

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0424-2463

Lot 170 Duncans Creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I65177446 thru I65177466

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

North Carolina COA: C-0844



April 26,2024

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 Lot 170 Duncans Creek 165177446 J0424-2463 Floor 2F01 11 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:48 2024 Page 1

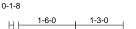
Fayetteville, NC - 28314, Comtech, Inc.

ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

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

except end verticals.







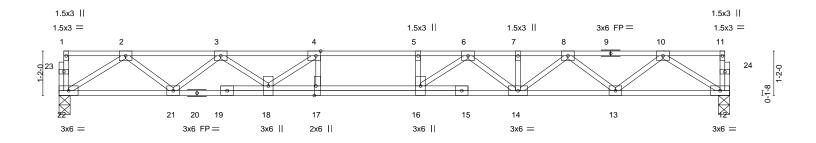


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [17:0-3-0,Edge]

LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.52 BC 0.63 WB 0.39	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         -0.20 16-17         >999         480           Vert(CT)         -0.28 16-17         >750         360           Horz(CT)         0.05         12         n/a         n/a	PLATES         GRIP           MT20         244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	11012(01) 0.03 12 11/4 11/4	Weight: 96 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) 22=0-3-8, 12=0-3-8 Max Grav 22=759(LC 1), 12=759(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1725/0, 3-4=-2780/0, 4-5=-3282/0, 5-6=-3282/0, 6-7=-2723/0, 7-8=-2723/0,

8-10=-1733/0

BOT CHORD  $21-22=0/1098,\ 18-21=0/2361,\ 17-18=0/3282,\ 16-17=0/3282,\ 14-16=0/3056,\ 13-14=0/2322,\ 14-16=0/3056,\ 14-1$ 

12-13=0/1106

WFBS 2-22=-1301/0, 2-21=0/817, 3-21=-827/0, 3-18=0/535, 4-18=-791/0, 4-17=-73/304, 10-12=-1311/0, 10-13=0/816, 8-13=-767/0, 8-14=0/512, 6-14=-429/0, 6-16=0/513

### 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) 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.



April 26,2024



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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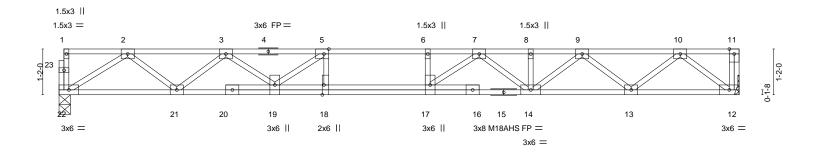
Job Truss Truss Type Qty Ply Lot 170 Duncans Creek 165177447 J0424-2463 2F02 Floor Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:49 2024 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



2-5-8 Scale = 1:29.4



17-4-0 Plate Offsets (X,Y)--[5:0-1-8,Edge], [18:0-3-0,Edge] **PLATES** GRIP LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d 244/190 TCLL 40.0 Plate Grip DOL 1.00 TC 0.34 Vert(LL) -0.19 17-18 >999 480 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.62 Vert(CT) -0.26 17-18 >797 360 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr YES WB 0.39 0.04 Horz(CT) 12 n/a n/a Code IRC2015/TPI2014 FT = 20%F. 11%E **BCDL** 5.0 Weight: 95 lb Matrix-S

LUMBER-**BRACING-**

2x4 SP No.1(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals. WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 22=0-3-8, 12=Mechanical Max Grav 22=746(LC 1), 12=751(LC 1)

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

TOP CHORD 2-3=-1690/0, 3-5=-2712/0, 5-6=-3178/0, 6-7=-3178/0, 7-8=-2588/0, 8-9=-2588/0,

9-10=-1575/0

BOT CHORD 21-22=0/1078, 19-21=0/2311, 18-19=0/3178, 17-18=0/3178, 14-17=0/2935, 13-14=0/2176,

12-13=0/939

2-22=-1277/0, 2-21=0/797, 3-21=-808/0, 3-19=0/515, 5-19=-748/0, 5-18=-83/283, WFBS 10-12=-1178/0, 10-13=0/829, 9-13=-781/0, 9-14=0/526, 7-14=-443/0, 7-17=0/520

### 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 3x4 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.
- 7) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	Lot 170 Duncans Creek
					I65177448
J0424-2463	2F03	Floor	1	1	
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:49 2024 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8







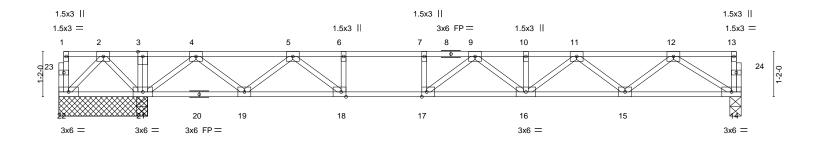


Plate Offsets (X,Y)	2-3 <sub>7</sub> 8 0-1-8 [17:0-1-8,Edge], [18:0-1-8,Edge]		17-7-8 15-4-0	
Flate Offsets (X, I)	[17.0-1-6,Euge], [16.0-1-6,Euge]			
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.74	Vert(LL) -0.20 16-17 >921 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.79	Vert(CT) -0.28 16-17 >668 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.02 14 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 91 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) TOP CHORD **BOT CHORD** 

BRACING-

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

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 21-22,19-21.

