

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24010082 BCTH-50

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: I62945063 thru I62945077

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.

Job	Truss	Truss Type	Qty	Ply	BCTH-50	٦
					162945063	3
24010082	F3	Floor Girder	1	1	lab Dafassas (astisas)	
		I	I	1	Job Reference (optional)	

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 13:57:19 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7Hxl-rsYVntYXouMyZoYyYq2LKMa1yMfXgYPGFOXC02zx3hU

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

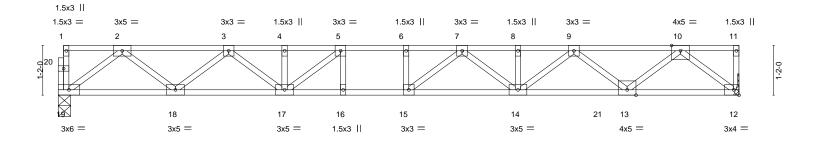
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



1-4-4

Scale = 1:27.0



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0 TCDL 10.0	Plate Grip DOL 1.00 Lumber DOL 1.00	TC 0.71 BC 0.88	Vert(LL) -0.23 14-15 >818 360 Vert(CT) -0.32 14-15 >591 240	MT20 244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr NO Code IRC2015/TPI2014	WB 0.56 Matrix-S	Horz(CT) 0.06 12 n/a n/a	Weight: 82 lb FT = 20%F, 11%E

TOP CHORD

**BOT CHORD** 

LUMBER-BRACING-

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

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-

REACTIONS.

- 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-50
24010082	E4	Floor	2	1	162945064
24010062	F <del>4</del>	Floor	3	'	Job Reference (optional)

The Building Center, Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 13:57:20 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-J26t\_DZAZCUpAx796XZatZ6Exl0mP2LQU2GIYUzx3hT

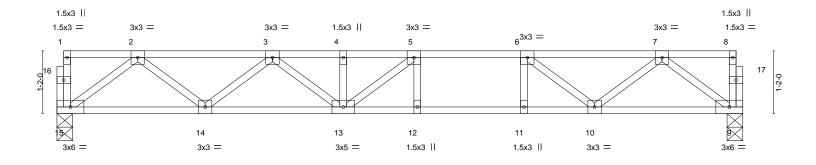
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.







		<del></del>			
LOADIN	IG (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

**BOT CHORD** 

LUMBER-BRACING-TOP CHORD

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

REACTIONS.

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

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

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



January 10,2024



818 Soundside Road Edenton, NC 27932

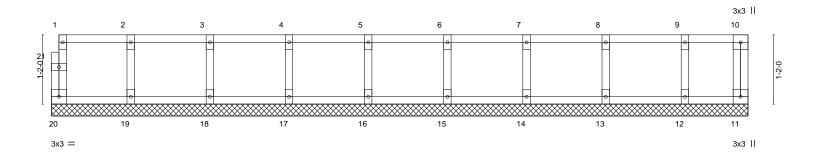
Job	Truss	Truss Type	Qty	Ply	BCTH-50
					162945065
24010082	L02	GABLE	1	1	
					Job Reference (optional)

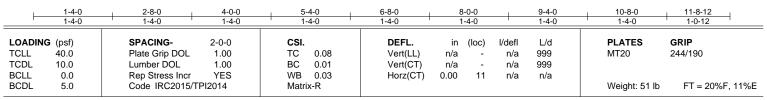
Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 13:57:27 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-cO1WSceZwLNpW09V0VBDf2vYkabxYlbS5eTdlazx3hM

0118

Scale = 1:19.4





LUMBER-BRACING-

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

**OTHERS** 2x4 SP No.3(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

**BOT CHORD** 

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.





Job	Truss	Truss Type	Qty	Ply	BCTH-50	
		_	_		li li	162945066
24010082	F2	Floor	5	1		
					Job Reference (optional)	

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 13:57:19 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-rsYVntYXouMyZoYyYq2LKMa53Md?gaFGFOXC02zx3hU

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

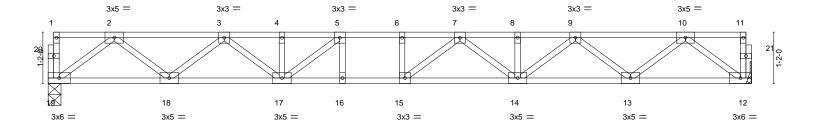
Rigid ceiling directly applied or 2-2-0 oc bracing.

except end verticals.



