

RE: J0621-3571

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0621-3571

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 8.4

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

This package includes 10 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E16476541	ET-1	12/9/2021
2	E16476542	ET-2	12/9/2021
3	E16476543	F1	12/9/2021
4	E16476544	F2	12/9/2021
5	E16476545	F3	12/9/2021
6	E16476546	F4	12/9/2021
7	E16476547	F5	12/9/2021
8	E16476548	F6	12/9/2021
9	E16476549	F7	12/9/2021
10	E16476550	F8	12/9/2021

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, 2022.

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.



December 09, 2021

Job	Truss	Truss Type	Qty	Ply	
J0621-3571	ET-1	Floor Supported Gable	1	1	E16476541
		The support sums			Job Reference (optional)

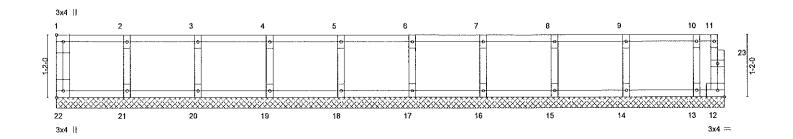
Comtech, Inc.

Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 15:58:02 2021 Page 1 ID:3ZkAT1H?TWmBdJQ8i8CHLxz8j5Y-t8RnA9cfoVE1UMIYHfPVrp4Uo7X_ajwYbkj0nCyB_JJ

0,1,8

Scale = 1:20.7



			12-6-4 12-6-4				- N.	
Plate Offsets (X,Y)	[1:Edge,0-1-8], [22:Edge,0-1-8]							
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.06 BC 0.02	DEFL. Vert(LL) Vert(CT)	in (toc) n/a - n/a -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0,03 Matrix-R	Horz(CT)	0.00 12	n/a	n/a	Weight: 55 lb	FT = 20%F, 11%E

LUMBER-

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

BRACING-

TOP CHORD

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

except end verticals.

BOT CHORD Rig

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

REACTIONS. All bearings 12-6-4.

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

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) 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.
- 7) CAUTION, Do not erect truss backwards.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 property incorporate liths design in 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, slorage, delivery, crection and bracing of trusses and truss systems, see

ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Sulte 203 Waldorf, MD 20601



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	540,735,40
J0621-3571	ET-2	Floor Supported Gable	1	1	E16476542
					Job Reference (optional)

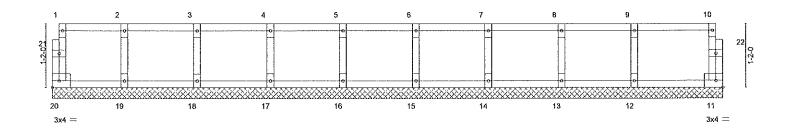
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 15:58:02 2021 Page 1 $ID: 3ZkAT1H?TWmBdJQ8l8CHLxz8j5Y-t8RnA9cfoVE1UMIYHfPVrp4TD7X?ajuYbkj0nCyB_2J$

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

0,1,8

Scale = 1:20.2



OADING (psf) CLL 40.0 CDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.10 BC 0.02	DEFL. in Vert(LL) n/a Vert(CT) n/a	-	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 244/190
CLL 0.0 CDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0,03 Matrix-R	Horz(CT) 0.00	11	n/a	n/a	Weight: 52 lb	FT = 20%F, 11%

BOT CHORD

BOT CHORD 2x4 SP No.1(flat)

2x4 SP No.3(flat) WEBS OTHERS

2x4 SP No.3(flat)

All bearings 12-3-8.

(ib) - Max Grav Ali reactions 250 lb or tess 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.

REACTIONS.