REACTIONS. (size) 22=2-3-8, 21=2-3-8, 21=2-3-8, 14=0-3-8

Max Uplift 22=-526(LC 4)

Max Grav 21=1389(LC 1), 21=1389(LC 1), 14=595(LC 4)

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

2-3=0/1055, 3-4=0/1056, 4-5=-449/0, 5-6=-1717/0, 6-7=-1717/0, 7-9=-1717/0,

9-10=-1898/0, 10-11=-1898/0, 11-12=-1275/0

**BOT CHORD** 21-22=-521/0, 18-19=0/1089, 17-18=0/1717, 16-17=0/1964, 15-16=0/1690, 14-15=0/847 **WEBS** 2-22=0/745, 2-21=-812/0, 12-14=-1003/0, 12-15=0/557, 11-15=-540/0, 11-16=0/266, 9-17=-379/41, 4-21=-1139/0, 4-19=0/780, 5-19=-835/0, 5-18=0/830, 6-18=-361/0

### 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 526 lb uplift at joint 22.
- 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.





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Job Truss Truss Type Qty Ply Lot 170 Duncans Creek 165177449 J0424-2463 2F04 Floor 8 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:50 2024 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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 Scale = 1:26.3 2-4-8

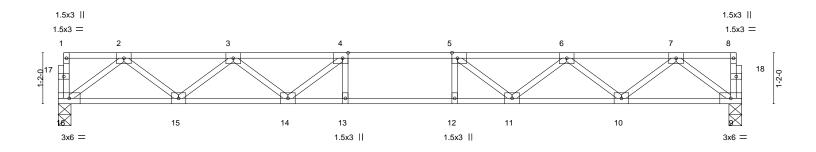


Plate Offsets (X,Y)--[4:0-1-8,Edge], [5:0-1-8,Edge] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defI L/d **TCLL** 40.0 Plate Grip DOL 1.00 TC 0.35 Vert(LL) -0.15 13-14 >999 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.67 Vert(CT) -0.20 13-14 >925 360 **BCLL** 0.0 Rep Stress Incr YES WB 0.34 Horz(CT) 0.04 n/a n/a **BCDL** Code IRC2015/TPI2014 FT = 20%F, 11%E 5.0 Matrix-S Weight: 77 lb

TOP CHORD

**BOT CHORD** 

LUMBER-BRACING-

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 16=0-3-8, 9=0-3-8 Max Grav 16=671(LC 1), 9=671(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1387/0, 3-4=-2187/0, 4-5=-2459/0, 5-6=-2187/0, 6-7=-1387/0

BOT CHORD  $15 - 16 = 0/834,\ 14 - 15 = 0/1913,\ 13 - 14 = 0/2459,\ 12 - 13 = 0/2459,\ 11 - 12 = 0/2459,\ 10 - 11 = 0/1913,\ 13 - 14 = 0/2459,\ 12 - 13 = 0/2459,\ 11 - 12 = 0/2459,\ 10 - 11 = 0/1913,\ 11 - 12 = 0/2459,\ 11 - 12 = 0/2459,\ 10 - 11 = 0/1913,\ 11 - 12 = 0/2459,\ 11 - 12 = 0/2459,\ 11 - 12 = 0/2459,\ 10 - 11 = 0/1913,\ 11 - 12 = 0/2459,\ 11 - 12 = 0/$ 

9-10=0/834

2-16=-1044/0, 2-15=0/720, 3-15=-684/0, 3-14=0/407, 4-14=-507/0, 7-9=-1044/0, **WEBS** 

7-10=0/720, 6-10=-684/0, 6-11=0/407, 5-11=-507/0

### 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) 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 170 Duncans Creek
					l65177450
J0424-2463	2F05	Floor	1	1	
					Job Reference (optional)

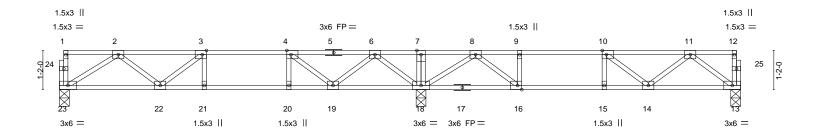
Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:50 2024 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

except end verticals.





								20-3-0						
'	ı		10-9-4			ı	9-6-4							
Plate Of	fsets (X,Y)	[3:0-1-8,Edge], [4:0-1-8,E	Edge], [10:0-1	-8,Edge], [16:	0-1-8,Edge									
LOADIN	IG (psf)	SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP		
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.07	15	>999	480	MT20	244/190		
TCDL	10.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.09	15	>999	360				
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	13	n/a	n/a				
BCDL	5.0	Code IRC2015/TI	PI2014	Matrix	(-S						Weight: 99 lb	FT = 20%F, 11%E		

LUMBER-BRACING-TOP CHORD

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

2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-18.