1-2-12

0-1-8 Scale = 1:26.2



		<u> </u>		
LOADING (psf)	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI. TC 0.51	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.22 14-15 >862 360	PLATES GRIP MT20 244/190
TCLL 40.0 TCDL 10.0	Lumber DOL 1.00	BC 0.98	Vert(CT) -0.30 14-15 >623 240	W120 244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.44 Matrix-S	Horz(CT) 0.06 12 n/a n/a	Weight: 83 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD

2x4 SP No.2(flat) 2x4 SP No.2(flat)

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

REACTIONS. 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 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=-1344/0, 10-13=0/919, 10-13=-879/0, 10-13=0/919,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.



January 10,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	BCTH-50
24010082	F1	Floor	1	1	162945067
24010002		1 1001	'		Job Reference (optional)

The Building Center, Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 13:57:17 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7Hxl-vTRkMBXHGH6EJUOaQP0tFxUkwY0JCgf\_o425x9zx3hW

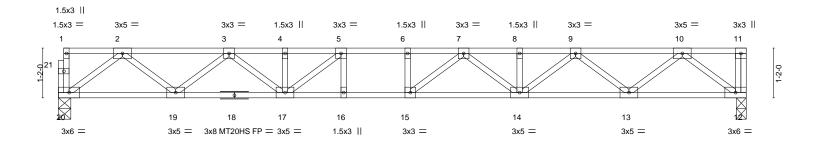
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



1-4-8 Scale = 1:27.0



	5-4-8 5-4-8	+	16-1-8 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	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.22 14-15         >880         360           Vert(CT)         -0.30 14-15         >636         240           Horz(CT)         0.05         12         n/a         n/a	PLATES GRIP MT20 244/190 MT20HS 187/143 Weight: 84 lb FT = 20%F, 11%E				

TOP CHORD

**BOT CHORD** 

LUMBER-BRACING-

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

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 20=867(LC 1), 12=873(LC 1)

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

TOP CHORD 2-3=-1802/0, 3-4=-2910/0, 4-5=-2910/0, 5-6=-3282/0, 6-7=-3282/0, 7-8=-2926/0,

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.



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/TPII 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)



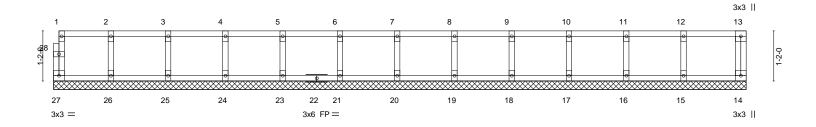
Jo	ob	Truss	Truss Type	Qty	Ply	BCTH-50	
24	4010082	L01	GABLE	1	1	162945068	
-	1010002		O/IDEE			Job Reference (optional)	

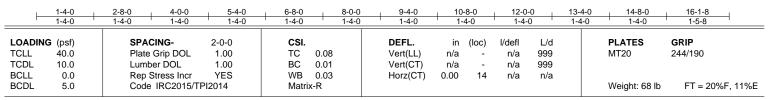
Gastonia, NC - 28052, The Building Center,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 13:57:26 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-8CT8FGew92FyusalSog\_6qMN?AFhprLls\_i4m8zx3hN

0118

Scale = 1:26.8





LUMBER-BRACING-

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**BOT CHORD** 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.