- 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) 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) Non Standard bearing condition. Review required.
- 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 rov. 5/19/2020 BEFORE USE, Design valled for use only with MiTek® connectors. This dosign 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 designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly designed to the overall building designer must verify the applicability of design parameters and properly design. Building designer and building designer and properly designer designer and parameters and properly designer designer. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	:
J0621-3571	F1	Floor	5	1	E16476543
					Job Reference (optional)

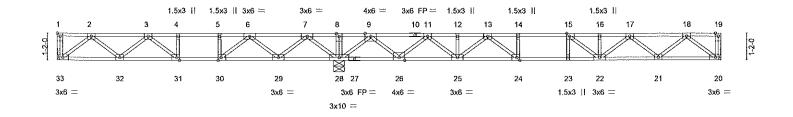
Comtech, inc.

Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 15:58:03 2021 Page 1 ID:3ZkAT1H?TWmBdJQ8I8CHLxz8j5Y-LL?9NVdIZpMu6WlirMwkN0cV?XiVJ2lhqOTaJeyB_2I

1-3-0 1-8-0 2-0-8

Scale: 1/4"=1"



1	12-3-8								11-8 -8-0		
Plate Offsets (X) [1:Edge,0-1-8], [15:0-1-8	3,Edge], [24:0-1	-8,Edge], [30	:0-1-8,Edge], [31:0-1-8,Edge]	***************************************					
LOADING (psf) TCLL 40.0	SPACING- Plate Grip DOL	2-0-0 1.00	CSI.	0.67	DEFL. Vert(LL)	in -0.17	(loc) 23	l/defl >999	L/d 480	PLATES MT20	GRIP 244/190
TCDL 10.0 BCLL 0.0	Lumber DOL Rep Stress Incr	1,00 YES	BC WB	0.77 0.57	Vert(CT)	-0.24 0.04	23 20	>844 n/a	360 n/a	,,,,,,	
BCDL 5.0	Code IRC2015/T	Pl2014	Matrix	-S	, ,					Weight: 146 lb	FT = 20%F, 11%E

LUMBER-

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

2x4 SP No.3(flat) WEBS

BRACING-

BOT CHORD

TOP CHORD

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

except end verticals.

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

REACTIONS.

33=Mechanical, 28=0-5-8, 20=Mechanical

Max Grav 33=581(LC 3), 28=1907(LC 1), 20=798(LC 4)

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

 $2\text{-}3\text{--}1076/4,\ 3\text{-}4\text{--}1407/357,\ 4\text{-}5\text{--}1407/357,\ 5\text{-}6\text{--}1407/357,\ 6\text{-}7\text{--}468/1047,}$ TOP CHORD

7-8=0/2174, 8-9=0/2174, 9-11=-404/345, 11-12=-1892/0, 12-13=-1892/0, 13-14=-2729/0,

14-15=-2729/0, 15-16=-2557/0, 16-17=-2557/0, 17-18=-1611/0

BOT CHORD 32-33=0/702, 31-32=-102/1393, 30-31=-357/1407, 29-30=-734/1024, 28-29=-1349/0,

 $26 - 28 = -906/0,\ 25 - 26 = -81/1263,\ 24 - 25 = 0/2367,\ 23 - 24 = 0/2729,\ 22 - 23 = 0/2729,$ 21-22=0/2204, 20-21=0/986

2-33=-881/0, 2-32=-31/487, 3-32=-412/127, 3-31=-404/18, 7-28=-1302/0, 7-29=0/871, 6-29=-902/0, 6-30=0/871, 5-30=-377/0, 9-28=-1622/0, 9-26=0/1197, 11-26=-1159/0,

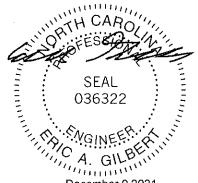
11-25=0/846, 13-25=-653/0, 13-24=0/744, 14-24=-328/0, 18-20=-1237/0, 18-21=0/814,

17-21=-772/0, 17-22=0/450, 15-22=-410/188

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 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.