REACTIONS. (size) 23=0-3-8, 13=0-3-8, 18=0-3-8

Max Grav 23=461(LC 10), 13=415(LC 7), 18=913(LC 1)

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

2-3=-912/0, 3-4=-1157/0, 4-6=-849/0, 6-7=-87/301, 7-8=-86/302, 8-9=-922/0, TOP CHORD 9-10=-922/0, 10-11=-739/0

BOT CHORD  $22 - 23 = 0/644,\ 21 - 22 = 0/1157,\ 20 - 21 = 0/1157,\ 19 - 20 = 0/1157,\ 18 - 19 = 0/540,\ 16 - 18 = -2/590,\ 18 - 19 = 0/540,\ 18 - 1$ 

15-16=0/922, 14-15=0/922, 13-14=0/509

 $2\text{-}23\text{--}762/0,\ 2\text{-}22\text{=-}0/349,\ 3\text{-}22\text{=-}313/0,\ 6\text{-}18\text{=-}715/0,\ 6\text{-}19\text{=-}0/453,\ 4\text{-}19\text{=-}491/0,}$ WFBS

11-13=-637/0, 11-14=0/300, 8-18=-683/0, 8-16=0/542, 9-16=-257/0

### 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) 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 Lot 170 Duncans Creek 165177451 2F05A **FLOOR** J0424-2463 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:51 2024 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

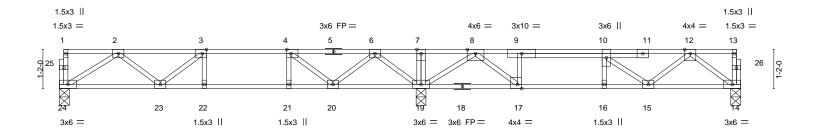
except end verticals.

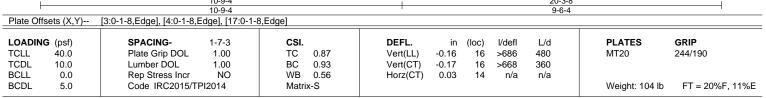
10-0-0 oc bracing: 23-24.

0-1-8



1-6-0 2-4-12 0-1-8 Scale = 1:34.3





TOP CHORD

**BOT CHORD** 

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) \*Except\* 5-13: 2x4 SP 2400F 2.0E(flat)

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

REACTIONS. (size) 24=0-3-8, 14=0-3-8, 19=0-3-8

Max Uplift 14=-491(LC 17) Max Grav 24=479(LC 10), 14=753(LC 7), 19=1088(LC 1)

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

TOP CHORD 2-3=-962/0, 3-4=-1249/6, 4-6=-987/243, 6-7=-374/951, 7-8=-373/951, 8-9=-1950/1651,

9-10=-1948/1646, 10-12=-1517/1218

**BOT CHORD** 23-24=0/668, 22-23=-6/1249, 21-22=-6/1249, 20-21=-6/1249, 19-20=-411/696, 17-19=-1049/1148, 16-17=-1651/1950, 15-16=-1651/1950, 14-15=-734/999 **WEBS** 2-24=-790/0, 2-23=-8/383, 3-23=-367/112, 6-19=-794/0, 6-20=0/534, 4-20=-669/0,

12-14=-1253/925, 12-15=-629/675, 10-15=-540/541, 8-19=-1018/359, 8-17=-769/1170,

9-17=-595/394

### 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 491 lb uplift at joint 14.
- 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 578 lb down and 941 lb up at 16-5-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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: 14-24=-8, 1-13=-80 Concentrated Loads (lb) Vert: 10=-527(B)



April 26,2024

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Job Truss Truss Type Qty Ply Lot 170 Duncans Creek 165177452 J0424-2463 Floor 2F06 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:51 2024 Page 1

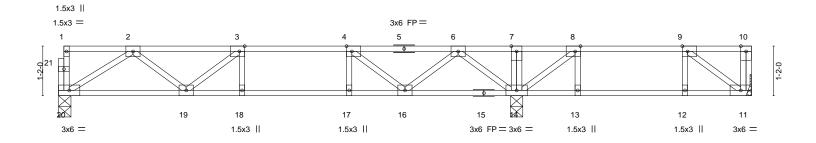
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ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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



2-4-12 Scale = 1:27.1



H				16-3-8 5-6-4								
Plate Offs	sets (X,Y)	[3:0-1-8,Edge], [4:0-1-8,E	Edge], [8:0-1-8	10-9-4 3,Edge], [9:0-1	-8,Edge]						3-0-4	
LOADING	G (psf)	SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.06	18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	ВС	0.40	Vert(CT)	-0.08	18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	11	n/a	n/a		
BCDL	5.0	Code IRC2015/Ti	PI2014	Matrix	(-S						Weight: 80 lb	FT = 20%F, 11%E

TOP CHORD

LUMBER-BRACING-

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

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

REACTIONS. (size) 20=0-3-8, 11=Mechanical, 14=0-3-8 Max Grav 20=456(LC 10), 11=239(LC 7), 14=744(LC 9)

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

TOP CHORD 2-3=-897/0, 3-4=-1129/0, 4-6=-807/0, 8-9=-280/0

19-20=0/637, 18-19=0/1129, 17-18=0/1129, 16-17=0/1129, 14-16=0/496, 13-14=0/280, BOT CHORD

12-13=0/280, 11-12=0/280

**WEBS** 2-20=-754/0, 2-19=0/339, 3-19=-307/0, 6-14=-718/0, 6-16=0/422, 4-16=-443/0,

9-11=-345/0, 8-14=-471/0

### 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) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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 Lot 170 Duncans Creek 165177453 J0424-2463 Floor 2F07 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:52 2024 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

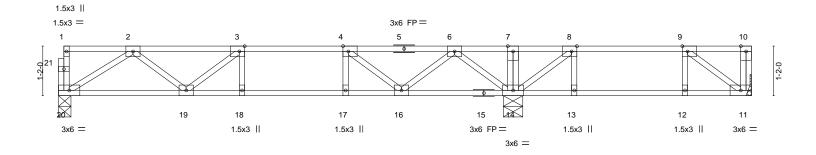
ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

except end verticals.



