0 1-4-0	13-4-0 1-4-0	14-8-0 1-4-0	16-1-8 1-5-8
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 0.08 BC 0.01 WB 0.03 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 14	l/defl L/c n/a 999 n/a 999 n/a n/a	)	PLATES MT20 Weight: 68 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.2(flat) **BOT CHORD** except end verticals.

2x4 SP No.3(flat) BOT CHORD WFBS Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.3(flat)

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.

- 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.





818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply BCTH-38 164319490 24031279 F10 Floor Girder Job Reference (optional)

The Building Center,

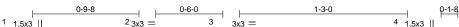
Gastonia, NC - 28052,

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:44:54 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-3k9I1uA4RSGaUvfyYm?HiX?DVsnsJev380Rv8HzZbpt

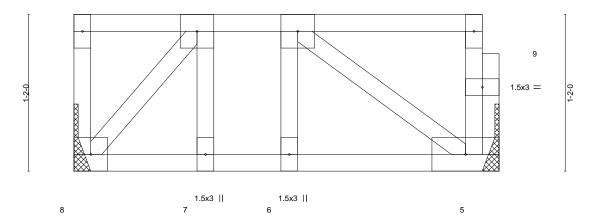
Structural wood sheathing directly applied or 3-2-0 oc purlins,

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

except end verticals.



Scale = 1:8.6



3x3 = 3x6 =

3-2-0

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.36	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.45	Vert(CT)	-0.02	5-6	>999	240		
BCLL	0.0	Rep Stress Incr NO	WB 0.15	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S	, ,					Weight: 20 lb	FT = 20%F, 11%E

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

WFBS 2x4 SP No.3(flat)

(size) 5=Mechanical, 8=Mechanical

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 **WEBS** 3-5=-526/0. 2-8=-653/0

### 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)



March 20,2024

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Job	Truss	Truss Type	Qty	Ply	BCTH-38
					I64319491
24031279	F9	Floor	1	1	
				l	Llob Reference (optional)

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:44:58 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-yVOptGDbVhm?zWzjnc4DtNAwlT84FQxf3eP7H3zZbpp

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

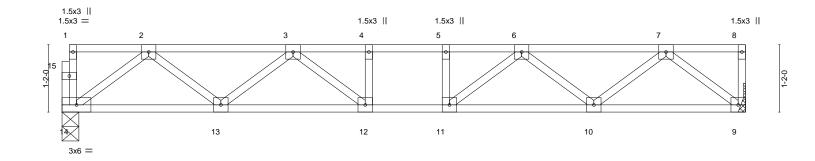
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.





Scale = 1:19.9



	11-10-0											
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	<b>CSI.</b> TC 0.28	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.07 12 >999 360	<b>PLATES GRIP</b> MT20 244/190								
TCDL 10.0	Lumber DOL 1.00	BC 0.50	Vert(CT) -0.09 12 >999 240	W1120 244/130								
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.28 Matrix-S	Horz(CT) 0.02 9 n/a n/a	Weight: 60 lb FT = 20%F, 11%E								

**BRACING-**

TOP CHORD

**BOT CHORD** 

11-10-0

LUMBER-

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

2x4 SP No.3(flat) WFBS

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

**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-

REACTIONS.

- 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.





818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BCTH-38
					l64319492
24031279	F8	Floor Girder	1	1	
					Llob Reference (optional)

The Building Center,

1-3-0

Gastonia, NC - 28052,

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:44:57 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-TJqRfwCzkNe8LMOXDvY\_KAdgn3jmWyAVq\_fZkczZbpq

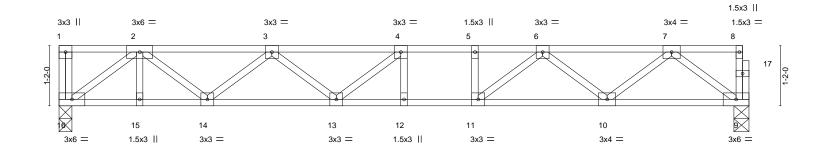
1-3-0

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

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

except end verticals.