December 9,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 lruss 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2870 Crain Highway, Suite 203 Waldorf, MD 20861



	-					
Job	Truss	Truss Type	Qty Ply L			
		7,6	E16476544			
J0621-3571	F2	Floor	3 1 1			
			Job Reference (optional)			
Comtech, Inc.	Fayetteville, NC - 28314,		8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 15:58:04 2021 Page 1			
	ID:3ZkAT1H?TWmBdJQ8i8CHLxz8j5Y-pXZXbrewK7UkkgSxP3RzwE9fNw3u2U?r32C7s4yB_2H					

0-1-8

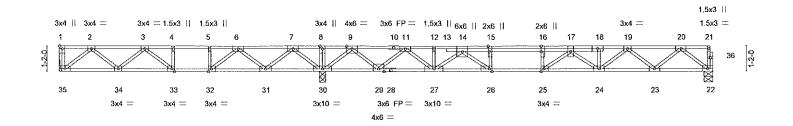
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

2-3-4

Scale = 1:51.2



12-2-8			30-4-4
12-2-8			18-1-12
Plate Offsets (X,Y)	[1:Edge,0-1-8], [15:0-3-0,Edge], [16:0-3	-0,0-0-0}, [25:0-1-8,Edge	je], [26:0-1-8,Edge], [32:0-1-8,Edge], [33:0-1-8,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 0.69 BC 0.69 WB 0.63	DEFL. in (loc) l/defl L/d PLATES GRIP
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	Weight: 162 lb FT = 20%F, 11%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

1-3-0

WEBS 2x4 SP No.3(flat)

(size) 35=Mechanical, 30=0-3-8, 22=0-5-0

1-7-0

Max Grav 35=566(LC 3), 30=2019(LC 1), 22=866(LC 4)

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

TOP CHORD 2-3=-1041/71, 3-4=-1329/509, 4-5=-1329/509, 5-6=-1329/509, 6-7=-374/1278,

7-8=0/2478, 8-9=0/2478, 9-11=-336/394, 11-12=-2036/0, 12-14=-2038/0, 14-15=-3389/0, 15-16=-3389/0, 16-17=-3389/0, 17-18=-2923/0, 18-19=-2918/0, 19-20=-1795/0

34-35=-17/683, 33-34=-204/1340, 32-33=-509/1329, 31-32=-932/938, 30-31=-1607/0,

BOT CHORD 29-30=-1074/0, 27-29=-102/1303, 26-27=0/2719, 25-26=0/3389, 24-25=0/3372,

23-24=0/2479, 22-23=0/1081

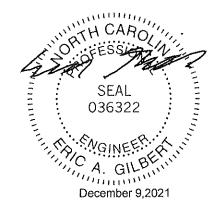
WEBS $2 - 35 = -857/21, \ 2 - 34 = -71/465, \ 3 - 34 = -389/173, \ 3 - 33 = -476/0, \ 7 - 30 = -1339/0, \ 7 - 31 = 0/905,$

6-31=-943/0, 6-32=0/922, 5-32=-395/0, 20-22=-1354/0, 20-23=0/929, 19-23=-890/0, 19-24=0/561, 9-30=-1763/0, 9-29=0/1333, 11-29=-1299/0, 11-27=0/980, 14-27=-875/0,

14-26=0/1127, 15-26=-601/0, 17-24=-566/0, 17-25=-387/365

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 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 walk at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

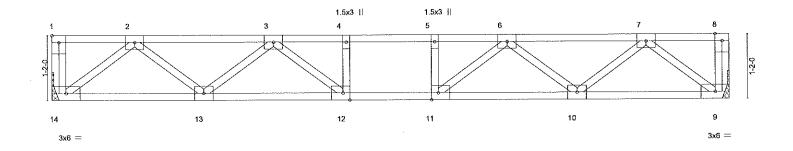




Qty Job Truss Truss Type Ply E16476545 J0621-3571 F3 Floor Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Dec 8 15:58:05 2021 Page 1 ID:3ZkAT1H?TWmBdJQ8I8CHLxz8j5Y-Ij7woBeY5QcbMp17ynzCSRix6KU?n0j_HiyhOXyB_2G Comtech, Inc. Fayetteville, NC - 28314,