2-5-12 Scale = 1:27.1



L				10-6-4					1		10-3-0	
				10-8-4					1		5-7-4	<u> </u>
Plate Off	fsets (X,Y)	[3:0-1-8,Edge], [4:0-1-8,E	Edge], [8:0-1-8	,Edge], [9:0-	1-8,Edge]							
LOADIN	G (psf)	SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.06	18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.39	Vert(CT)	-0.08	18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	11	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 80 lb	FT = 20%F, 11%E

TOP CHORD

LUMBER-BRACING-

10-9-4

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

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

REACTIONS. (size) 20=0-3-8, 11=Mechanical, 14=0-5-8 Max Grav 20=452(LC 10), 11=242(LC 7), 14=743(LC 9)

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

TOP CHORD 2-3=-887/0, 3-4=-1115/0, 4-6=-801/0, 8-9=-284/0

19-20=0/632, 18-19=0/1115, 17-18=0/1115, 16-17=0/1115, 14-16=0/496, 13-14=0/284, BOT CHORD

12-13=0/284, 11-12=0/284

**WEBS** 2-20=-748/0, 2-19=0/333, 3-19=-303/0, 6-14=-713/0, 6-16=0/415, 4-16=-434/0,

9-11=-351/0. 8-14=-474/0

### 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) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.





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

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Job Truss Truss Type Qty Ply Lot 170 Duncans Creek 165177454 J0424-2463 Floor 2F08 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:52 2024 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

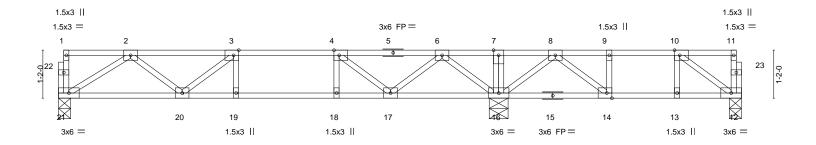
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.





0<sub>1</sub>1<sub>8</sub> Scale = 1:28.0



			10	)-8-4							16-7-0	
			10	)-8-4		ı						
Plate Offset	ts (X,Y)	[3:0-1-8,Edge], [4:0-1-8,E										
	(psf) 40.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	1-7-3 1.00 1.00 YES	CSI. TC BC WB	0.25 0.43 0.21	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.08 0.01	(loc) 19 19 12	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	5.0	Code IRC2015/TF		Matri		1.0.2(01)	2.01		.,, α		Weight: 83 lb	FT = 20%F, 11%E

TOP CHORD

**BOT CHORD** 

LUMBER-BRACING-

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

(size) 21=0-3-8, 12=0-3-8, 16=0-5-8

REACTIONS. Max Grav 21=436(LC 3), 12=228(LC 7), 16=815(LC 1)

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

TOP CHORD 2-3=-841/0, 3-4=-1029/0, 4-6=-673/0, 6-7=0/463, 7-8=0/463, 8-9=-277/6, 9-10=-277/6 BOT CHORD 20-21=0/609, 19-20=0/1029, 18-19=0/1029, 17-18=0/1029, 16-17=-32/345, 13-14=-6/277,

12-13=-6/277

**WEBS** 2-21=-721/0, 2-20=0/301, 6-16=-721/0, 6-17=0/451, 4-17=-498/0, 10-12=-339/9,

8-16=-450/0, 8-14=0/302

### 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) 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 Lot 170 Duncans Creek 165177455 J0424-2463 2F09 Floor Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:53 2024 Page 1

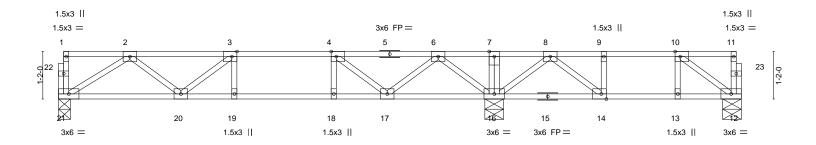
Fayetteville, NC - 28314, Comtech, Inc.

ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

6-0-0 oc bracing: 16-17,14-16.

0<sub>1</sub>1<sub>8</sub> Scale = 1:28.3





			10-8	3-4				1			16-9-0	
			10-8	3-4	6-0-12							
Plate Offset	ts (X,Y)	[3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [14:0-1-8,Edge]										
LOADING	(psf)	SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.06	` 19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.08	19	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 84 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, BOT CHORD 2x4 SP No.1(flat) except end verticals. WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

REACTIONS. (size) 21=0-3-8, 16=0-5-8, 12=0-5-8

Max Grav 21=437(LC 3), 16=821(LC 1), 12=232(LC 7)

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

2-3=-843/0, 3-4=-1034/0, 4-6=-680/0, 6-7=0/457, 7-8=0/457, 8-9=-286/0, 9-10=-286/0 TOP CHORD BOT CHORD 20-21=0/611, 19-20=0/1034, 18-19=0/1034, 17-18=0/1034, 16-17=-44/352, 13-14=0/286, 12-13=0/286

