

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0524-3235

Lot 137 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: I67082913 thru I67082928

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

North Carolina COA: C-0844



July 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 137 Duncans Creek
					167082913
J0524-3235	F01	FLOOR	11	1	
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

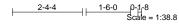
8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Jul 24 11:20:32 2024 Page 1 ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

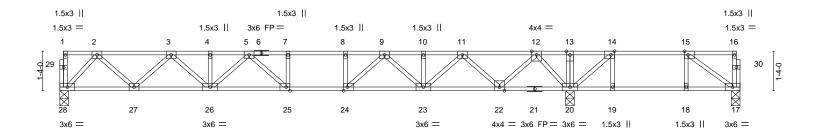


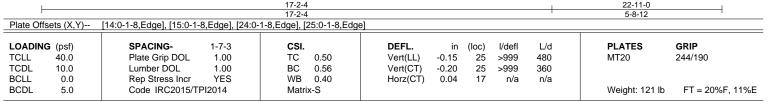












LUMBER-**BRACING-**

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

TOP CHORD **BOT 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, Except: 6-0-0 oc bracing: 19-20,18-19,17-18.

REACTIONS. (size) 28=0-3-8, 17=0-3-8, 20=0-3-8

Max Uplift 17=-24(LC 3)

Max Grav 28=721(LC 10), 17=222(LC 4), 20=1114(LC 9)

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

2-3=-1197/0, 3-4=-2080/0, 4-5=-2080/0, 5-7=-2451/0, 7-8=-2451/0, 8-9=-2451/0, 9-10=-1931/0, 10-11=-1931/0, 11-12=-950/0, 12-13=0/479, 13-14=0/479

BOT CHORD 27-28=0/653, 26-27=0/1720, 25-26=0/2330, 24-25=0/2451, 23-24=0/2237, 22-23=0/1519,

20-22=0/354

2-28=-957/0, 2-27=0/757, 3-27=-728/0, 3-26=0/489, 12-20=-1061/0, 12-22=0/842,

11-22=-803/0, 11-23=0/572, 9-23=-428/0, 9-24=0/486, 5-26=-340/0, 15-17=-259/180,

14-20=-610/0, 5-25=-81/388

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 17.
- 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.



July 26,2024



Job	Truss	Truss Type	Qty	Ply	Lot 137 Duncans Creek
					I67082914
J0524-3235	F02	FLOOR	1	1	
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

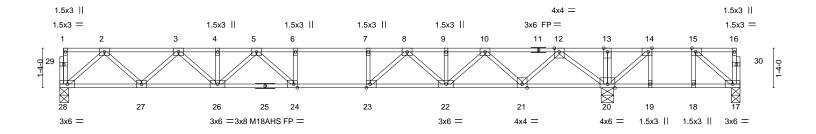
8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Jul 24 11:20:32 2024 Page 1 ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f











1	18-5-6								1 22-11-0	1	
	18-5-6								4-5-10	1	
Plate Offse	ets (X,Y)	[14:0-1-8,Edge], [15:0-1-8	8,Edge], [23:0	-1-8,Edge], [2	24:0-1-8,Edg	je]					
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	0.60	Vert(LL)	-0.20 24-26	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.27 24-26	>811	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.04 20	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matrix	k-S					Weight: 121 lb	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, Except: 6-0-0 oc bracing: 19-20,18-19,17-18.

REACTIONS. (size) 28=0-3-8, 17=0-3-8, 20=0-5-1

Max Uplift 17=-183(LC 3)

Max Grav 28=747(LC 10), 17=120(LC 4), 20=1289(LC 1)