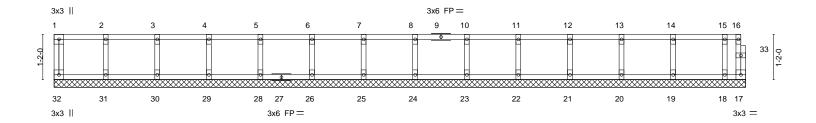
Job	Truss	Truss Type	Qty	Ply	BCTH-50	٦
					162945069	)
24010082	L03	GABLE	1	1		
					Job Reference (optional)	

Gastonia, NC - 28052, The Building Center,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 13:57:28 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-4bbugyfBhfVg8AkhaDiSBFSjT\_x1HlrbJlCAq1zx3hL

0-11-8

Scale = 1:29.8



1-4-0	2-8-0 4-0-0 5-4-0	6-8-0 8-0-0	9-4-0 10-8-0 12-0-0 13-4	
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-	
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 0.02 WB 0.03 Matrix-R	DEFL.         in (loc)         l/defl           Vert(LL)         n/a         -         n/a           Vert(CT)         n/a         -         n/a           Horz(CT)         0.00         17         n/a	L/d PLATES GRIP 999 MT20 244/190 999 n/a Weight: 76 lb FT = 20%F, 11%E

LUMBER-BRACING-

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

2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

**BOT CHORD** 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. (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.





Job Truss Truss Type Qty Ply BCTH-50 162945070 Floor 24010082 F5 Job Reference (optional) 8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 13:57:21 2024 Page 1

The Building Center,

1-3-0

Gastonia, NC - 28052,

ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-nFgFCYaoKVdgo5hLfF4pPnfOu9Li8SYZii0J5xzx3hS

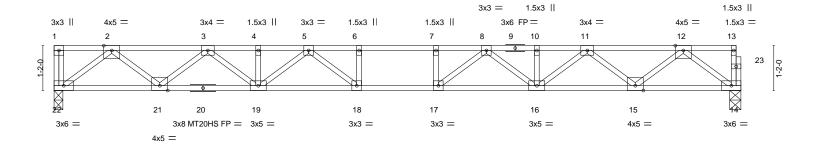
Structural wood sheathing directly applied or 5-6-6 oc purlins,

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

except end verticals.

1-10-8

Scale = 1:30.0



-	17-10-8 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							

TOP CHORD

**BOT CHORD** 

LUMBER-BRACING-

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

14-20: 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

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

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

BOT CHORD  $21-22=0/1211,\ 19-21=0/2838,\ 18-19=0/3809,\ 17-18=0/4057,\ 16-17=0/3809,\ 15-16=0/2838,\ 18-19=0/3809,\ 17-18=0/4057,\ 18-19=0/3809,\ 18-19=0/2838,\ 18-19=0/3809,\ 18-1$ 

14-15=0/1210

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

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

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

### 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) 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-50	٦
24040002	Te.	Floor	6	_	162945071	1
24010082	Fb	Floor	ь	1	Job Reference (optional)	

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 13:57:22 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7Hxl-FREdPuaQ5plXQFGXDyb2y\_CaTZiPtwujxMlsdNzx3hR

Structural wood sheathing directly applied or 5-8-14 oc purlins,

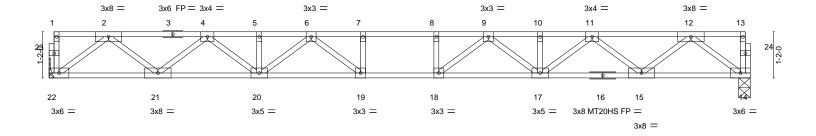
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8 H | 1-3-0

1-8-12

0-1-8 Scale = 1:29.1



	17-8-12 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								

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.1(flat) \*Except\* BOT CHORD

14-16: 2x4 SP No.2(flat)

WEBS 2x4 SP No.3(flat)

> (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.

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

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

**WEBS** 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,

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

### NOTES-

REACTIONS.

- 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.





Job	Truss	Truss Type	Qty	Ply	BCTH-50
		_			162945072
24010082	F7	Floor	2	1	11.5 ( )
					Job Reference (optional)

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 13:57:23 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-jdo?cEb2s7tO1Prkng6HUCkmBz1ZcMusA0VP9pzx3hQ

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

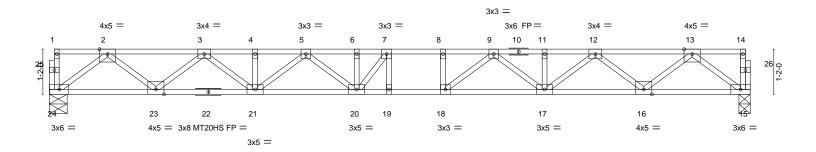
Rigid ceiling directly applied or 10-0-0 oc bracing.