2-21=-723/0, 2-20=0/302, 6-16=-722/0, 6-17=0/452, 4-17=-499/0, 8-16=-456/0,

8-14=0/312, 10-12=-351/0

### 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) 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 Lot 170 Duncans Creek 165177456 2F10-GR J0424-2463 FLOOR GIRDER

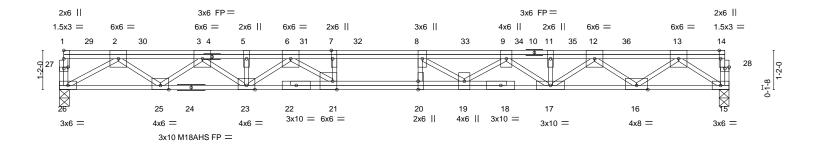
Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:53 2024 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8 1-6-0 1-3-0

2-5-0

0-1-8 Scale = 1:34.3



19-11-0

Plate Off	late Offsets (X,Y) [7:0-3-0,Edge], [14:0-3-0,Edge], [20:0-3-0,0-0-0], [21:0-1-8,Edge], [27:0-1-8,0-0-8], [28:0-1-8,0-0-8]											
LOADIN	G (psf)	SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.33	20	>707	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.47	20	>500	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.09	15	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 135 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**

2x4 SP 2400F 2.0E(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD 2x4 SP 2400F 2.0E(flat) except end verticals.

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

REACTIONS. (size) 26=0-3-8, 15=0-3-8

Max Grav 26=1339(LC 1), 15=1309(LC 1)

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

TOP CHORD 2-3=-3284/0, 3-5=-5330/0, 5-6=-5330/0, 6-7=-6956/0, 7-8=-6956/0, 8-9=-6522/0,

9-11=-5156/0, 11-12=-5156/0, 12-13=-3032/0

BOT CHORD 25-26=0/2067, 23-25=0/4440, 21-23=0/6083, 20-21=0/6956, 19-20=0/6956, 17-19=0/6045, 16-17=0/4235, 15-16=0/1777

2-26=-2406/0, 2-25=0/1547, 3-25=-1468/0, 3-23=0/1111, 6-23=-939/0, 6-21=0/1172, 7-21=-491/0, 13-15=-2179/0, 13-16=0/1593, 12-16=-1528/0, 12-17=0/1149,

9-17=-1109/0, 9-19=0/652, 8-19=-660/0

### NOTES-

WFBS

- 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) 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 130 lb down at 0-11-0, 130 lb down at 2-6-3, 130 lb down at 4-1-6, 130 lb down at 5-8-9, 128 lb down at 7-3-12, 79 lb down at 8-10-15, 95 lb down at 10-6-2, 128 lb down at 12-1-5, 128 lb down at 13-8-8, 128 lb down at 15-3-11, and 128 lb down at 16-10-14, and 128 lb down at 18-6-1 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 15-26=-8, 1-14=-80

Concentrated Loads (lb)

Vert: 3=-78(F) 5=-78(F) 13=-76(F) 8=-76(F) 29=-81(F) 30=-78(F) 31=-76(F) 32=-76(F) 33=-76(F) 34=-76(F) 35=-76(F) 36=-76(F)



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	Lot 170 Duncans Creek
		5,000			l65177457
J0424-2463	2F11	FLOOR	8	1	Lab Defenses (anti-nell)
					Job Reference (optional)

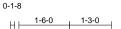
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:54 2024 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

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

except end verticals.



2-5-0

0-1-8 Scale = 1:34.3

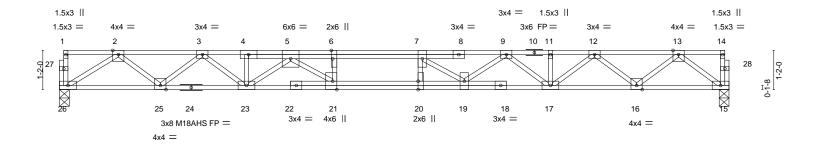


Plate Offsets (X Y)-- [6:0-3-0 Edge] [20:0-3-0 0-0-0] [21:0-3-0 Edge]

	,.,	[0:0 0 0;=ago]; [=0:0 0 0;0	j, <u>[</u> =	-,								
LOADING	(psf)	SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.24	20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.32	20	>729	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.05	15	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI	2014	Matri	x-S						Weight: 117 lb	FT = 20%F, 11%E

TOP CHORD

**BOT CHORD** 

LUMBER-**BRACING-**

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 26=0-3-8, 15=0-3-8 Max Grav 26=860(LC 1), 15=860(LC 1)

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

TOP CHORD 2-3=-2012/0, 3-4=-3235/0, 4-5=-3239/0, 5-6=-4476/0, 6-7=-4476/0, 7-9=-4052/0,

9-11=-3147/0, 11-12=-3147/0, 12-13=-1861/0

BOT CHORD  $25 - 26 = 0/1263, \ 23 - 25 = 0/2714, \ 21 - 23 = 0/3915, \ 20 - 21 = 0/4476, \ 19 - 20 = 0/4476, \ 17 - 19 = 0/3648, \ 20 - 21 = 0/4476, \ 20 -$ 

