

RE: J0621-4049

Lot 11 Pendegraft Rd.

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0621-4049

Lot/Block: Model:
Address: Subdivision:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.3

Wind Code: N/A Wind Speed: N/A mph Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 14 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E15774719	ET-1	6/28/2021
2	E15774720	ET-2	6/28/2021
3	E15774721	ET-3	6/28/2021
4	E15774722	ET-4	6/28/2021
5	E15774723	ET-5	6/28/2021
6	E15774724	F01	6/28/2021
7	E15774725	F02	6/28/2021
8	E15774726	F03	6/28/2021
9	E15774727	F04	6/28/2021
10	E15774728	F07	6/28/2021
11	E15774729	F08	6/28/2021
12	E15774730	F09	6/28/2021
13	E15774731	F11	6/28/2021
14	E15774732	F12	6/28/2021

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2021

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



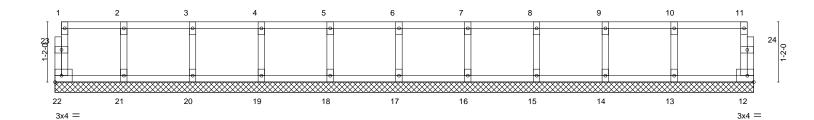
June 28, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 11 Pendegraft Rd.	٦
					E15774719	
J0621-4049	ET-1	Floor Supported Gable	1	1		
					Joh Reference (ontional)	

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:38:58 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNlzoaVc-tjIWRphlq6kTb3Q32kCsvk6Ua4MOe4kSZHVGGHzCg7x

0118

0₁1₇8 Scale = 1:22.3



13-6-8								
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.08 BC 0.01	Vert(LL) n/a -	defl L/d n/a 999 n/a 999	PLATES GRIP MT20 244/190			
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.03 Matrix-R	\	n/a n/a	Weight: 57 lb FT = 20%F, 11%E			

13-6-8

LUMBER-**BRACING-**

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

2x4 SP No.3(flat) WFBS **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 13-6-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) 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.



May 26,2021



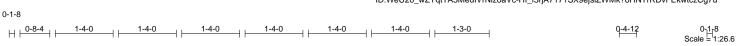
Job	Truss	Truss Type	Qty	Ply	Lot 11 Pendegraft Rd.
					E15774720
J0621-4049	ET-2	Floor	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:01 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-HI_f3rjA7171SX9ejsIZWMk?oHNTrRDvFEkwtczCg7u

12-9₁8

16-1-0



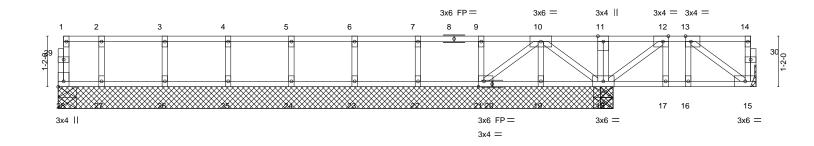


Plate Offsets (X,Y)	[12:0-1-8,Edge], [13:0-1-8,Edge], [21:0-	12-6-12 1-8,Edge], [28:Edge,0-1-8	3]				0-2-12	3-3	3-8
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.08 BC 0.05 WB 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.00	l/defl >999 >999 n/a	L/d 480 360 n/a		PLATES MT20	GRIP 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						Weight: 78 lb	FT = 20%F, 11%E

LUMBER-BRACING-TOP CHORD 2x4 SP No.1(flat)

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

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

12-6-12

REACTIONS. All bearings 12-9-8 except (jt=length) 28=0-5-0, 28=0-5-0, 15=Mechanical, 18=0-5-8, 18=0-5-8, 18=0-5-8. (lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 28, 15, 19, 21, 22, 23, 24, 25, 26, 27 except 18=307(LC 25), 18=301(LC 1), 18=301(LC 1)

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

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.
- 6) CAUTION, Do not erect truss backwards.





Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 11 Pendegraft Rd.
					E15774721
J0621-4049	ET-3	Floor Supported Gable	1	1	
					Joh Reference (ontional)

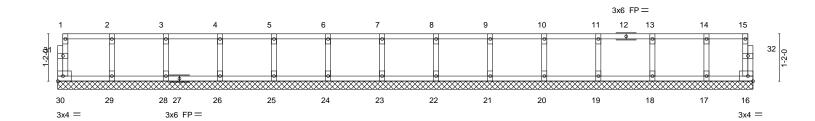
Comtech, Inc,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:02 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-IUY1HBkouLFu4hkrHaHo3ZGBzhjOatk2UuTUQ2zCg7t

0-1-8

Fayetteville, NC - 28314,

0-ე1_8 Scale = 1:28.4



	17-1-12 17-1-12									
LOADING TCLL TCDL BCLL	G (psf) 40.0 10.0 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.06 BC 0.01 WB 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 16	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL	5.0	Code IRC2015/TPI2014	Matrix-R	11012(01)	0.00	10	Π/a	11/4	Weight: 72 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**

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

REACTIONS. All bearings 17-1-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17

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) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) 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	Lot 11 Pendegraft Rd.
					E1577472
J0621-4049	ET-4	Floor Supported Gable	1	1	
					Job Reference (optional)

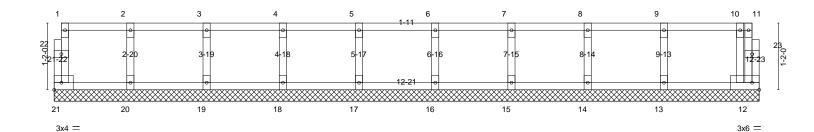
Comtech, Inc., Fayetteville, NC 28309, Mitek

0118

8.330 s Jan 15 2021 MiTek Industries, Inc. Wed May 26 10:40:42 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-VLBH0uyXKaz5yPW7eQZk49PGW?se06TmTShmxFzCg6J

0,1,8

Scale = 1:20.2



	12-4-0 12-4-0											
LOADING TCLL	(psf) 40.0		.00 .00	CSI.	0.07	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL 1	.00	BC	0.02	Vert(CT)	n/a	-	n/a	999	WITZO	244/100
BCLL	0.0	Rep Stress Incr	'ES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI20	14	Matrix	(-R						Weight: 54 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**

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

REACTIONS. All bearings 12-4-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 21, 12, 20, 19, 18, 17, 16, 15, 14, 13

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) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) 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 Lot 11 Pendegraft Rd. E15774723 J0621-4049 ET-5 Floor Supported Gable Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:03 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-Dh6PUXIQffNlirJ1rHo1bnpMk53bJK?CiYD1yUzCg7s 0-1-8 4 1.5x3 || 2 1.5x3 || 3 1.5x3 || Scale = 1:8.6 10 9 3x4 =3x4 =8 7 6 5 3x4 = 1.5x3 || 1.5x3 || 3x4 =3-8-8 Plate Offsets (X,Y)--[9:0-1-8,0-1-8], [10:0-1-8,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP** TCLL 40.0 Plate Grip DOL 1.00 TC 0.06 Vert(LL) n/a n/a 999 MT20 244/190 TCDL Lumber DOL 1.00 вс Vert(CT) 10.0 0.01 n/a n/a 999 WB 0.03 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 5 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

BCDL

2x4 SP No.1(flat) 2x4 SP No.1(flat)

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

5.0

OTHERS 2x4 SP No.3(flat)

REACTIONS. All bearings 3-8-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

Code IRC2015/TPI2014

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

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.

Matrix-R



Weight: 18 lb

Structural wood sheathing directly applied or 3-8-8 oc purlins,

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

except end verticals.

