

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24010079 BCTH-47

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: I62921649 thru I62921663

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

North Carolina COA: C-0844



January 10,2024

Gilbert, Eric

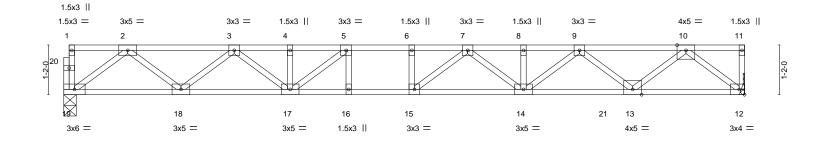
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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-47
					I62921649
24010079	F3	Floor Girder	1	1	
					Job Reference (optional)

8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 16:26:32 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-s0J7f61GhFQCUAaFuGeGU5Sum?6YDiblLgQYGUzxMbb



Scale = 1:27.0



	15-11-12 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 >818 480	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			

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

(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-

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

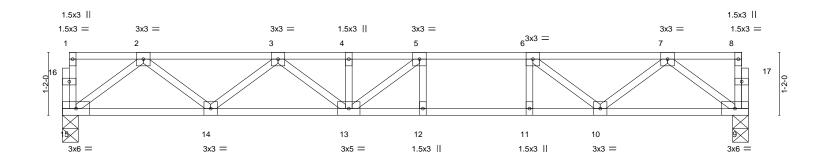




Job	Truss	Truss Type	Qty	Ply	BCTH-47
24010079	 F4	Floor	3	1	162921650
					Job Reference (optional)

8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 16:26:33 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-KCtWtS2uSZY36K9RSz9V1J?5IPTnyCXvZK95oxzxMba





				12-8-12	
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 0.63	Vert(LL) -0.15 12-13 >999 480	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

12-8-12

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.1(flat) BOT CHORD 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.



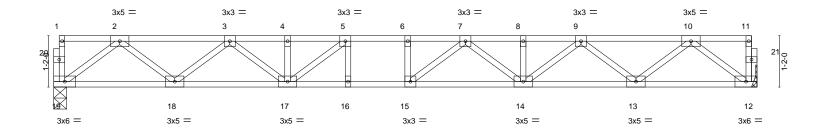


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BCTH-47
			_		l62921651
24010079	F2	Floor	5	1	Job Reference (optional)

8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 16:26:31 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-NqlISn0ewxILt0?3KY71xuvn7bknUHBc60g?j2zxMbc

0-1-8 H - 1-3-0 1-2-12 0₁1₋8 Scale = 1:26.2



	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 0.51	Vert(LL) -0.22 14-15 >862 480	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-**

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

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

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

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

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.





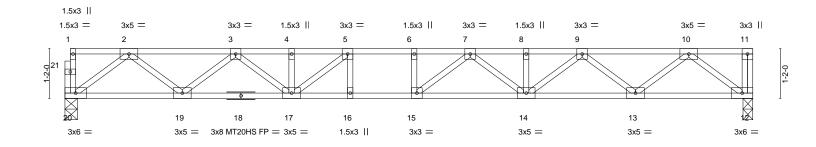
Job	Truss	Truss Type	Qty	Ply	BCTH-47
					162921652
24010079	F1	Floor	1	1	Job Reference (optional)

8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 16:26:30 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-vdBNER00AeAUFsQsmrcoPgNblBSJlqsStMxRBczxMbd





Scale = 1:27.0



	5-4-8	1	16-1-8					
	5-4-8		10-9-0					
TCLL 40.0 F TCDL 10.0 L BCLL 0.0 F	PACING- 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 >880 480 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				

LUMBER-**BRACING-**

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

except end verticals. BOT CHORD

12-18: 2x4 SP No.1(flat) 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

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

12-13=0/1084 WFBS

 $2\text{-}20\text{--}1358/0, \, 2\text{-}19\text{=-}0/934, \, 3\text{-}19\text{=-}884/0, \, 3\text{-}17\text{=-}0/548, \, 10\text{-}12\text{=-}1360/0, \, 10\text{-}13\text{=-}0/931, \, 3\text{-}10\text{-}12\text{=-}1360/0, \, 3\text{-}10\text$ 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.