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

2-3=-1358/0, 3-4=-2252/0, 4-5=-2252/0, 5-6=-2619/0, 6-7=-2619/0, 7-8=-2619/0, 8-9=-1975/0, 9-10=-1975/0, 10-12=-912/0, 12-13=0/892, 13-14=0/892, 14-15=-46/374 TOP CHORD BOT CHORD $27 - 28 = 0/809,\ 26 - 27 = 0/1887,\ 24 - 26 = 0/2503,\ 23 - 24 = 0/2619,\ 22 - 23 = 0/2324,\ 21 - 22 = 0/1519,\ 22 - 23 = 0/2324,\ 21 - 22 = 0/1519,\ 22 - 23 = 0/2324,\ 21 - 22 = 0/1519,\ 22 - 23 = 0/2324,\ 21 - 22 = 0/1519,\ 22 - 23 = 0/2324,\ 21 - 22 = 0/1519,\ 22 - 23 = 0/2324,\ 21 - 22 = 0/1519,\ 22 - 23 = 0/2324,\ 21 - 22 = 0/1519,\ 22 - 23 = 0/2324,\ 21 - 22 = 0/1519,\ 22 - 23 = 0/2324,\ 21 - 22 = 0/1519,\ 22 - 23 = 0/2324,\ 21 - 22 = 0/1519,\ 22 - 23 = 0/2324,\ 21 - 22 = 0/1519,\ 22 - 23 = 0/2324,\ 21 - 22 = 0/1519,\ 21 - 23 = 0/2324,\ 21 - 22 = 0/1519,\ 21 - 23 = 0/2324,\ 21 - 22 = 0/1519,\ 21 - 23 = 0/2324,\ 21 - 23 = 0/$

20-21=0/272, 19-20=-374/46, 18-19=-374/46, 17-18=-374/46

WEBS 2-28=-1075/0, 2-27=0/764, 3-27=-736/0, 3-26=0/497, 5-26=-341/0, 5-24=-86/408, 12-20=-1365/0, 12-21=0/898, 10-21=-853/0, 10-22=0/627, 8-22=-482/0, 8-23=0/593,

7-23=-299/0, 15-17=-56/493, 14-20=-779/0

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 17.
- 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.





J	ob	Truss	Truss Type	Qty	Ply	Lot 137 Duncans Creek
١.	0504 0005	F00	El OOD	_		167082915
J	0524-3235	F03	FLOOR	5	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Jul 24 11:20:33 2024 Page 1 ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





0-1-8 Scale: 3/8"=1

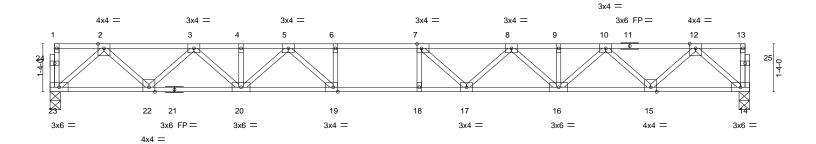


Plate Offsets (X,Y)--[7:0-1-8,Edge], [19:0-1-8,Edge] **GRIP** LOADING (psf) SPACING-CSI. DEFL. (loc) I/defl L/d **PLATES TCLL** 40.0 Plate Grip DOL 1.00 TC 0.61 Vert(LL) -0.27 18 >858 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.96 Vert(CT) -0.3718 >626 360 **BCLL** 0.0 Rep Stress Incr YES WB 0.43 Horz(CT) 0.06 14 n/a n/a **BCDL** Code IRC2015/TPI2014 Weight: 102 lb FT = 20%F. 11%E 5.0 Matrix-S

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

BOT CHORD 2-2-0 oc bracing: 18-19.

REACTIONS. (size) 23=0-3-8, 14=0-3-8

Max Grav 23=840(LC 1), 14=840(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-1561/0, 3-4=-2640/0, 4-5=-2640/0, 5-6=-3312/0, 6-7=-3312/0, 7-8=-3198/0,

8-9=-2636/0, 9-10=-2636/0, 10-12=-1560/0

22-23=0/915, 20-22=0/2178, 19-20=0/3002, 18-19=0/3312, 17-18=0/3312, 16-17=0/3032,

15-16=0/2182, 14-15=0/914 WFBS 2-23=-1217/0, 2-22=0/898, 3-22=-858/0, 3-20=0/628, 5-20=-492/0, 5-19=0/650,

6-19=-297/0, 12-14=-1215/0, 12-15=0/899, 10-15=-864/0, 10-16=0/618, 8-16=-539/0,

8-17=0/363, 7-17=-427/123

NOTES-

BOT CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





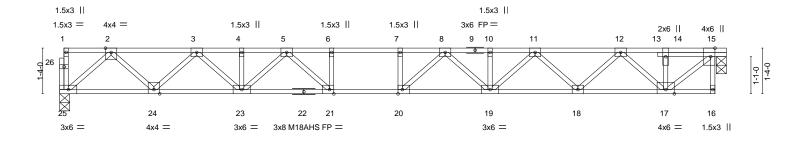
Job	Truss	Truss Type	Qty	Ply	Lot 137 Duncans Creek	٦
					I67082916	
J0524-3235	F04	FLOOR	1	1		
					Job Reference (optional)	

Fayetteville, NC - 28314, Comtech, Inc.