Scale = 1:22.3



	13-4-8											
LOADING	(psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in (loc)	l/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/TPI20	014	Matrix	<-S	` ′				Weight: 70 lb	FT = 20%F, 11%E	

TOP CHORD

**BOT CHORD** 

13-4-8

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.1(flat) BOT CHORD

2x4 SP No.3(flat) WFBS

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)



March 20,2024



Job	Truss	Truss Type	Qty	Ply	BCTH-38
					I64319493
24031279	F7	Floor	2	1	
					Job Reference (optional)

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:44:57 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-TJqRfwCzkNe8LMOXDvY\_KAdhX3i0WvpVq\_fZkczZbpq

Structural wood sheathing directly applied or 5-8-1 oc purlins,

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

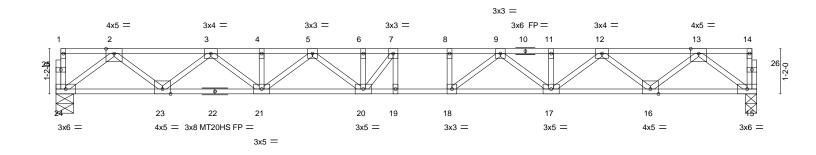
except end verticals.

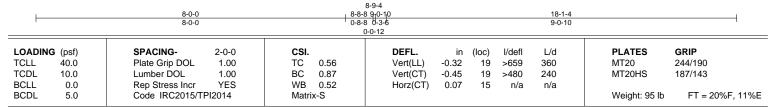
0-1-8





0-1-8 Scale = 1:29.8





TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) \*Except\* **BOT CHORD** 

15-22: 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 24=0-5-8, 15=0-3-8

Max Grav 24=976(LC 1), 15=976(LC 1)

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

2-3=-2073/0, 3-4=-3461/0, 4-5=-3461/0, 5-6=-4136/0, 6-7=-4136/0, 7-8=-4164/0, TOP CHORD

8-9=-4164/0, 9-11=-3460/0, 11-12=-3460/0, 12-13=-2073/0

BOT CHORD 23-24=0/1227, 21-23=0/2885, 20-21=0/3892, 19-20=0/4164, 18-19=0/4164, 17-18=0/3891, 16-17=0/2884, 15-16=0/1227

> 2-24=-1536/0, 2-23=0/1102, 3-23=-1057/0, 3-21=0/735, 5-21=-551/0, 5-20=0/372, 13-15=-1537/0, 13-16=0/1102, 12-16=-1055/0, 12-17=0/735, 9-17=-550/0, 9-18=-42/598,

7-20=-458/324

### NOTES-

WFBS

- 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.



March 20,2024

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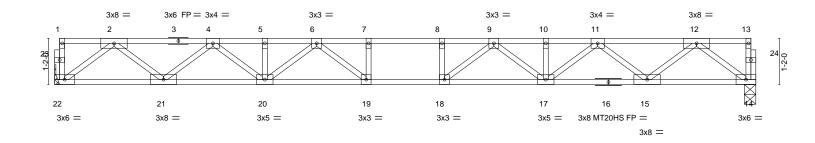


Job	Truss	Truss Type	Qty	Ply	BCTH-38	
	F0	_			l64319494	4
24031279	F6	Floor	6	1		
			l		Job Reference (optional)	

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:44:56 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-?7G3SaBKz4WHkCpKfB1loy5VqfNsnToMcKw0CAzZbpr

0-1-8 H — 1-3-0

1-8-12 0-1-8 Scale = 1:29.1



				17-8-12	
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 0.62	Vert(LL) -0.29 18-19 >713 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.80	Vert(CT) -0.40 18-19 >519 240	MT20HS 187/143
BCLL	0.0	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.07 14 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S	, ,	Weight: 90 lb FT = 20%F, 11%E

17-8-12

LUMBER-**BRACING-**

TOP CHORD TOP CHORD 2x4 SP No.2(flat) Structural wood sheathing directly applied or 5-8-14 oc purlins, BOT CHORD

2x4 SP No.1(flat) \*Except\* except end verticals.