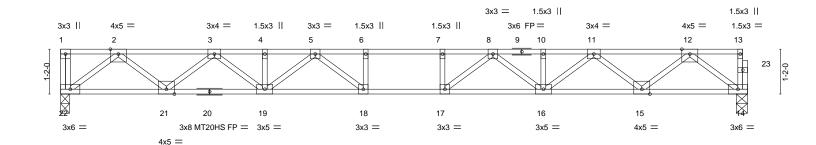
Job		Truss	Truss Type	Qty	Ply	BCTH-47
						162921653
240	010079	F5	Floor	1	1	Job Reference (optional)

1-3-0

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Scale = 1:30.0



	17-10-8				
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GR	IP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.68	Vert(LL) -0.30 17-18 >696 480 MT20 244	1/190
TCDL	10.0	Lumber DOL 1.00	BC 0.83	Vert(CT) -0.42 17-18 >506 240 MT20HS 187	7/143
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,

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

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

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

> 2-22=-1519/0, 2-21=0/1081, 3-21=-1037/0, 3-19=0/717, 5-19=-522/0, 5-18=-73/638, 12-14=-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-

WFBS

REACTIONS.

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

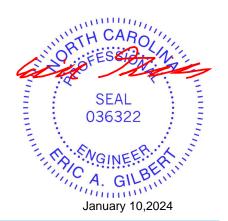
(size) 22=0-2-12, 14=0-3-8

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-47
	F0				162921654
24010079	F6	Floor	6	1	Job Reference (optional)

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

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

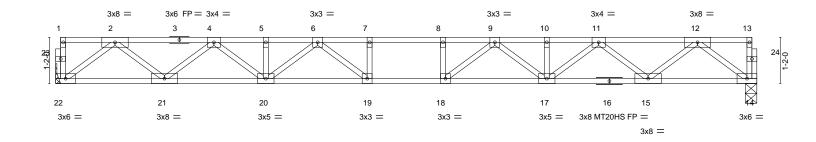
except end verticals.

0-1-8



1-8-12

0-1-8 Scale = 1:29.1



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 >713 480	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

17-8-12

LUMBER-

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

2x4 SP No.1(flat) *Except* 14-16: 2x4 SP No.2(flat)

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

WFBS 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-

- 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.





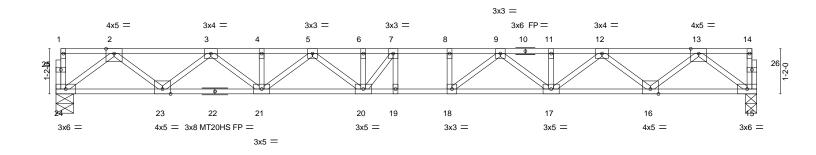
Job	Truss	Truss Type	Qty	Ply	BCTH-47
					162921655
24010079	F/	Floor	2	1	Job Reference (optional)

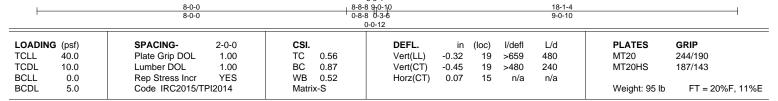
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0-1-8



0-1-8 Scale = 1:29.8





8-9-4

LUMBER-**BRACING-**

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

Structural wood sheathing directly applied or 5-8-1 oc purlins, 2x4 SP No.2(flat) *Except* **BOT CHORD** except end verticals. 15-22: 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) 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.



Job	Truss	Truss Type	Qty	Ply	BCTH-47
24010079	FR	Floor Girder	1	1	162921656
24010073	1.0	Tion Girder	'	'	Job Reference (optional)

The Building Center,

1-3-0

Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 16:26:37 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-Cz60iq5PWn2UbxSChpERB99m?0qZu?hUUy7JxizxMbW

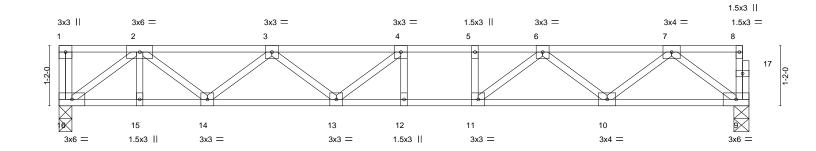
1-3-0

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										
LOADIN	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	480	MT20	244/190			
TCDL	10.0	Lumber DOL 1.00	BC 0.83	Vert(CT) -0.18	12-13 >864	240					
BCLL	0.0	Rep Stress Incr NO	WB 0.37	Horz(CT) 0.03	9 n/a	n/a					
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S	, ,			Weight: 70 lb	FT = 20%F, 11%E			

TOP CHORD

BOT CHORD

13-4-8

LUMBER-**BRACING-**

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

WFBS

2x4 SP No.3(flat)