FT = 20%F, 11%E



Job	Truss	Truss Type	Qty	Ply	Lot 11 Pendegraft Rd.
					E15774724
J0621-4049	F01	Floor	4	1	
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:04 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-htfnitm3QyVcJ_uDP?JG8_MK7VGA2aYLxCyaUxzCg7r

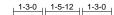
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

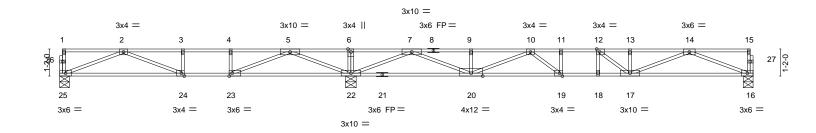
except end verticals.

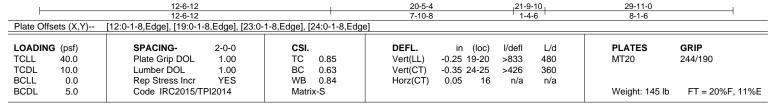
0-1-8





0-1-8 Scale = 1:49.7





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WFBS 2x4 SP No.3(flat)

(size) 25=0-5-0, 22=0-5-8, 16=0-5-0

Max Grav 25=597(LC 3), 22=1933(LC 1), 16=844(LC 7)

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

TOP CHORD 2-3=-1551/275, 3-4=-1551/275, 4-5=-1551/275, 5-6=0/2162, 6-7=0/2162, 7-9=-2242/0,

9-10=-2242/0, 10-11=-3119/0, 11-12=-3119/0, 12-13=-2849/0, 13-14=-2849/0

BOT CHORD 24-25=0/1196, 23-24=-275/1551, 22-23=-972/641, 20-22=-274/695, 19-20=0/3010,

18-19=0/3119. 17-18=0/3119. 16-17=0/1819

WFBS $6-22 = -304/0, \ 2-25 = -1280/0, \ 2-24 = -302/384, \ 5-22 = -1863/0, \ 5-23 = 0/1344, \ 4-23 = -402/0, \$

 $7\hbox{-}22\hbox{=-}2468/0,\, 7\hbox{-}20\hbox{=-}0/1772,\, 9\hbox{-}20\hbox{=-}267/0,\, 14\hbox{-}16\hbox{=-}1951/0,\, 14\hbox{-}17\hbox{=-}0/1111,\, 14\hbox{--}0/1111,\, 14\hbox{$

12-17=-516/154, 10-20=-942/0, 10-19=-62/516

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.





Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 11 Pendegraft Rd.
					E15774725
J0621-4049	F02	Floor	1	1	
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:05 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNlzoaVc-93DAvDmhAGdTx8SQyiqVhCuaDvYin4PUAsi80NzCg7q

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

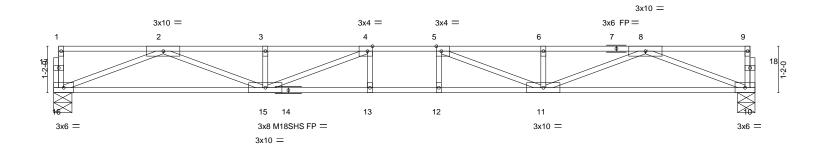
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8 2-6-0 $H \vdash$

1-7-4

0-1-8 Scale = 1:28.9



	17-7-4								
Plate Offsets (X,Y)	Plate Offsets (X,Y) [4:0-1-8,Edge], [5:0-1-8,Edge]								
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 0.57	Vert(LL) -0.30 12-13 >699 480	MT20 244/190					
TCDL 10.0	Lumber DOL 1.00	BC 0.87	Vert(CT) -0.41 12-13 >507 360	M18SHS 244/190					
BCLL 0.0	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.07 10 n/a n/a						
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 86 lb FT = 20%F, 11%E					

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 16=0-5-8, 10=0-5-4

Max Grav 16=948(LC 1), 10=948(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-3390/0, 3-4=-3390/0, 4-5=-3953/0, 5-6=-3390/0, 6-8=-3390/0 TOP CHORD **BOT CHORD** 15-16=0/2074, 13-15=0/3953, 12-13=0/3953, 11-12=0/3953, 10-11=0/2074

WEBS 2-16=-2224/0, 2-15=0/1421, 3-15=-299/0, 8-10=-2224/0, 8-11=0/1421, 6-11=-299/0,

5-11=-890/0. 4-15=-890/0

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) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.





Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 11 Pendegraft Rd.
					E15774726
J0621-4049	F03	Floor	8	1	
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:05 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNlzoaVc-93DAvDmhAGdTx8SQyiqVhCubCvaHn4uUAsi80NzCg7q

0-1-8 2-6-0 $H \vdash$

1-1-12

0-1-8 Scale = 1:28.1

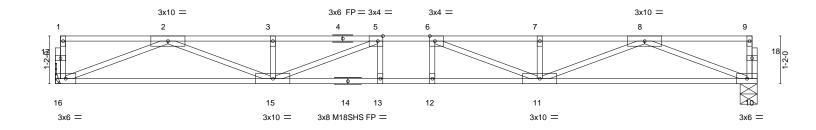


Plate Offsets (X,Y) [5:0-1-8,Edge], [6:0-1-8,Edge]								
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP				
TCLL 40.0	Plate Grip DOL 1.00	TC 0.51	Vert(LL) -0.27 12-13 >751 480	MT20 244/190				
TCDL 10.0	Lumber DOL 1.00	BC 0.76	Vert(CT) -0.37 12-13 >545 360	M18SHS 244/190				
BCLL 0.0	Rep Stress Incr YES	WB 0.65	Horz(CT) 0.06 10 n/a n/a					
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	, ,	Weight: 85 lb FT = 20%F, 11%E				

17-1-12

LUMBER-TOP CHORD

2x4 SP No 1(flat) 2x4 SP No.1(flat)

WFBS

BOT CHORD 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. (size) 16=Mechanical, 10=0-5-0

Max Grav 16=923(LC 1), 10=923(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3266/0, 3-5=-3266/0, 5-6=-3762/0, 6-7=-3266/0, 7-8=-3266/0 **BOT CHORD** 15-16=0/2010, 13-15=0/3762, 12-13=0/3762, 11-12=0/3762, 10-11=0/2010 **WEBS**

2-16=-2156/0, 2-15=0/1356, 3-15=-292/0, 8-10=-2156/0, 8-11=0/1356, 7-11=-292/0,

6-11=-788/0. 5-15=-788/0

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) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 11 Pendegraft Rd.
					E15774727
J0621-4049	F04	Floor	9	1	
					Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:06 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-eGnY6YnJxalKZI1cWQLkDPRobl_4Wb1eOWRhZpzCg7p

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

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

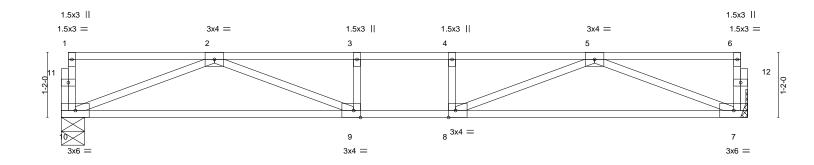
except end verticals.

0-1-8

2-6-0 H +

1-7-0

0₁1₈ Scale = 1:20.7



i .	12-4-0	1
	12-4-0	
Plate Offsets (X Y) [8:0-1-8 Edge] [9:0-1-8 Edge]		

_ Flate OII	SelS (A, I)				
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 0.34	Vert(LL) -0.13 9-10 >999 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.47	Vert(CT) -0.20 9-10 >716 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.02 7 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 60 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 10=0-5-0, 7=Mechanical

Max Grav 10=658(LC 1), 7=658(LC 1)