1-5-12

Scale = 1:19.9



			12-2-12 12-2-12					
Plate Offsets (X,Y)	[1:Edge,0-1-8], [11:0-1-8,Edge], [12:0-1	-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 0.25 BC 0.38 WB 0.28	,	in (loc) -0.07 12-13 -0.09 12-13 0.02 9	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: 63 lb	FT = 20%F, 11%E

LUMBER-

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

1-3-0

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) 14=Mechanical, 9=Mechanical Max Grav 14=659(LC 1), 9=659(LC 1)

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

2-3=-1262/0, 3-4=-1866/0, 4-5=-1866/0, 5-6=-1866/0, 6-7=-1262/0 TOP CHORD BOT CHORD 13-14=0/804, 12-13=0/1686, 11-12=0/1866, 10-11=0/1686, 9-10=0/804

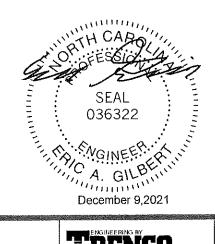
WEBS

2-14=-1008/0, 2-13=0/597, 3-13=-551/0, 3-12=0/417, 7-9=-1008/0, 7-10=0/597,

6-10=-551/0, 6-11=0/417

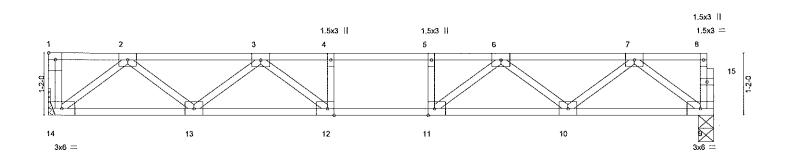
NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 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.



818 Soundside Road Edenlon, NC 27932

Job	Truss	Truss Type	Qty	Ply	L
					E16476546
J0621-3571	F4	Floor	5	1	
					Job Reference (optional)
Comtech, Inc, Fay	etteville, NC - 28314,		8.•	430 s Aug	16 2021 MiTek Industries, Inc. Wed Dec 8 15:58:06 2021 Page 1
			ID:3ZkAT1H?TWm8d	JQ8I8CHL	.xz8j5Y-mwgl0XfAskkSzzcKWUUR?fE5xkphWTo8WMhEwzyB_2F
1-3-0	\dashv		1-9-4		$\sigma_{[\frac{1}{2}]8}$



12-6-4							
12-6-4							
Plate Offsets (X,Y) [1:Edge,0-1-8], [11:0-1-8,Edge], [12:0-1-8,Edge]							
CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP					
TC 0.31	Vert(LL) -0.08 12-13 >999 480	MT20 244/190					
BC 0.42	Vert(CT) -0.11 12-13 >999 360						
WB 0.30	Horz(CT) 0.02 9 n/a n/a						
Matrix-S	` '	Weight: 63 lb FT = 20%F, 11%E					
)	CSI. TC 0.31 BC 0.42 WB 0.30	12-6-4					

LUMBER-

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

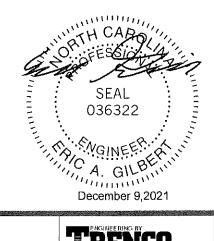
(size) 14=Mechanical, 9=0-3-8 Max Grav 14=675(LC 1), 9=669(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1302/0, 3-4=-1952/0, 4-5=-1952/0, 5-6=-1952/0, 6-7=-1302/0 BOT CHORD 13-14=0/825, 12-13=0/1744, 11-12=0/1952, 10-11=0/1744, 9-10=0/824 2-14=-1035/0, 2-13=0/621, 3-13=-575/0, 3-12=0/462, 7-9=-1032/0, 7-10=0/622, WEBS

6-10=-576/0, 6-11=0/462

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 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.