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Scale = 1:33.6





-	19-1-8 19-1-8							
Plate Offsets (X,Y)	Plate Offsets (X,Y) [15:0-3-0,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge]							
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 1-7-3 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.57 BC 0.77 WB 0.55 Matrix-S	Vert(LL) -0.25 19-20 >	/defl L/d -924 480 -671 360 n/a n/a	PLATES MT20 M18AHS Weight: 104 lb	GRIP 244/190 186/179 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.

REACTIONS. (size) 25=0-3-8, 15=0-3-8 Max Grav 25=828(LC 1), 15=833(LC 1)

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

TOP CHORD 2-3=-1535/0, 3-4=-2591/0, 4-5=-2591/0, 5-6=-3219/0, 6-7=-3219/0, 7-8=-3219/0, 8-10=-2942/0, 10-11=-2942/0, 11-12=-2120/0, 12-14=-894/0, 14-15=-894/0

BOT CHORD $24 - 25 = 0/901,\ 23 - 24 = 0/2141,\ 21 - 23 = 0/2937,\ 20 - 21 = 0/3219,\ 19 - 20 = 0/3158,\ 18 - 19 = 0/2616,\ 18 - 19 = 0/$

17-18=0/1607

15-17=0/1164, 2-25=-1198/0, 2-24=0/881, 3-24=-843/0, 3-23=0/612, 5-23=-470/0, WFBS

5-21=0/602, 6-21=-294/0, 12-17=-968/0, 12-18=0/713, 11-18=-690/0, 11-19=0/444,

8-19=-314/0, 8-20=-185/399

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) 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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 7) CAUTION, Do not erect truss backwards.



July 26,2024



Job Truss Truss Type Qty Ply Lot 137 Duncans Creek 167082917 J0524-3235 F04-GR FLOOR GIRDER Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

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

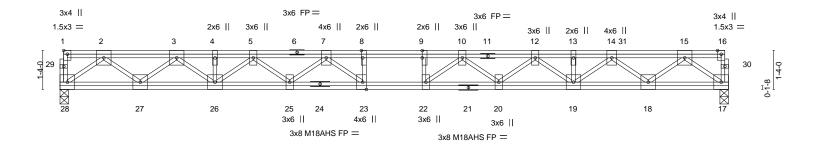
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



1-11-0

0-1-8 Scale = 1:39.5



22-11-0 Plate Offsets (X,Y)--[1:Edge,0-1-8], [8:0-3-0,Edge], [9:0-3-0,0-0-0], [23:0-3-0,Edge] (loc) LOADING (psf) SPACING-DEFL. I/def L/d **PLATES GRIP** TCLL 40.0 Plate Grip DOL 1.00 TC 0.18 Vert(LL) -0.27 22 >999 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 ВС 0.35 Vert(CT) -0.3722 >739 360 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr NO WB 0.72 Horz(CT) 0.04 17 n/a n/a BCDL Code IRC2015/TPI2014 5.0 FT = 20%F. 11%E Matrix-S Weight: 181 lb

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3(flat)

> (size) 28=0-3-8, 17=0-3-8 Max Grav 28=1055(LC 1), 17=1347(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2180/0, 3-4=-3881/0, 4-5=-3881/0, 5-7=-4998/0, 7-8=-5729/0, 8-9=-5729/0,

9-10=-5729/0, 10-12=-5431/0, 12-13=-4579/0, 13-14=-4579/0, 14-15=-2828/0

27-28=0/1293, 26-27=0/3117, 25-26=0/4562, 23-25=0/5429, 22-23=0/5729, 20-22=0/5692, BOT CHORD

19-20=0/5126, 18-19=0/4041, 17-18=0/1692

2-28=-1599/0, 2-27=0/1176, 3-27=-1240/0, 3-26=0/990, 5-26=-883/0, 5-25=0/577, WFBS

7-25=-583/0, 7-23=0/754, 8-23=-330/0, 15-17=-2092/0, 15-18=0/1507, 14-18=-1605/0,