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

2-3=-1931/0, 3-4=-1931/0, 4-5=-1931/0 TOP CHORD 9-10=0/1351, 8-9=0/1931, 7-8=0/1351 **BOT CHORD**

WEBS 5-7=-1447/0, 2-10=-1447/0, 5-8=0/720, 2-9=0/720

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 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	Lot 11 Pendegraft Rd.	7
10004 4040	507		_		E15774728	
J0621-4049	F07	Floor	1	1		
					Job Reference (optional)	

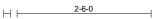
8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:07 2021 Page 1 ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-6SLwKuoxittBASco47szmd_ytiIRF2?ndABE5GzCg7o

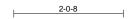
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

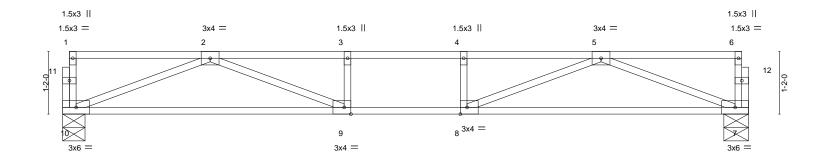
except end verticals.

0-1-8





0₇1₇8 Scale = 1:21.5



1	12-9-8	
Г	12-9-8	ı
te Of	fsets (X.Y) [8:0-1-8.Edge], [9:0-1-8.Edge]	

Plate Offsets (A, f)				
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 0.43	Vert(LL) -0.17 9-10 >899 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.53	Vert(CT) -0.24 9-10 >624 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.41	Horz(CT) 0.03 7 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 61 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. (size) 10=0-5-0, 7=0-5-8

Max Grav 10=684(LC 1), 7=684(LC 1)

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

TOP CHORD 2-3=-2062/0, 3-4=-2062/0, 4-5=-2062/0 9-10=0/1412, 8-9=0/2062, 7-8=0/1412 **BOT CHORD**

WEBS 5-7=-1512/0, 2-10=-1512/0, 5-8=0/805, 2-9=0/805

NOTES-

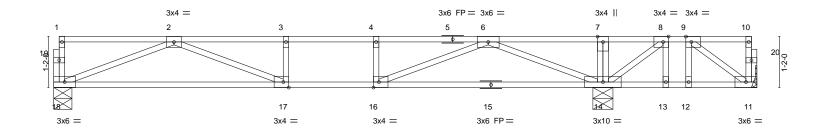
- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





Job	Truss	Truss Type	Qty	Ply	Lot 11 Pendegraft Rd.		
					E15	774729	
J0621-4049	F08	Floor	1	1			
					Job Reference (optional)		
Comtech, Inc, Fayettev	ville, NC - 28314,		8.	330 s Oct	7 2020 MiTek Industries, Inc. Wed May 26 09:39:08 2021 Page 14 2020 MiTek Industries, Inc. Wed May 26 09:39:08 2021 Page 14 2020 MiTek Industries, Inc. Wed May 26 09:39:08 2021 Page 14 2020 MiTek Industries, Inc. Wed May 26 09:39:08 2021 Page 14 2020 MiTek Industries, Inc. Wed May 26 09:39:08 2021 Page 14 2020 MiTek Industries, Inc. Wed May 26 09:39:08 2021 Page 14 2020 MiTek Industries, Inc. Wed May 26 09:39:08 2021 Page 14 2020 MiTek Industries, Inc. Wed May 26 09:39:08 2021 Page 14 2020 MiTek Industries, Inc. Wed May 26 09:39:08 2021 Page 14 2020 MiTek Industries Mitek Indus	ge 1	
		ID:We	eU20_wZY	'qtTA5Meι	ulVrNlzoaVc-aevIXEpZTB?2ocB_erOClqW8Z6fz_VxxsqwodizC	g7n	

0-1-8 0-4-12 2-6-0 1-11-4 1-3-0 1-3-0 0₁-8 Scale = 1:26.4 $H \vdash$



				12-0-	12					10-1-	
				12-6-	12					3-6-4	
Plate Offs	Plate Offsets (X,Y) [8:0-1-8,Edge], [9:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.15 17-18	>993	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.24 17-18	>625	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.02 14	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S					Weight: 81 lb	FT = 20%F, 11%E