16-17=0/2594, 15-16=0/1087

2-26=-1498/0, 2-25=0/974, 3-25=-914/0, 3-23=0/665, 13-15=-1362/0, 13-16=0/1007, WFBS

12-16=-955/0, 12-17=0/706, 9-17=-639/0, 9-19=0/558, 7-19=-717/0, 5-23=-848/0,

5-21=0/903, 6-21=-367/0

### 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 3x6 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.





Job Truss Truss Type Qty Ply Lot 170 Duncans Creek 165177458 2F11A Floor J0424-2463 2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:54 2024 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

1-7-2 1-6-0 1-3-0

ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

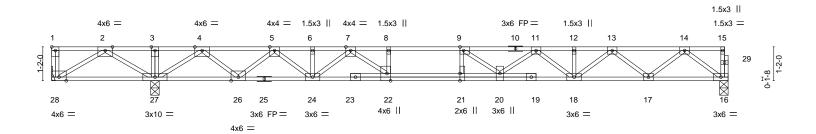
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals.

6-0-0 oc bracing: 27-28,26-27.

2-4-12 0-11-8

Scale = 1:39.7



	00.12					20 1	•				
	3-6-12	ı				19-9-	4				ı
Plate C	Offsets (X,Y)	[1:Edge,0-1-8], [9:0-1-8	,Edge], [21:0-3	-0,0-0-0], [22:	0-3-0,Edge]						
LOADI	NG (psf)	SPACING-	1-7-3	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.26 20-21	>916	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.35 20-21	>669	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.03 16	n/a	n/a		
BCDL	5.0	Code IRC2015/7	TPI2014	Matri	k-S					Weight: 127 lb	FT = 20%F, 11%E
				1						1	

23-4-0

TOP CHORD

**BOT CHORD** 

LUMBER-BRACING-

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

REACTIONS. (size) 28=Mechanical, 27=0-3-8, 16=0-3-8

Max Uplift 28=-757(LC 4)

Max Grav 27=1957(LC 1), 16=720(LC 4)

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

 $2-3=0/2592,\ 3-4=0/2592,\ 4-5=0/266,\ 5-6=-1328/0,\ 6-7=-1328/0,\ 7-8=-2750/0,\ 7-8=$ 8-9=-2750/0, 9-11=-2920/0, 11-12=-2443/0, 12-13=-2443/0, 13-14=-1510/0

**BOT CHORD** 27-28=-1280/0, 26-27=-1147/0, 24-26=0/638, 22-24=0/2033, 21-22=0/2750, 20-21=0/2750, 18-20=0/2815, 17-18=0/2077, 16-17=0/903

WEBS 2-28=0/1497, 2-27=-1656/0, 4-27=-1724/0, 4-26=0/1187, 5-26=-1125/0, 5-24=0/882,

7-24=-896/0, 7-22=0/969, 8-22=-260/0, 14-16=-1131/0, 14-17=0/790, 13-17=-739/0,

13-18=0/466, 11-18=-476/0, 11-20=0/259, 9-20=-209/412, 9-21=-382/6

- 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 757 lb uplift at joint 28.
- 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.



April 26,2024



Job Truss Truss Type Qty Lot 170 Duncans Creek 165177459 Floor 2F12 J0424-2463 8 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:55 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 1-5-13 1 3x4 || 2 3x4 = 3 4 1.5x3 || Scale = 1:8.5 9 3x4 || 8 3x6 =1.5x3 II 3x6 = 3-9-14 Plate Offsets (X,Y)--[1:Edge,0-1-8] LOADING (psf) SPACING-(loc) L/d **PLATES** GRIP CSI. DEFL. in I/defI Plate Grip DOL 244/190 TCLL 40.0 1.00 TC 0.11 Vert(LL) 0.00 >999 480 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.06 Vert(CT) -0.01 6-7 >999 360 **BCLL** 0.0 Rep Stress Incr NO WB 0.23 Horz(CT) 0.00 6 n/a n/a **BCDL** Code IRC2015/TPI2014 FT = 20%F, 11%E 5.0 Matrix-S Weight: 24 lb LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 3-9-14 oc purlins,

**BOT CHORD** 

except end verticals.

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

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

REACTIONS. (size) 7=Mechanical, 6=0-3-8 Max Grav 7=140(LC 1), 6=2168(LC 1)

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

**WEBS** 3-6=-2047/0

### NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 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.

### LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 5-7=-8, 1-4=-80 Concentrated Loads (lb) Vert: 3=-2000



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road Edenton, NC 27932



Fayetteville, NC - 28314,

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Structural wood sheathing directly applied or 3-5-14 oc purlins,

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

except end verticals.

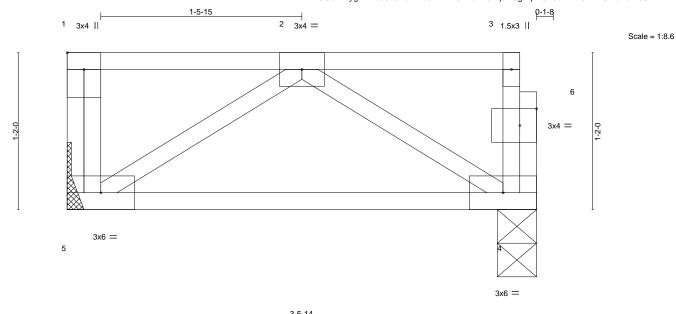


Plate Offsets (X,Y)--[1:Edge,0-1-8], [6:0-1-8,0-1-8] LOADING (psf) SPACING-DEFL. L/d **PLATES** GRIP CSI. in (loc) I/defI Plate Grip DOL 244/190 TCLL 40.0 1.00 TC 0.09 Vert(LL) 0.00 5 480 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.08 Vert(CT) -0.01 4-5 >999 360 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 n/a n/a **BCDL** Code IRC2015/TPI2014 FT = 20%F, 11%E 5.0 Matrix-P Weight: 21 lb