14-19=0/697, 12-19=-709/0, 12-20=0/404, 10-20=-345/0, 10-22=-350/393

NOTES-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 6x6 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.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 471 lb down at 19-3-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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: 17-28=-8. 1-16=-80 Concentrated Loads (lb) Vert: 31=-419(B)



July 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/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 137 Duncans Creek 167082918 J0524-3235 F05 Floor 11 Job Reference (optional) 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Jul 24 11:20:34 2024 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

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5-8-0

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

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

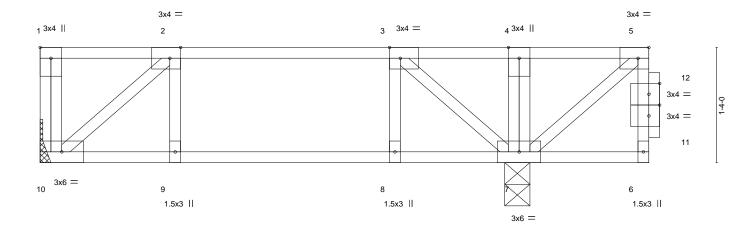
except end verticals.

10-0-0 oc bracing: 6-7.

7-2-0

1-3-0 2-5-0 0-1-8

Scale = 1:13.3



	' 5-6-8 0'-1-8							1-6-0	<u>'</u>			
Plate Offse	Plate Offsets (X,Y) [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,0-1-8], [12:0-1-8,0-1-8]											
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.05	9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.06	9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 41 lb	FT = 20%F, 11%E
						1						

BRACING-

TOP CHORD

BOT CHORD

5-6-8

LUMBER-

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

REACTIONS. (size) 10=Mechanical, 7=0-3-8

Max Uplift 10=-46(LC 4)

Max Grav 10=263(LC 3), 7=983(LC 1)

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

TOP CHORD 3-4=0/590, 4-5=0/590

WEBS 2-10=-291/263, 3-7=-777/0, 5-7=-771/0

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 46 lb uplift at joint 10.
- 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.

LOAD CASE(S) Standard

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

Vert: 6-10=-10, 1-5=-100 Concentrated Loads (lb)

Vert: 5=-400



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 137 Duncans Creek Ply 167082919 J0524-3235 F05-GR FLOOR GIRDER Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Jul 24 11:20:35 2024 Page 1 ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

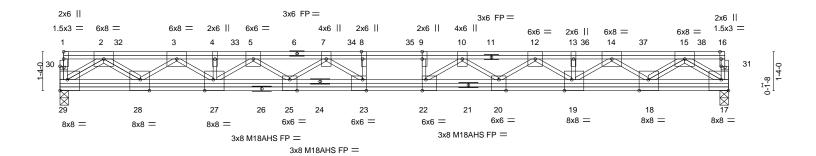
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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

1-11-0

0-1-8 Scale = 1:39.5



22-11-0 Plate Offsets (X,Y)--[8:0-3-0,Edge], [9:0-3-0,0-0-0], [16:0-3-0,Edge], [17:Edge,0-4-8], [18:0-3-12,Edge], [19:0-3-0,Edge], [20:0-3-0,Edge], [22:0-1-8,Edge], [23:0-1-8,Edge], [25:0-3-0,Edge], [27:0-3-8,Edge], [28:0-3-12,Edge], [29:Edge,0-4-8], [30:0-1-8,0-0-8], [31:0-1-8,0-0-8] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d **PLATES GRIP TCLL** 40.0 Plate Grip DOL 1.00 TC 0.43 Vert(LL) -0.47 22-23 >575 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 вс 0.47 Vert(CT) -0.61 22-23 >449 360 M18AHS 186/179 WB **BCLL** 0.0 Rep Stress Incr NO 0.85 Horz(CT) 0.06 17 n/a n/a Code IRC2015/TPI2014 FT = 20%F 11%F BCDI 5.0 Matrix-S Weight: 221 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP 2400F 2.0E(flat) 2x4 SP 2400F 2.0E(flat)

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

REACTIONS. (size) 29=0-3-8, 17=0-3-8

Max Grav 29=1944(LC 1), 17=2057(LC 1)