BOT CHORD

12-6-12

LUMBER-**BRACING-**TOP CHORD

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

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 11=Mechanical, 18=0-5-0, 14=0-5-8

Max Uplift 11=-150(LC 3)

Max Grav 11=161(LC 7), 18=621(LC 10), 14=1133(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1696/0, 3-4=-1696/0, 4-6=-1696/0, 6-7=0/836, 7-8=0/829, 8-9=-126/289 TOP CHORD

BOT CHORD 17-18=0/1256, 16-17=0/1696, 14-16=0/866, 13-14=-289/126, 12-13=-289/126, 11-12=-289/126

2-18=-1345/0, 6-14=-1575/0, 2-17=0/495, 6-16=0/911, 4-16=-285/0, 8-14=-662/0,

9-11=-151/362

NOTES-

WFBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 11.
- 6) 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.
- 7) CAUTION, Do not erect truss backwards.



16-1-0

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

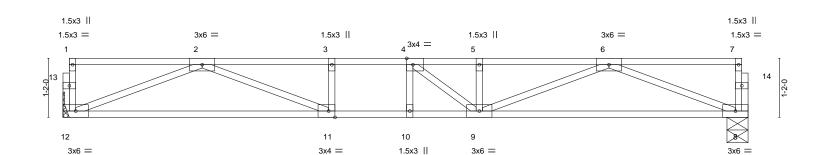
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.



Job	Truss	Truss Type	Qty	Ply	Lot 11 Pendegraft Rd.	
					E15774730	,
J0621-4049	F09	Floor	4	1		
					Job Reference (optional)	
Comtech, Inc, Fayettev	rille, NC - 28314,		8.	330 s Oct	7 2020 MiTek Industries, Inc. Wed May 26 09:39:10 2021 Page 1	
		ID IV. LI	~ ~ ~	TACES 13 /	NII V MAAA O E O INIEO OE V ITODEE IOD : O TI	

ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-W112ywqp?oFm2vLNIFQgOFcV_wJTSPFEJ8PviazCg7I 0-1-8 2-6-0 1-5-0 1-3-0 0_{1} 8 Scale = 1:22.8



-	6-9-4		8-2-0	3-6-8	
	6-9-4		1-4-12	 5-4-8	
Plate Offsets (X,Y)	[4:0-1-8,Edge], [11:0-1-8,Edge]				
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 0.31 BC 0.64 WB 0.45	DEFL. in (I Vert(LL) -0.13 9 Vert(CT) -0.17 11- Horz(CT) 0.03	 PLATES MT20	GRIP 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 67 lb	FT = 20%F, 11%E

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

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

 $H \vdash$

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 12=Mechanical, 8=0-5-0 Max Grav 12=725(LC 1), 8=725(LC 1)

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

2-3=-2287/0, 3-4=-2287/0, 4-5=-2269/0, 5-6=-2269/0 TOP CHORD **BOT CHORD** 11-12=0/1519, 10-11=0/2287, 9-10=0/2287, 8-9=0/1519

WEBS 6-8=-1628/0, 6-9=0/809, 5-9=-257/12, 2-12=-1628/0, 2-11=0/869, 4-9=-345/231

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.



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

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

except end verticals.





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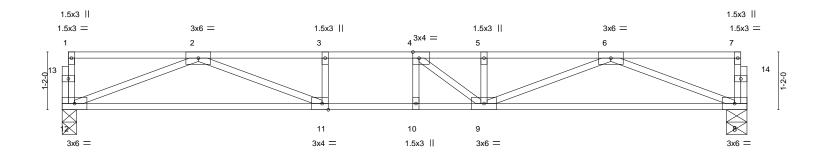
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