Scale = 1:20.8

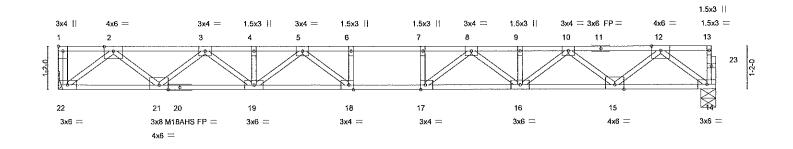
WARNING - Venify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rov. 5/19/2020 BEFORE USE. Design valid for use only with MITEMS connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designor 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Edenton, NC 27932

Job T	russ	Truss Type	Qty	Ply	L
J0621-3571 F	:5	Floor	2	1	E16476547
				<u> </u>	Job Reference (optional)
Comtech, Inc, Fayetteville	le, NC - 28314,		8.	430 s Au	16 2021 MiTek Industries, Inc. Wed Dec 8 15:58:06 2021 Page 1
		ID:3ZkAT	IH?TWmBd	JQ8I8CH	Lxz8j5Y-mwgl0XfAskkSzzcKWJUR?fE2mkjfWPO8WMhEwzyB_2F
1-3-0		1-10-0	l		o ₁₁₁ 8

Scale = 1:29.9



			17-10-0 17-10-0			
Plate Offsets (X,Y)	[1:Edge,0-1-8], [17:0-1-8,Edge], [18:0-1	-8,Edge]	17-10-0			
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 0.51 BC 0.80 WB 0.51 Matrix-S	DEFL. in Vert(LL) -0.28 1 Vert(CT) -0.39 1 Horz(CT) 0,07	L/d 480 360 n/a	PLATES MT20 M18AHS Weight: 91 lb	GRIP 244/190 186/179 FT = 20%F, 11%E

LUMBER- BRACING-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 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. (size) 22=Mechanical, 14=0-5-0

Max Grav 22=967(LC 1), 14=961(LC 1)

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

TOP CHORD 2-3=-2036/0, 3-4=-3390/0, 4-5=-3390/0, 5-6=-4040/0, 6-7=-4040/0, 7-8=-4040/0,

8-9=-3390/0, 9-10=-3390/0, 10-12=-2035/0

BOT CHORD 21-22=0/1208, 19-21=0/2830, 18-19=0/3794, 17-18=0/4040, 16-17=0/3794, 15-16=0/2830,

14-15=0/1207

2-22=-1516/0, 2-21=0/1077, 3-21=-1034/0, 3-19=0/716, 5-19=-516/0, 5-18=-77/635,

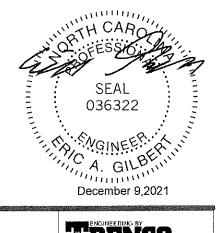
 $6-18 = -290/0,\ 12-14 = -1512/0,\ 12-15 = 0/1078,\ 10-15 = -1034/0,\ 10-16 = 0/715,\ 8-16 = -516/0,$

8-17=-77/635, 7-17=-290/0

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates 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.
- CAUTION, Do not erect truss backwards.



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

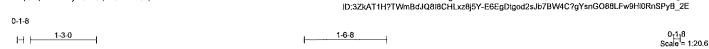
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a russ system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

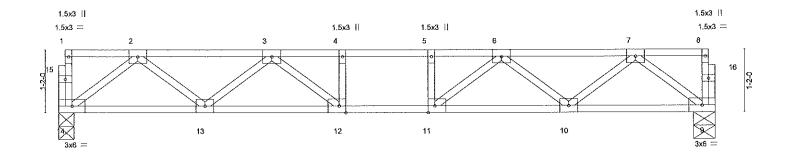
ANSITPH Quality Criteria, OSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