14-16: 2x4 SP No.2(flat) BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 22=Mechanical, 14=0-3-8 Max Grav 22=955(LC 1), 14=955(LC 1)

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

2-4=-2021/0, 4-5=-3360/0, 5-6=-3360/0, 6-7=-3993/0, 7-8=-3993/0, 8-9=-3993/0, TOP CHORD

9-10=-3360/0, 10-11=-3360/0, 11-12=-2021/0

BOT CHORD 21-22=0/1200, 20-21=0/2809, 19-20=0/3760, 18-19=0/3993, 17-18=0/3760, 15-17=0/2809, 14-15=0/1200

2-22=-1502/0, 2-21=0/1069, 4-21=-1025/0, 4-20=0/704, 12-14=-1502/0, 12-15=0/1070,

 $11 - 15 = -1025/0, \ 11 - 17 = 0/704, \ 9 - 17 = -511/0, \ 9 - 18 = -83/610, \ 6 - 20 = -511/0, \ 6 - 19 = -83/610, \ 6 - 20 = -511/0, \ 6 - 19 = -83/610, \ 6 - 20 = -511/0, \ 6 - 19 = -83/610, \ 6 - 20 = -511/0, \ 6 - 19 = -83/610, \ 6 - 20 = -511/0, \ 6 - 19 = -83/610, \ 6 - 20 = -511/0, \ 6 - 19 = -83/610, \ 6 - 20 = -511/0, \ 6 - 19 = -83/610, \ 6 - 20 = -511/0, \ 6 - 19 = -83/610, \ 6 - 20 = -511/0, \ 6 - 10 = -83/610, \ 6 - 20 = -511/0, \ 6 - 10 = -83/610, \ 6 - 20 = -511/0, \ 7 - 20/0,$ 

7-19=-270/0, 8-18=-270/0

### NOTES-

WFBS

- 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.



March 20,2024

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Job	Truss	Truss Type	Qty	Ply	BCTH-38
24031279	F5	Floor	1	1	l64319495
					Joh Peference (entional)

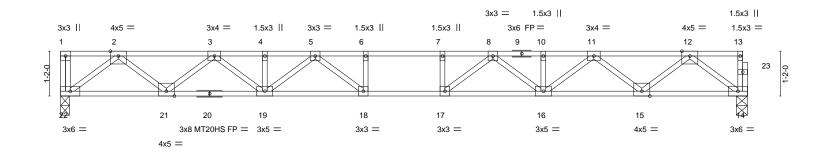
1-3-0

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:44:56 2024 Page 1

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1-10-8

Scale = 1:30.0



			17-10-8	
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 0.68	Vert(LL) -0.30 17-18 >696 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.83	Vert(CT) -0.42 17-18 >506 240	MT20HS 187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.52	Horz(CT) 0.07 14 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 91 lb FT = 20%F, 11%E

17-10-8

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2(flat) TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, **BOT CHORD** 

2x4 SP No.2(flat) \*Except\* 14-20: 2x4 SP No.1(flat) except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2x4 SP No.3(flat)

(size) 22=0-2-12, 14=0-3-8 Max Grav 22=969(LC 1), 14=963(LC 1)