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

> (size) 5=Mechanical, 4=0-3-8 Max Grav 5=142(LC 1), 4=137(LC 1)

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

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





818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Lot 170 Duncans Creek 165177461 2F14-GR J0424-2463 FLOOR GIRDER Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:55 2024 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

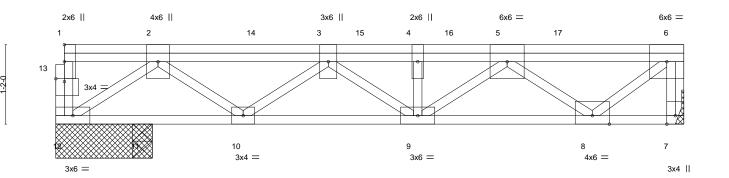
ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

except end verticals.

0-1-8 1-3-0

1-1-2 Scale = 1:16.9



1-1-8 Plate Offsets (X,Y)--[13:0-1-8,0-0-8] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 40.0 Plate Grip DOL 1.00 TC 0.52 Vert(LL) -0.04 9-10 >999 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.45 Vert(CT) -0.05 9-10 >999 360 **BCLL** 0.0 Rep Stress Incr NO WB 0.58 0.02 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20%F, 11%E **BCDL** 5.0 Matrix-S Weight: 62 lb

TOP CHORD

LUMBER-**BRACING-**

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

2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 7-8.

REACTIONS. (size) 7=Mechanical, 12=1-5-0, 11=0-3-8 Max Uplift 7=-877(LC 9), 12=-76(LC 9), 11=-20(LC 9)

Max Grav 7=591(LC 1), 12=738(LC 1), 11=71(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 6-7=-586/875, 2-3=-1447/538, 3-4=-1686/1549, 4-5=-1686/1549, 5-6=-623/914 TOP CHORD **BOT CHORD** 11-12=-185/1042. 10-11=-185/1042. 9-10=-935/1884. 8-9=-1880/1245

WEBS 2-12=-1278/230, 2-10=-449/525, 3-10=-564/505, 3-9=-834/0, 5-9=0/583, 5-8=-789/1227,

6-8=-1172/799

### 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 877 lb uplift at joint 7, 76 lb uplift at joint 12 and 20 lb uplift at joint 11.
- 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 207 lb down at 1-4-7, 229 lb down at 2-11-10, 229 lb down at 4-6-13, 174 lb down at 4-10-4, 821 lb up at 5-10-8, 229 lb down at 6-2-0, and 821 lb up at 7-5-11, and 226 lb down at 7-9-3 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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: 7-12=-8, 1-6=-80

Concentrated Loads (lb)

Vert: 2=-178(F) 14=-178(F) 15=-288(F=-178, B=-110) 16=13(F=-178, B=191) 17=16(F=-175, B=191)



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

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

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lot 170 Duncans Creek 165177462 Floor 2F15 J0424-2463 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:56 2024 Page 1 Fayetteville, NC - 28314, Comtech, Inc, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 1-7-4 1 3x4 || 3 1.5x3 || 3x4 = Scale = 1:8.6 3x4 =1-2-0 3x6 =3x6 = Plate Offsets (X,Y)--[1:Edge,0-1-8], [6:0-1-8,0-1-8] LOADING (psf) SPACING-DEFL. L/d **PLATES** GRIP CSI. in (loc) I/defI Plate Grip DOL 244/190 TCLL 40.0 1.00 TC 0.13 Vert(LL) 0.00 5 480 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.11 Vert(CT) -0.02 4-5 >999 360 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 4 n/a n/a

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

**BCDL** 

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

5.0

(size) 5=Mechanical, 4=0-3-8 Max Grav 5=190(LC 1), 4=184(LC 1)

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

Code IRC2015/TPI2014

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

Matrix-P

4) CAUTION, Do not erect truss backwards.



FT = 20%F, 11%E

Weight: 22 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.



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 170 Duncans Creek
					I65177463
J0424-2463	2FKW1	Floor Supported Gable	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:56 2024 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

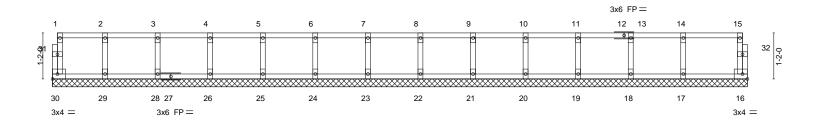
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-11-8

0-11-8 Scale = 1:29.2



17-7-8 17-7-8								
LOADING (psf) TCLL 40.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00	CSI. TC 0.09 BC 0.02	DEFL. Vert(LL) Vert(CT)		efl L/d n/a 999 n/a 999	PLATES MT20	<b>GRIP</b> 244/190	
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.03 Matrix-R	Horz(CT)	0.00 16 r	n/a n/a	Weight: 73 lb	FT = 20%F, 11%E	

**BOT CHORD** 

LUMBER-BRACING-TOP CHORD

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

2x4 SP No.3(flat)

REACTIONS. All bearings 17-7-8.