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

TOP CHORD $2\text{-}3\text{=-}4386/0,\ 3\text{-}4\text{=-}7711/0,\ 4\text{-}5\text{=-}7711/0,\ 5\text{-}7\text{=-}9847/0,\ 7\text{-}8\text{=-}10951/0,\ 8\text{-}9\text{=-}10951/0,\ 8\text{-}9\text{=-}$ 9-10=-10951/0, 10-12=-9842/0, 12-13=-7756/0, 13-14=-7756/0, 14-15=-4426/0

28-29=0/2577, 27-28=0/6317, 25-27=0/9050, 23-25=0/10610, 22-23=0/10951,

20-22=0/10588. 19-20=0/9055. 18-19=0/6343. 17-18=0/2627

WEBS 2-29=-3209/0, 2-28=0/2387, 3-28=-2445/0, 3-27=0/1766, 5-27=-1697/0, 5-25=0/1029,

7-25=-1011/42, 7-23=-124/615, 8-23=-294/12, 15-17=-3265/0, 15-18=0/2373, 14-18=-2429/0, 14-19=0/1790, 12-19=-1645/0, 12-20=0/1016, 10-20=-987/27,

10-22=-145/649, 9-22=-317/32

NOTES-

BOT CHORD

- 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) 247 lb down and 125 lb up at 2-0-4, 247 lb down and 125 lb up at 4-0-4, 247 lb down and 125 lb up at 6-0-4, 247 lb down and 125 lb up at 8-0-4, 229 lb down and 125 lb up at 10-0-4, 201 lb down and 125 lb up at 12-0-4, 247 lb down and 125 lb up at 14-0-4, 247 lb down and 125 lb up at 16-0-4, 247 lb down and 125 lb up at 18-0-4, and 247 lb down and 125 lb up at 20-0-4, and 250 lb down and 115 lb up at 22-0-4 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: 17-29=-8, 1-16=-79

Concentrated Loads (lb)

Vert: 3=-184(F) 12=-184(F) 10=-184(F) 6=-184(F) 32=-184(F) 33=-184(F) 34=-184(F) 35=-184(F) 36=-184(F) 37=-184(F) 38=-196(F)



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

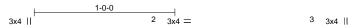
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 137 Duncans Creek 167082920 J0524-3235 F06-GR FLOOR GIRDER Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Jul 24 11:20:35 2024 Page 1 ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:8.2

FT = 20%F, 11%E

Weight: 16 lb

Structural wood sheathing directly applied or 2-6-0 oc purlins,

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

except end verticals.

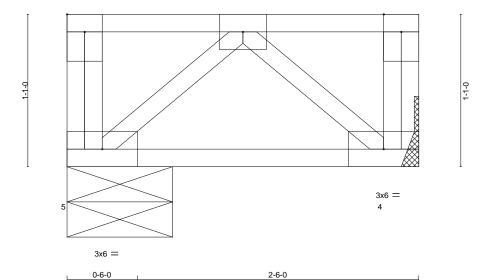


Plate Offsets (X,Y)--[1:Edge,0-1-8] LOADING (psf) SPACING-DEFL. L/d **PLATES** GRIP 1-7-3 CSI. in (loc) I/defI Plate Grip DOL 1.00 244/190 TCLL 40.0 TC 0.05 Vert(LL) 0.00 5 480 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.12 Vert(CT) -0.00 4-5 >999 360 **BCLL** 0.0 Rep Stress Incr NO WB 0.16 Horz(CT) 0.00 4 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

Matrix-P

LUMBER-

BCDL

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

5.0

REACTIONS. (size) 5=0-9-0, 4=Mechanical Max Grav 5=483(LC 1), 4=483(LC 1)

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

Code IRC2015/TPI2014

BOT CHORD 4-5=0/509

WEBS 2-4=-669/0, 2-5=-669/0

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) 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.

LOAD CASE(S) Standard

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

Vert: 4-5=-8, 1-3=-80 Concentrated Loads (lb) Vert: 2=-769



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

Job Truss Truss Type Qty Ply Lot 137 Duncans Creek 167082921 J0524-3235 F07 **FLOOR** 8 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

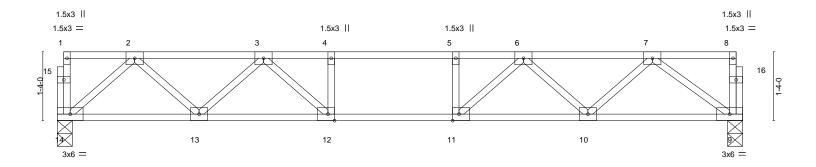
8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Jul 24 11:20:36 2024 Page 1 ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

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

except end verticals.