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

2-3=-2042/0, 3-4=-3400/0, 4-5=-3400/0, 5-6=-4057/0, 6-7=-4057/0, 7-8=-4057/0, TOP CHORD

8-10=-3400/0, 10-11=-3400/0, 11-12=-2041/0

BOT CHORD 21-22=0/1211, 19-21=0/2838, 18-19=0/3809, 17-18=0/4057, 16-17=0/3809, 15-16=0/2838,

14-15=0/1210

WFBS 2-22=-1519/0, 2-21=0/1081, 3-21=-1037/0, 3-19=0/717, 5-19=-522/0, 5-18=-73/638,

 $12\text{-}14\text{=-}1516/0,\ 12\text{-}15\text{=-}0/1082,\ 11\text{-}15\text{=-}1038/0,\ 11\text{-}16\text{=-}0/717,\ 8\text{-}16\text{=-}522/0,\ 8\text{-}17\text{=-}73/638,\ 12\text{-}14\text{=-}1516/0,\ 12\text{-}15\text{=-}0/1082,\ 11\text{-}15\text{=-}1038/0,\ 11\text{-}16\text{=-}0/717,\ 8\text{-}16\text{=-}522/0,\ 8\text{-}17\text{=-}73/638,\ 12\text{-}14\text{=-}1516/0,\ 12\text{-}15\text{=-}0/1082,\ 11\text{-}15\text{=-}1038/0,\ 11\text{-}16\text{=-}0/717,\ 8\text{-}16\text{=-}522/0,\ 8\text{-}17\text{=-}73/638,\ 12\text{-}14\text{=-}1516/0,\ 12\text{-}15\text{=-}1038/0,\ 11\text{-}16\text{=-}0/717,\ 8\text{-}16\text{=-}522/0,\ 8\text{-}17\text{=-}73/638,\ 12\text{-}14\text{=-}1516/0,\ 12\text{-}14\text{=-}1516/0,\ 12\text{-}14\text{=-}1516/0,\ 12\text{-}14\text{=-}1516/0,\ 12\text{-}14\text{=-}1516/0,\ 12\text{-}14\text{=-}1516/0,\ 12\text{-}14\text{=-}1616/0,\ 12\text{-}14\text{=-}1$ 

7-17=-285/0, 6-18=-285/0

### NOTES-

REACTIONS.

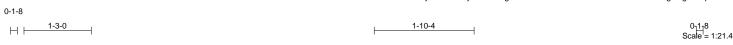
- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 22.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each 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.

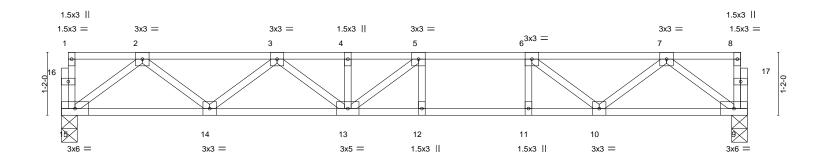




Job	Truss	Truss Type	Qty	Ply	BCTH-38
					I64319496
24031279	F4	Floor	3	1	
					Job Reference (optional)

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<u> </u>			12-8-12 12-8-12	<del></del>
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 0.63	Vert(LL) -0.15 12-13 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.82	Vert(CT) -0.20 12-13 >764 240	
BCLL 0.0	Rep Stress Incr YES	WB 0.32	Horz(CT) 0.03 9 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 65 lb FT = 20%F, 11%E

LUMBER-**BRACING-**

2x4 SP No.2(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD

2x4 SP No.1(flat) except end verticals.

2x4 SP No.3(flat) **BOT CHORD WEBS** Rigid ceiling directly applied or 10-0-0 oc bracing.

Max Grav 15=680(LC 1), 9=680(LC 1)

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

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 **WEBS** 

### NOTES-

REACTIONS.

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

(size) 15=0-3-8, 9=0-3-8

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.





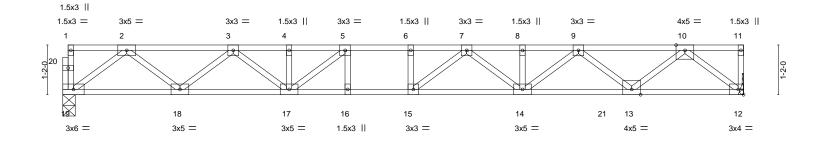
Job	Truss	Truss Type	Qty	Ply	BCTH-38	
24031279	F3	Floor Girder	1	1	l6431949	7
					Inh Reference (antional)	

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:44:55 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-XwigEEBiCmOQ62E86UWWFIYIoG1S2?pDNgASgkzZbps





Scale = 1:27.0



			15-11-12	
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 0.71	Vert(LL) -0.23 14-15 >818 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.88	Vert(CT) -0.32 14-15 >591 240	
BCLL 0.0	Rep Stress Incr NO	WB 0.56	Horz(CT) 0.06 12 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 82 lb FT = 20%F, 11%E

15-11-12

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.1(flat) BOT CHORD except end verticals.