B18 Soundside Road Edenton, NC 27932

Truss Type	Qty Ply	•
		E16476548
F6 Floor	5 1	
	Job Re	eference (optional)
lie, NC - 28314,	8,430 s Aug 16 2021	1 MiTek Industries, Inc. Wed Dec 8 15:58:07 2021 Page 1
	F6 Floor	F6 Floor 5 1 Job Re





1			12-3-8			
			12-3-8		HIM TO THE TOTAL	1
Plate Offsets (X,Y)	[11:0-1-8,Edge], [12:0-1-8,Edge]		***************************************	W.T.		
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 0.26 BC 0.39 WB 0.29	DEFL. in Vert(LL) -0.07 1 Vert(CT) -0.09 1 Horz(CT) 0.02		PLATES MT20	GRIP 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 62 lb	FT = 20%F, 11%E

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

BOT CHORD 2x4 SP No.1(flat)
WEBS 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) 14=0-3-8, 9=0-5-0

Max Grav 14=656(LC 1), 9=656(LC 1)

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

TOP CHORD 2-3=-1271/0, 3-4=-1885/0, 4-5=-1885/0, 5-6=-1885/0, 6-7=-1271/0

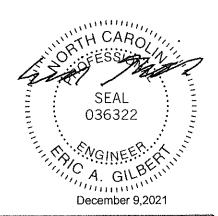
BOT CHORD 13-14=0/808, 12-13=0/1699, 11-12=0/1885, 10-11=0/1699, 9-10=0/808

WEBS 2-14=-1011/0, 2-13=0/603, 3-13=-557/0, 3-12=0/427, 7-9=-1011/0, 7-10=0/603,

6-10=-557/0, 6-11=0/427

NOTES-

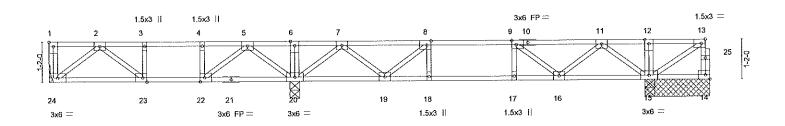
- Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





818 Soundside Road Edenlon, NC 27932

Job	Truss	Truss Type	Qty	Ply	E16476549
J0621-3571	F7	Floor	1	1	Job Reference (optional)
Comtech, Inc. Faye	Iteville, NC - 28314,				To 2021 Mirek Industries, Inc. Wed Dec 8 15:58:08 2021 Page 1 xz8j5Y-ilo2QChQOL_ADHmievWv44KRaYX?_O4R_gAL?syB_2D
1-3-0	1-6-12			2-4-4	1-5-0 1 ⁰ -1 ⁸



7-2-4 7-2-4		17-5-0 10-2-12		17,6-8 19-4-0 0-1-8 1-9-8
Plate Offsets (X,Y) [1:Edge,0-1-8], [8:0-1-8,Ed	dge], [9:0-1-8,Edge], [13:0-1-8	8,Edge], [22:0-1-8,Edge], [23:0-1-8,Edge]		
LOADING (psf) SPACING- TCLL 40.0 Plate Grip DOL TCDL 10.0 Lumber DOL BCLL 0.0 Rep Siress Incr BCDL 5.0 Code IRC2015/TPI	1.00 BC 0.1 YES WB 0.1	DEFL. in (loc) .30 Vert(LL) -0.03 18 .23 Vert(CT) -0.04 18 .24 Horz(CT) 0.01 15	>999 360 n/a n/a	

LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 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 6-0-0 oc bracing.

NS. All bearings 1-11-0 except (jt=length) 24=Mechanical, 20=0-3-8.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 14=-398(LC 10) REACTIONS.