			13-3-8	
Plate Offsets (X,Y)	[11:0-1-8,Edge], [12:0-1-8,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 0.36 BC 0.39 WB 0.24	DEFL. in (loc) l/defl L/d Vert(LL) -0.09 10-11 >999 480 Vert(CT) -0.11 10-11 >999 360 Horz(CT) 0.02 9 n/a n/a	PLATES GRIP MT20 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 68 lb FT = 20%F, 11%E

TOP CHORD

BOT CHORD

13-3-8

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 14=0-3-8, 9=0-3-8 Max Grav 14=568(LC 1), 9=568(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-970/0, 3-4=-1514/0, 4-5=-1514/0, 5-6=-1514/0, 6-7=-1042/0 BOT CHORD 13-14=0/608, 12-13=0/1311, 11-12=0/1514, 10-11=0/1356, 9-10=0/700 WEBS 7-9=-870/0, 7-10=0/476, 6-10=-436/0, 6-11=0/385, 2-14=-807/0, 2-13=0/503,

3-13=-475/0, 3-12=0/429

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.



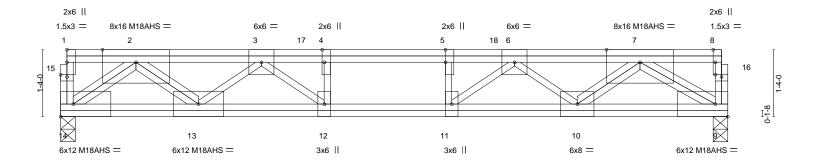


Job	Truss	Truss Type	Qty	Ply	Lot 137 Duncans Creek
					167082922
J0524-3235	F08	FLOOR	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

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		13-3-8							
Plate Offsets (X,Y) [4:0-3-0,Edge], [5:0-3-0,0-0-0], [8:0-3-0,Edge], [15:0-1-8,0-0-8], [16:0-1-8,0-0-8]									
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 0.71	Vert(LL) -0.17 11-12 >903 480	MT20 244/190					
TCDL 10.0	Lumber DOL 1.00	BC 0.94	Vert(CT) -0.24 11-12 >656 360	M18AHS 186/179					
BCLL 0.0	Rep Stress Incr NO	WB 0.63	Horz(CT) 0.06 9 n/a n/a						
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 113 lb FT = 20%F, 11%E					

13-3-8

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.

REACTIONS. (size) 14=0-3-8, 9=0-3-8

Max Grav 14=3530(LC 1), 9=3475(LC 1)

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

TOP CHORD 1-14=-256/0, 8-9=-361/0, 2-3=-5942/0, 3-4=-7920/0, 4-5=-7920/0, 5-6=-7920/0,

6-7=-6134/0

13-14=0/4146, 12-13=0/7869, 11-12=0/7920, 10-11=0/7796, 9-10=0/4605 BOT CHORD

WEBS $3-13=-2504/0,\ 6-10=-2159/0,\ 6-11=-29/336,\ 2-14=-5260/0,\ 2-13=0/2425,\ 7-10=0/2052,$

7-9=-5527/0

NOTES-

- 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) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 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.

LOAD CASE(S) Standard

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

Vert: 9-14=-8, 1-17=-726, 17-18=-80, 8-18=-726



July 26,2024



Job Truss Truss Type Qty Ply Lot 137 Duncans Creek 167082923 J0524-3235 F09 Floor 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

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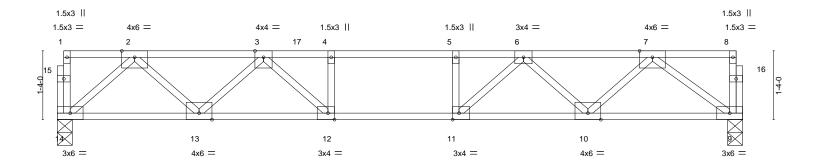


Plate Offsets (X,Y)--[11:0-1-8,Edge], [12:0-1-8,Edge] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP TCLL 40.0 Plate Grip DOL 1.00 TC 0.82 Vert(LL) -0.17 12-13 >922 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 1.00 Vert(CT) -0.22 12-13 >700 360 BCLL 0.0 Rep Stress Incr NO WB 0.72 Horz(CT) 0.05 n/a n/a BCDL Code IRC2015/TPI2014 Weight: 68 lb FT = 20%F, 11%E 5.0 Matrix-S

LUMBER-**BRACING-**

TOP CHORD 2x4 SP 2400F 2.0E(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.