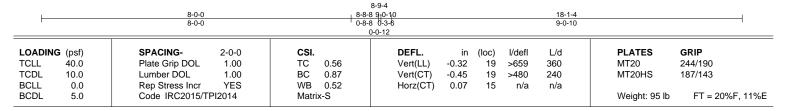
except end verticals.



0-8-8 1-3-4

0-1-8 Scale = 1:29.8





**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-2x4 SP No.2(flat) TOP CHORD

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

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

WEBS 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

WFBS 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,

### 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.





Job Truss Truss Type Qty BCTH-50 162945073 24010082 F8 Floor Girder Job Reference (optional)

The Building Center, Gastonia, NC - 28052,

1-3-0

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 13:57:24 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7HxI-BpMOqacgdQ?EfZQwLNeW1PHwBNOYLsV0PgEzhFzx3hP

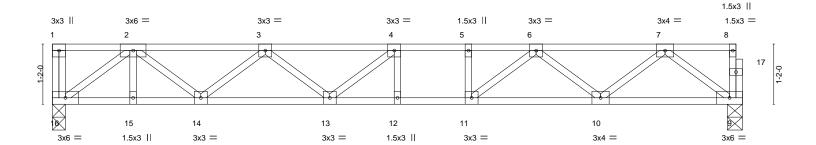
1-3-0 0118

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 13-4-8											
LOADING	G (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/TF	PI2014	Matri	x-S					Weight: 70 lb	FT = 20%F, 11%E	

**BOT CHORD** 

LUMBER-BRACING-TOP CHORD

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

2x4 SP No.3(flat) WEBS

> 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-

REACTIONS.

- 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)

Concentrated Loads (lb)

Vert: 9-16=-10, 1-8=-100 Vert: 2=-301(B)



January 10,2024



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

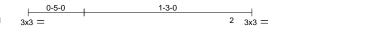
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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-50 162945074 24010082 F10 Floor Girder Job Reference (optional)

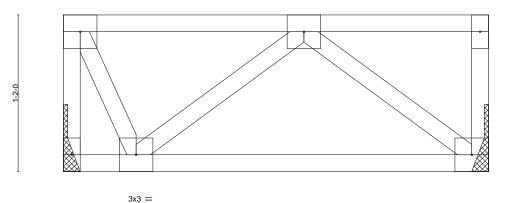
The Building Center, Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 13:57:18 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7Hxl-Ng\_6ZXXv1aE5xezm\_6X6n81?OyTwxB770kneUczx3hV



3 1.5x3 II Scale = 1:8.6

1-2-0



1.5x3 || 3x3 = 3-2-0

			3-2-0									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d		
TCLL	40.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	-0.00	5	>999	360		
TCDL	10.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	x-P	, ,						

Weight: 18 lb FT = 20%F, 11%E

GRIP

244/190

**PLATES** 

MT20

LUMBER-

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

2x4 SP No.3(flat)

BRACING-TOP CHORD

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

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 6=Mechanical, 4=Mechanical (size) 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 **BOT CHORD** 4-5=0/525

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

### 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).

5

6

### 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)



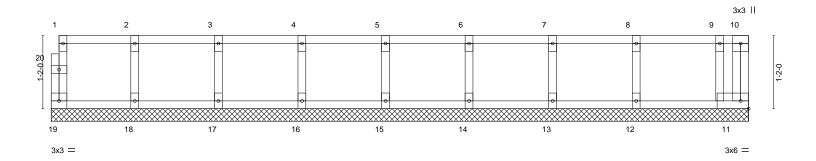
Job	Truss	Truss Type	Qty	Ply	BCTH-50	1
04040000	1.04	CARLE			I62945075	
24010082	L04	GABLE	1	1		
					Job Reference (optional)	

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 13:57:29 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7HxI-Yn9HtlgpSzdXlKJt7wDhkT\_u5OH70C4lYyykNTzx3hK