2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WFBS

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

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

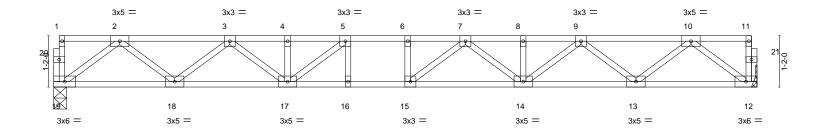




Job	Truss	Truss Type	Qty	Ply	BCTH-38
					l64319498
24031279	F2	Floor	5	1	
					Job Reference (optional)

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:44:54 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-3k9I1uA4RSGaUvfyYm?HiX?B9sfhJaP380Rv8HzZbpt





			15-11-12	
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 0.51	Vert(LL) -0.22 14-15 >862 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.98	Vert(CT) -0.30 14-15 >623 240	
BCLL 0.0	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.06 12 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	, ,	Weight: 83 lb FT = 20%F, 11%E

15-11-12

LUMBER-**BRACING-**

2x4 SP No.2(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.2(flat) BOT CHORD

except end verticals. BOT CHORD

2x4 SP No.3(flat) WFBS Rigid ceiling directly applied or 2-2-0 oc bracing.

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=-1779/0 **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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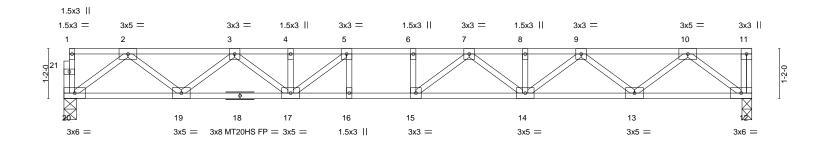


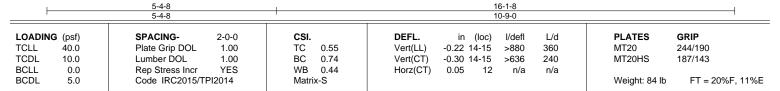
Job	Truss	Truss Type	Qty	Ply	BCTH-38
					l64319499
24031279	F1	Floor	1	1	l
					Llob Reference (optional)

8.730 s Feb 22 2024 MiTek Industries, Inc. Mon Mar 18 19:44:54 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7Hxl-3k9l1uA4RSGaUvfyYm?HiX?AWsjSJaJ380Rv8HzZbpt



Scale = 1:27.0





LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

2x4 SP No.2(flat) \*Except\* **BOT CHORD** except end verticals

12-18: 2x4 SP No.1(flat) BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 20=0-3-8, 12=0-2-12 Max Grav 20=867(LC 1), 12=873(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1802/0, 3-4=-2910/0, 4-5=-2910/0, 5-6=-3282/0, 6-7=-3282/0, 7-8=-2926/0, TOP CHORD

8-9=-2926/0. 9-10=-1799/0 BOT CHORD 19-20=0/1084, 17-19=0/2481, 16-17=0/3282, 15-16=0/3282, 14-15=0/3214, 13-14=0/2484,

12-13=0/1084 2-20=-1358/0, 2-19=0/934, 3-19=-884/0, 3-17=0/548, 10-12=-1360/0, 10-13=0/931. WFBS

9-13=-892/0, 9-14=0/564, 7-14=-367/0, 7-15=-181/396, 5-17=-685/0

### 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) 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.





### Symbols

## PLATE LOCATION AND ORIENTATION



offsets are indicated and fully embed teeth Center plate on joint unless x, y Apply plates to both sides of truss Dimensions are in ft-in-sixteenths



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

₹

connector plates. required direction of slots in This symbol indicates the

\* Plate location details available in MiTek software or upon request

### PLATE SIZE

to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. ndicated by symbol shown and/or

### **BEARING**



Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### ANSI/TPI1: Industry Standards: National Design Specification for Metal

DSB-22:

Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

## Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

## Design General Notes

truss unless otherwise shown Trusses are designed for wind loads in the plane of the

established by others section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

# General Safety Notes

### Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

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- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.