REACTIONS. (size) 14=0-3-8, 9=0-3-8

Max Grav 14=1243(LC 1), 9=1294(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2450/0, 3-4=-4051/0, 4-5=-4051/0, 5-6=-4051/0, 6-7=-2753/0 **BOT CHORD** 13-14=0/1359, 12-13=0/3506, 11-12=0/4051, 10-11=0/3824, 9-10=0/1670 2-14=-1806/0, 2-13=0/1518, 3-13=-1468/0, 3-12=0/896, 4-12=-578/0, 7-9=-2078/0, WEBS

7-10=0/1507, 6-10=-1489/0, 6-11=0/481

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) 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.

LOAD CASE(S) Standard

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

Vert: 9-14=-8, 1-8=-80 Concentrated Loads (lb) Vert: 6=-700 17=-700





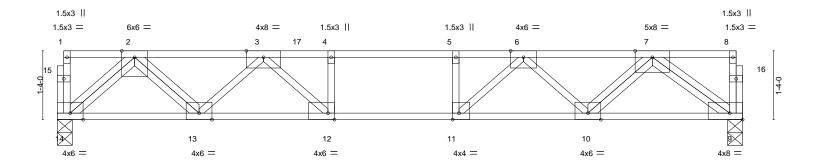


Job Truss Truss Type Qty Ply Lot 137 Duncans Creek 167082924 F10 J0524-3235 **FLOOR** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

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		13-3-8	<u> </u>							
Plate Offsets (X,Y)	Plate Offsets (X,Y) [9:Edge,0-1-8], [11:0-1-8,Edge], [12:0-1-8,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 0.88	Vert(LL) -0.19 11 >834 480	MT20 244/190						
TCDL 10.0	Lumber DOL 1.00	BC 0.73	Vert(CT) -0.25 11 >627 360							
BCLL 0.0	Rep Stress Incr NO	WB 0.78	Horz(CT) 0.06 9 n/a n/a							
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 78 lb FT = 20%F, 11%E						

13-3-8

LUMBER-**BRACING-**

2x4 SP 2400F 2.0E(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 5-0-0 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) 14=0-3-8, 9=0-3-8

Max Grav 14=1658(LC 1), 9=1741(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3286/0, 3-4=-5920/0, 4-5=-5920/0, 5-6=-5920/0, 6-7=-3766/0 **BOT CHORD** 13-14=0/1834, 12-13=0/4830, 11-12=0/5920, 10-11=0/5346, 9-10=0/2258

WEBS

2-14=-2439/0, 2-13=0/2059, 3-13=-2110/0, 3-12=0/1633, 4-12=-1038/0, 7-9=-2818/0,

7-10=0/2128, 6-10=-2159/0, 6-11=0/949, 5-11=-590/0

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) 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.

LOAD CASE(S) Standard

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

Vert: 9-14=-8, 1-17=-80, 6-17=-280, 6-8=-80

Concentrated Loads (lb)

Vert: 6=-700 17=-700





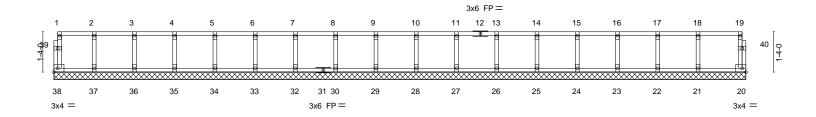
Job	Truss	Truss Type	Qty	Ply	Lot 137 Duncans Creek
10504 0005	FIGNA	ELOOD CURRORTER CARL	_		167082925
J0524-3235	FKW1	FLOOR SUPPORTED GABL	1	1	Job Reference (optional)
					Job Reference (optional)

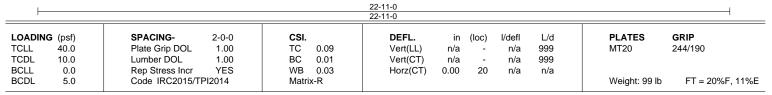
Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Jul 24 11:20:37 2024 Page 1

ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-<u>1</u>-8

0-<u>1</u>-8 Scale = 1:38.2





LUMBER-BRACING-

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

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

except end verticals.