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

Max Grav 16=989(LC 1), 9=749(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1799/0, 3-4=-2391/0, 4-5=-2418/0, 5-6=-2418/0, 6-7=-1491/0

BOT CHORD 15-16=0/1284, 14-15=0/1284, 13-14=0/2273, 12-13=0/2418, 11-12=0/2418, 10-11=0/2050, 9-10=0/926 **WEBS**

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

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) CAUTION, Do not erect truss backwards.
- 4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 381 lb down at 1-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

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



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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)



Job Truss Truss Type Qty Ply BCTH-47 162921657 24010079 F10 Floor Girder Job Reference (optional)

The Building Center,

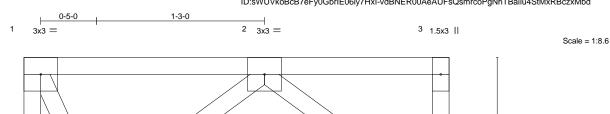
Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 16:26:30 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-vdBNER00AeAUFsQsmrcoPgNhTBailu4StMxRBczxMbd

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

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

except end verticals.



3x3 = 5

1.5x3 || 3x3 =

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	0.18	Vert(LL)	-0.00	5	>999	480	MT20	244/190
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/TP	12014	Matri	x-P						Weight: 18 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

2x4 SP No.3(flat) WFBS

(size) 6=Mechanical, 4=Mechanical

Max Grav 6=401(LC 1), 4=475(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-6=-404/0 **BOT CHORD** 4-5=0/525

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

NOTES-

- 1) Refer to girder(s) for truss to truss connections.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 541 lb down at 1-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 4-6=-10, 1-3=-100 Concentrated Loads (lb) Vert: 2=-541(F)





Job	Truss	Truss Type	Qty	Ply	BCTH-47
24010079	F9	Floor	1	1	162921658
					Job Reference (optional)

8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 16:26:38 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7Hxl-gAgOwA61H5ALC51PEWlgjMi0zQFtdTTejctsT8zxMbV

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

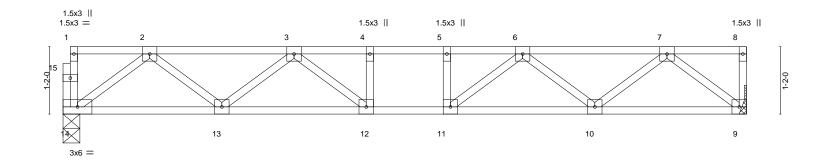
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



1-2-8

Scale = 1:19.9



11-10-0 11-10-0										
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. TC 0.28 BC 0.50 WB 0.28	Vert(CT) -0	in (loc) 0.07 12 0.09 12 0.02 9	l/defl L/d >999 480 >999 240 n/a n/a	PLATES MT20	GRIP 244/190			
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	11012(01)	0.02 9	11/4 11/4	Weight: 60 lb	FT = 20%F, 11%E			

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

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

2x4 SP No.3(flat)

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

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-

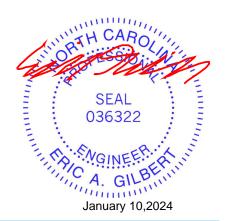
WFBS

REACTIONS.

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

Max Grav 14=634(LC 1), 9=641(LC 1)

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



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

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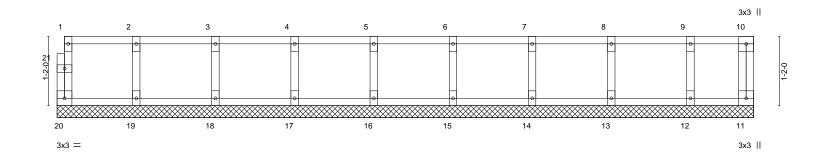


Job	Truss	Truss Type	Qty	Ply	BCTH-47	٦
					162921659)
24010079	L02	GABLE	1	1		
					Job Reference (optional)	

8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 16:26:39 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-8MEn7W7f2PICqFcboEGvGaFEopijM_XnyFcQ?azxMbU

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	GRIP 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.

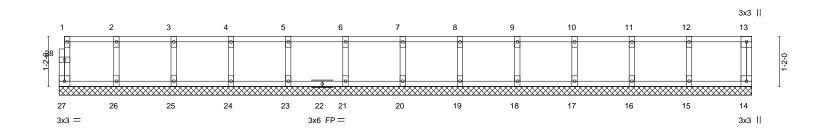


Job	Truss	Truss Type	Qty	Ply	BCTH-47	٦
0.404.0070	1.04	OARI F			162921660	ו
24010079	L01	GABLE	1	1		
			1	1	Job Reference (optional)	

8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 16:26:38 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-gAgOwA61H5ALC51PEWIgjMi33QMTdXHejctsT8zxMbV

0₁1₇8

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	GRIP 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.