Max Grav All reactions 250 lb or less at joint(s) except 24=357(LC 3), 20=1028(LC 9), 15=1138(LC 10),

15=1049(LC 1)

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

13-14=0/401, 2-3=-535/44, 3-4=-535/44, 4-5=-535/44, 5-6=0/574, 6-7=0/574, TOP CHORD

7-8=-604/0, 8-9=-908/0, 9-11=-520/0, 11-12=0/735, 12-13=0/735

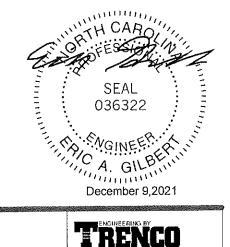
23-24=0/380, 22-23=-44/535, 20-22=-247/251, 19-20=-29/272, 18-19=0/908, BOT CHORD

17-18=0/908, 16-17=0/908 5-20=-647/0, 5-22=0/513, 4-22=-255/0, 11-15=-839/0, 11-16=0/489, 9-16=-496/0, **WEBS**

13-15=-849/0, 2-24=-476/0, 7-20=-824/0, 7-19=0/453, 8-19=-433/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 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 398 lb uplift at joint 14.
- 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.
- CAUTION, Do not erect truss backwards.



Scale: 3/8"=1"

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-74/3 rev. 5/19/2020 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 bucking 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

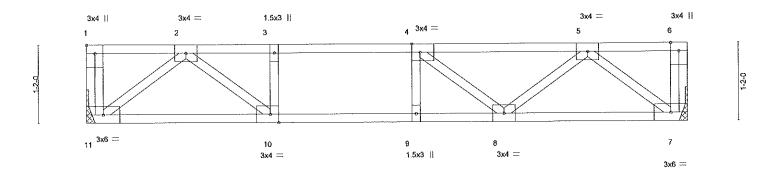
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



618 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	E16476550
J0621-3571	F8	Floor	3	1	Job Reference (optional)
Comtech, Inc, Fayette	ville, NC - 28314,	ID:3Zk	8.4 AT1H?TWmBdJ	430 s Aug Q818CHL>	16 2021 MiTek Industries, Inc. Wed Dec 8 15:58:08 2021 Page 1 xz8j5Y-ilo2QChQOL_ADHmievWv44KQJYTG_NmR_gAL?syB_2D
l	1-3-0	2-0-0			

Scale = 1:16.5



<u> </u>	and the secretaries—		9-0-0	
Plate Offsets (X,Y)	[1:Edge,0-1-8], [4:0-1-8,Edge], [10:0-1-4	8,Edge]		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOI. 1.00 Lumber DOI. 1.00 Rep Stress Incr YES	CSI. TC 0.38 BC 0.47 WB 0.26	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.07 8-9 >999 480 MT20 244/190 Vert(CT) -0.09 8-9 >999 360 Horz(CT) 0.01 7 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	Weight: 46 lb FT = 20%F,	11%E

LUMBER-

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

TOP CHORD

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

except end verticals.

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

REACTIONS.

(size) 11=Mechanical, 7=Mechanical

Max Grav 11=481(LC 1), 7=481(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-964/0, 3-4=-964/0, 4-5=-812/0 BOT CHORD 10-11=0/549, 9-10=0/964, 8-9=0/964, 7-8=0/585

5-7=-734/0, 5-8=0/296, 4-8=-258/0, 2-11=-689/0, 2-10=0/555 WEBS

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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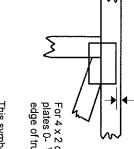


SECO

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/18" from outside edge of truss.

ω

O

O

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

software or upon request. Plate location details available in MiTek 20/20

PLATE SIZE



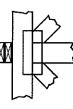
width measured perpendicular to slots. Second dimension is the length parallel to slots. The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

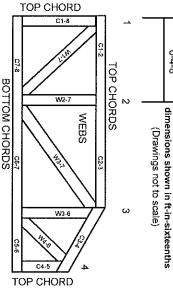
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89:

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

6-4-8



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

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

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

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

Numbering System

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.
- wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I Truss bracing must be designed by an engineer. For 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 all other interested parties. designer, erection supervisor, property owner and
- 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.
- 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.
- 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
- 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.
- 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.
- is not sufficient, and pictures) before use. Reviewing pictures alone Review all portions of this design (front, back, words
- 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.