(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.

**OTHERS** 

- 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 170 Duncans Creek
					l65177464
J0424-2463	2FKW2	Floor Supported Gable	1	1	
					Job Reference (optional)

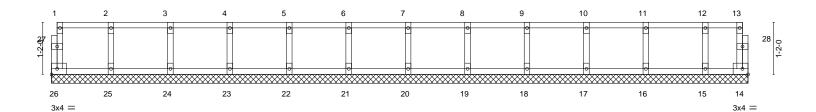
Fayetteville, NC - 28314, Comtech, Inc,

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

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:57 2024 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

Scale = 1:25.8



15-7-8 15-7-8								<del></del>
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 0.06 BC 0.01 WB 0.03 Matrix-R	' '	in (loc) n/a - n/a - 0.00 14	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 66 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E

LUMBER-BRACING-

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

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

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

except end verticals.

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

REACTIONS. All bearings 15-7-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 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) 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.



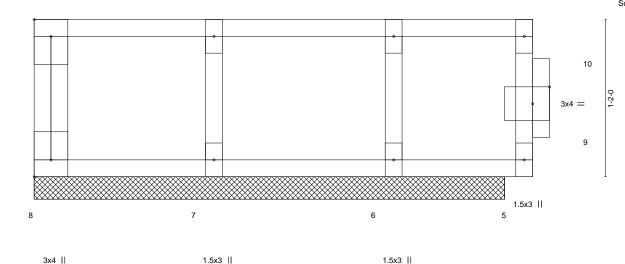
April 26,2024

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

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



Job Truss Truss Type Qty Lot 170 Duncans Creek 165177465 J0424-2463 2FKW3 Floor Supported Gable Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:57 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 4 1.5x3 || 2 1.5x3 || 3 1.5x3 || 1 3x4 || Scale = 1:8.5



		3-4	l-6			0-5-8	
Plate Offsets (X,Y) [1:Ed	ge,0-1-8], [8:Edge,0-1-8], [9:0-1-8,	0-1-8]					
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         NO           Code IRC2015/TPI2014	CSI. TC 0.30 BC 0.18 WB 0.07 Matrix-R	Vert(CT)	in (loc) l/defl n/a - n/a n/a - n/a 0.00 6 n/a	L/d 999 999 n/a	PLATES MT20 Weight: 19 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E

TOP CHORD

**BOT CHORD** 

LUMBER-BRACING-

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

2x4 SP No.3(flat)

(size) 8=3-5-14, 7=3-5-14, 6=3-5-14 Max Grav 8=24(LC 1), 7=119(LC 1), 6=418(LC 1)

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

WEBS 3-6=-310/0

### NOTES-

**OTHERS** 

REACTIONS.

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 3) Gable studs spaced at 1-4-0 oc.
- 4) Non Standard bearing condition. Review required.
- 5) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 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.

### LOAD CASE(S) Standard

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

Vert: 5-8=-10, 1-3=-100, 3-4=-280



3-9-14

Structural wood sheathing directly applied or 3-9-14 oc purlins,

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

except end verticals.

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

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818 Soundside Road Edenton, NC 27932

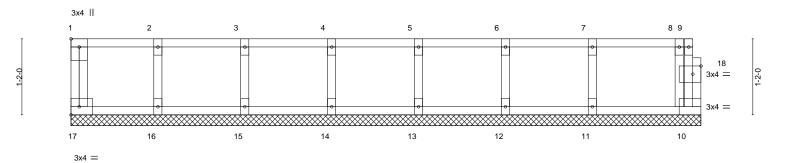
Job	Truss	Truss Type	Qty	Ply	Lot 170 Duncans Creek
					l65177466
J0424-2463	2FKW4	Floor Supported Gable	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc,

8.430 s Jan 6 2022 MiTek Industries, Inc. Thu Apr 25 15:16:58 2024 Page 1 ID:POCeVkxyg?KNuaGv8nieIHzJsMR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0,1,8 0,1,8

Scale = 1:17.7



<del></del>			9-8-0 9-8-0		<del></del>
Plate Offsets (X,Y)	[1:Edge,0-1-8], [18:0-1-8,0-1-8]				
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 0.06 BC 0.02 WB 0.03 Matrix-R	DEFL.         in (loc)           Vert(LL)         n/a         -           Vert(CT)         n/a         -           Horz(CT)         0.00         10	l/defl L/d n/a 999 n/a 999 n/a n/a	<b>GRIP</b> 244/190  FT = 20%F. 11%E

LUMBER-**BRACING-**

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

REACTIONS. All bearings 9-8-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 17, 10, 16, 15, 14, 13, 12, 11

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) n/a
- 7) 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.



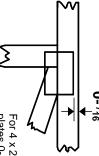


## Symbols

## PLATE LOCATION AND ORIENTATION



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



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

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

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

### PLATE SIZE

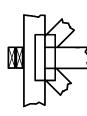
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



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

### **BEARING**



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

### Industry Standards:

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

DSB-22: ANSI/TPI1:

## Numbering System



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

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

# Product Code Approvals

ICC-ES Reports:

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

# Design General Notes

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

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

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## MiTek



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

# General Safety Notes

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

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

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- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

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

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