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

REACTIONS. All bearings 22-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 38, 20, 37, 36, 35, 34, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





Job	Truss	Truss Type	Qty	Ply	Lot 137 Duncans Creek
					167082926
J0524-3235	FKW2	Floor Supported Gable	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Jul 24 11:20:38 2024 Page 1 ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

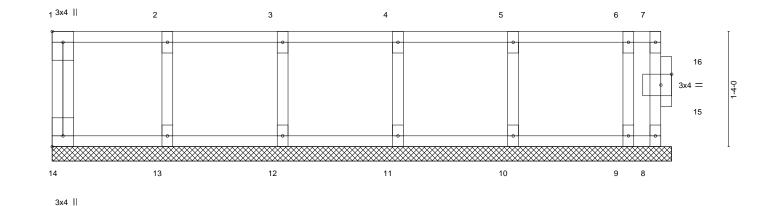
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-1-8

Scale = 1:13.3



						7-2-0 7-2-0						———
Plate Offs	sets (X,Y)	[1:Edge,0-1-8], [14:Edge	,0-1-8], [15:0-1	-8,0-1-8]								
LOADING TCLL TCDL BCLL	(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	0.05 0.01 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL	5.0	Code IRC2015/TF		Matri		11012(01)	0.00		II/a	II/a	Weight: 35 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)

OTHERS 2x4 SP No.3(flat)

REACTIONS. All bearings 7-2-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.





Job Truss Truss Type Qty Lot 137 Duncans Creek 167082927 FLOOR SUPPORTED GABL J0524-3235 FKW3 Job Reference (optional)
8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Jul 24 11:20:38 2024 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

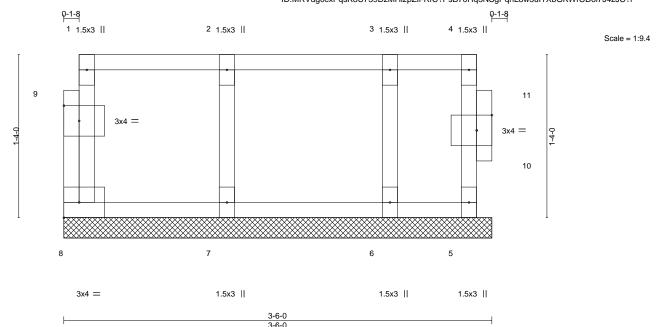


Plate Off	sets (X,Y)	[9:0-1-8,0-1-8], [10:0-1-8,0	0-1-8]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2015/TP	12014	Matri	x-R						Weight: 19 lb	FT = 20%F, 11%E

LUMBER-

2x4 SP No.1(flat) TOP CHORD 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 3-6-0 oc purlins,

except end verticals.

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

REACTIONS. All bearings 3-6-0.

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

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

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.





818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 137 Duncans Creek
					167082928
J0524-3235	FKW4	Floor Supported Gable	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc,

0118

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ID:MRVdg0cxPqsK8U739DzMHizpZII-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

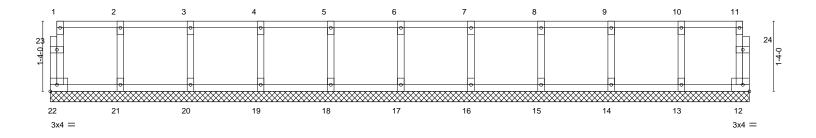
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0118

Scale = 1:21.9



13-3-8 13-3-8									
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 0.01	\ '	in (loc) n/a - n/a -	I/defl L/d n/a 999 n/a 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	0.00 12	n/a n/a	Weight: 60 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 13-3-8.

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

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

NOTES-

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.





818 Soundside Road Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

₹

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

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

LATERAL BRACING LOCATION



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

BEARING



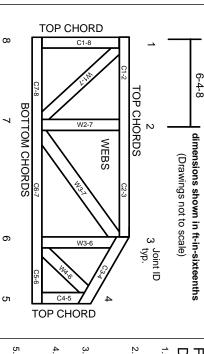
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

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

DSB-22:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

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

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the 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.