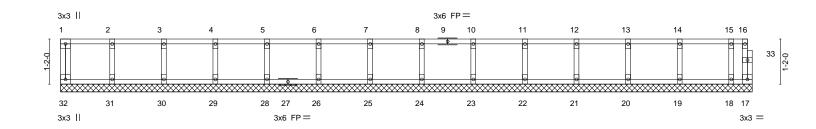


Job	Truss	Truss Type	Qty	Ply	BCTH-47
					l62921661
24010079	L03	GABLE	1	1	l
			l	I	Lob Reference (optional)

8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 16:26:40 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-dYo9Ls7HpiR3SPBnMxn8pnnPXD2p5RnxAvMzY1zxMbT

0-<u>1</u>_8

Scale = 1:29.8



1-4-0	2-8-0 4-0-0 5-4-0 1-4-0 1-4-0	6-8-0 8-0-0 1-4-0 1-4-0	9-4-0 10-8-0 1-4-0 1-4-0	12-0-0 1-4-0		14-8-0 1-4-0 1-4-0	17-4-0 17-10-8 1-4-0 0-6-8
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 0.02 WB 0.03 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) n/a - n/a - 0.00 17	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20 Weight: 76 lb	GRIP 244/190 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.





818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	BCTH-47
					162921662
24010079	L04	GABLE	1	1	l
					Llob Reference (optional)

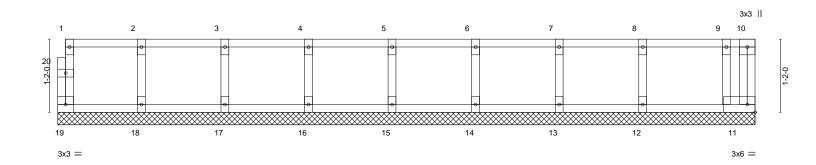
The Building Center,

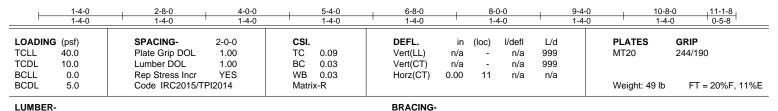
Gastonia, NC - 28052,

8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 16:26:41 2024 Page 1 ID:sWUVkoBcB7eFy0GbrIE06iy7HxI-5IMXYB8wa0Zw3Zm_weINL?KaAdOvqu04PZ5W4TzxMbS

0,1,8

Scale = 1:18.4





TOP CHORD

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

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

BRACING-

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 11-1-8.

(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-47 162921663 24010079 L05 GABLE Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.730 s Dec 14 2023 MiTek Industries, Inc. Mon Jan 8 16:26:42 2024 Page 1 ID:sWUVkoBcB7eFy0GbrlE06iy7Hxl-ZxvvmX9YLKhnhjLATMqcuCsl01klZLHDeDr4cvzxMbR 1 3x3 || 2 3 4 5 Scale = 1:8.9 10 9 8 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 SPACING-**PLATES** LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defl L/d GRIP **TCLL** 40.0 Plate Grip DOL 1.00 TC 0.08 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.00 вс 0.02 Vert(CT) n/a n/a 999 YES WB 0.03 **BCLL** 0.0 Rep Stress Incr Horz(CT) 0.00 6 n/a n/a

LUMBER-

BCDL

BRACING-

Matrix-R

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

5.0

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

except end verticals.

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

Code IRC2015/TPI2014

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.



FT = 20%F, 11%E

Weight: 23 lb

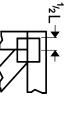
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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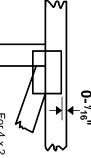


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

₹

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

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

PLATE SIZE

4 × 4

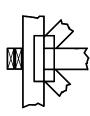
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



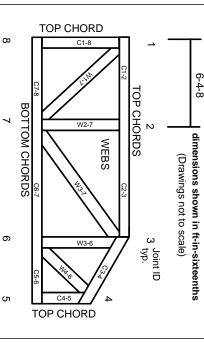
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

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

DSB-22:

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

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

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

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

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MITOK



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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 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.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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 specified.
- 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.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.