	Job	Truss	Truss Type	Qty	Ply	Lot 11 Pendegraft Rd.	
						E1577473	1
	J0621-4049	F11	Floor	4	1		
						Job Reference (optional)	
	Comtech, Inc, Fayetteville, NC - 28314,			8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 26 09:39:12 2021 Page 1			
			15 14/ 116	18 10 1100 - TV -T - TV - TV - TV - CO - TV -			

ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-SP8pNcs4XQVUHDVmtgS8Tgho2jziwIZWnSu?mTzCg7j





1	13-10-0	1
	13-10-0	
Plate Offsets (X Y) [4:0-1-8 Edge] [11:0-1-8 Edge]		

_ Flate OII	Flate Offsets (A, 1) [4.0-1-0, Edge]							
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 0.40	Vert(LL) -0.15 9-10 >999 480	MT20 244/190			
TCDL	10.0	Lumber DOL 1.00	BC 0.71	Vert(CT) -0.20 9-10 >827 360				
BCLL	0.0	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.03 8 n/a n/a				
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 68 lb FT = 20%F, 11%E			

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

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

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 12=0-3-8, 8=0-5-0

Max Grav 12=741(LC 1), 8=741(LC 1)

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

2-3=-2380/0, 3-4=-2380/0, 4-5=-2349/0, 5-6=-2349/0 TOP CHORD 11-12=0/1559, 10-11=0/2380, 9-10=0/2380, 8-9=0/1560 **BOT CHORD**

WEBS 6-8=-1672/0, 6-9=0/852, 5-9=-264/19, 2-12=-1670/0, 2-11=0/932, 3-11=-256/0,

4-9=-380/226

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.



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

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

except end verticals.





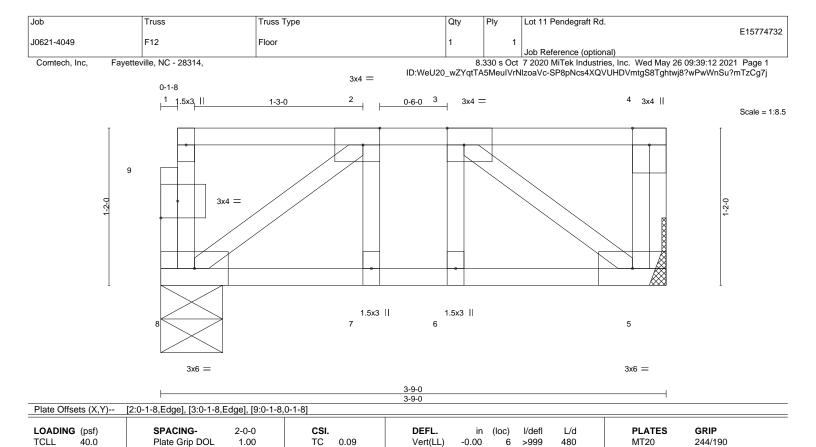
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Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.00

0.00

6 >999

5

n/a

except end verticals.

360

n/a

Structural wood sheathing directly applied or 3-9-0 oc purlins,

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

Weight: 24 lb

FT = 20%F, 11%E

LUMBER-

TCDL

BCLL

BCDL

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

WEBS 2x4 SP No.3(flat)

10.0

0.0

5.0

REACTIONS. (size) 8=0-5-8, 5=Mechanical

Max Grav 8=186(LC 1), 5=192(LC 1)

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

1.00

YES

вс

WB

Matrix-S

0.06

0.05

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

- 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.

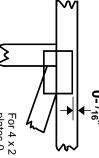


Symbols

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 20/20 software or upon request.

PLATE SIZE

4 × 4

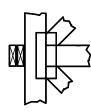
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



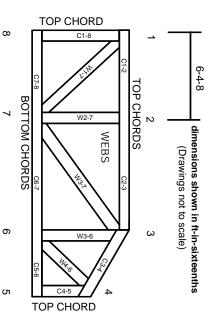
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

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

ANSI/TPI1: DSB-89:

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-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

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.

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Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

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- Cut members to bear tightly against each other
- 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.

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- 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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- 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 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.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.