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

Scale = 1:18.4



1-4-0 1-4-0	2-8-0 1-4-0	4-0-0 1-4-0	5-4-0   6-8-0 1-4-0   1-4-0	8-0-0 1-4-0		10-8-0 1-4-0	11-1-8
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	Plate Grip DOL 1. Lumber DOL 1.	D-0 CSI. 00 TC 00 BC ES WB 4 Matrix	0.09 Vert(LL) 0.03 Vert(CT) 0.03 Horz(CT) x-R	in (loc) l, n/a - n/a - 0.00 11	/defl L/d n/a 999 n/a 999 n/a n/a		<b>GRIP</b> 244/190  FT = 20%F, 11%E

LUMBER-BRACING-

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

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

Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD except end verticals.

**BOT CHORD** 

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.





Job	Truss	Truss Type	Qty	Ply	BCTH-50
24010082	Fo	Floor	1	1	162945076
24010062	1.5	FIOOI	'	'	Job Reference (optional)

Gastonia, NC - 28052, The Building Center,

8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 13:57:25 2024 Page 1  $ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-g0vm1wdIOk75Hj?6u49ladq99mos4KH9dK\_WEizx3hO$ 

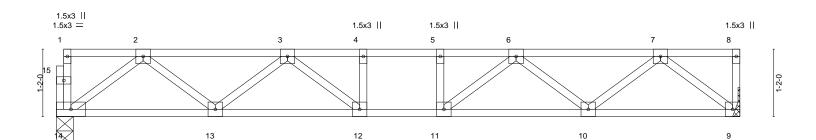
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

Scale = 1:19.9





	11-10-0 11-10-0											
LOADIN	NG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.07	12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.09	12	>999	240		
BCLL BCDL	0.0 5.0	Rep Stress Incr Code IRC2015/Ti	YES PI2014	WB Matri	0.28 <-S	Horz(CT)	0.02	9	n/a	n/a	Weight: 60 lb	FT = 20%F, 11%E

TOP CHORD

**BOT CHORD** 

LUMBER-BRACING-

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

3x6 =

WEBS 2x4 SP No.3(flat)

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1217/0, 3-4=-1769/0, 4-5=-1769/0, 5-6=-1769/0, 6-7=-1195/0 **BOT CHORD** 13-14=0/779, 12-13=0/1619, 11-12=0/1769, 10-11=0/1606, 9-10=0/750

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

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x3 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.





Job		Truss	Truss Ty	/ре		Qty	Ply	BCTH-	50			162945077
24010082		L05	GABLE			1	1					102945077
								Job Re	erence (optional)			
The Building Cer	nter, C	Sastonia, NC - 28052,			ID:s					s, Inc. Tue Jan 91 IONUt4helwGgX3x		
											0-1-	-8
	1 3x3		2		3				4	5	·	Scale = 1:8.9
Ī												Ţ
	-		-			•				•	•	
										-		11
-2-0											•	Q
1-5												1-2-0
			-			•				•		
	××××		******		***********	×××××	*****	******	***************************************		*****	1
						<b>*****</b>	<b>*****</b>	<b>****</b>				
	10		9		8				7	6		
	3x3										3x3 =	
		1-4-0		2-8-0				4-0-0		4-8-12		
		1-4-0		1-4-0				1-4-0		0-8-12		
LOADING (psf) TCLL 40.0 TCDL 10.0	)	SPACING- 2-0 Plate Grip DOL 1. Lumber DOL 1.		CSI. TC 0.08 BC 0.02	DEFL. Vert(LL) Vert(CT)	n/a		l/defl n/a n/a	L/d 999 999	PLATES MT20	<b>GRIP</b> 244/190	
BCLL 0.0 BCDL 5.0	)	Rep Stress Incr YE Code IRC2015/TPI201	ES	WB 0.03 Matrix-R	Horz(CT			n/a	n/a	Weight: 23 lb	FT =	20%F, 11%E

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

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

REACTIONS. All bearings 4-8-12.

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

 $\textbf{FORCES.} \quad \text{(Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.}$ 

### 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.



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

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

except end verticals.

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/TPII 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)



818 Soundside Road Edenton, NC 27932

### 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

© 2023 MiTek® All Rights Reserved

### MiTek



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

'n

- 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.

œ

Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- 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.