

RE: J0321-1338

Lot 151 Forest Oaks

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0321-1338

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

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

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

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

This package includes 13 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E15366657	ET1	3/3/2021
2	E15366658	ET2	3/3/2021
3	E15366659	F1	3/3/2021
4	E15366660	F2	3/3/2021
5	E15366661	F2A	3/3/2021
6	E15366662	F3	3/3/2021
7	E15366663	F4	3/3/2021
8	E15366664	F4A	3/3/2021
9	E15366665	F5	3/3/2021
10	E15366666	F6	3/3/2021
11	E15366667	F7	3/3/2021
12	E15366668	FG1	3/3/2021
13	E15366669	FG2	3/3/2021

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

Truss Engineering Co. under my direct supervision

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

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



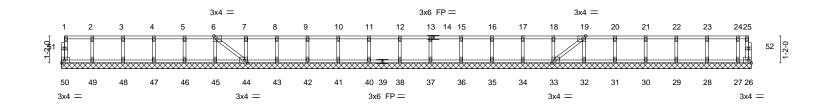
March 03, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 151 Forest Oaks
					E15366657
J0321-1338	ET1	Floor Supported Gable	1	1	
					Inh Reference (ontional)

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

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Feb 1 12:12:37 2021 Page 1 ID:52Teu6pVqhXamGD1jN0kr4yxDe9-_CnfrluIrp9UEXe24XJINQC?7RKi6tS3eDiaT1zpW3e

Scale = 1:50.0



Dieta Officeta (V.V.)	[C ₁ O ₁ A ₁ D Ed ₂ a ₂] [4O ₁ O ₁ A ₁ D Ed ₂ a ₂] [2O ₁ O ₁ A ₂	0 Edmal [44:0 4 0 Edma	9-11-0		
Plate Offsets (X,Y)	[6:0-1-8,Edge], [19:0-1-8,Edge], [33:0-1	-8,Eagej, [44:0-1-8,Eage]			
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 0.06	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 26	n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 128 lb FT = 20%F, 11%E

29-11-0

LUMBER-**BRACING-**TOP CHORD TOP CHORD 2x4 SP No 1(flat) Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals. 2x4 SP No.3(flat) BOT CHORD WFBS Rigid ceiling directly applied or 6-0-0 oc bracing, Except: **OTHERS** 2x4 SP No.3(flat) 10-0-0 oc bracing: 49-50,48-49,47-48,46-47,45-46,44-45.

REACTIONS. All bearings 29-11-0.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 26 Max Grav All reactions 250 lb or less at joint(s) 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26.
- 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.



February 1,2021



Job	Truss	Truss Type	Qty	Ply	Lot 151 Forest Oaks	٦
					E15366658	į
J0321-1338	ET2	Floor Supported Gable	1	1	l	
					Job Reference (optional)	

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Feb 1 12:12:38 2021 Page 1 ID:52Teu6pVqhXamGD1jN0kr4yxDe9-SOL235vwc6HLshDFeEq_vdlArrgxrKhDttS7?TzpW3d

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

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

except end verticals.

0-11-8

Scale = 1:41.6

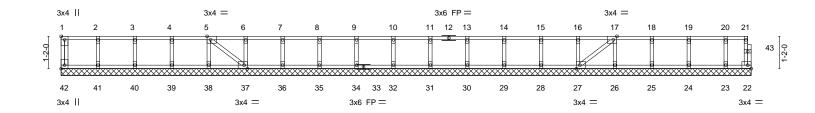


Plate Offsets (X,Y)	Plate Offsets (X,Y) [1:Edge,0-1-8], [5:0-1-8,Edge], [17:0-1-8,Edge], [27:0-1-8,Edge], [42:Edge,0-1-8]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.06 BC 0.01 WB 0.03 Matrix-S	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 244/1 Vert(CT) n/a - n/a 999 Horz(CT) -0.00 27 n/a n/a Weight: 108 lb FT :	90 = 20%F, 11%E	

BRACING-TOP CHORD

BOT CHORD

24-11-0

OTHERS 2x4 SP No.3(flat) REACTIONS. All bearings 24-11-0.

2x4 SP No 1(flat)

2x4 SP No.1(flat)

2x4 SP No.3(flat)

(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 40, 39, 38, 37, 36, 35, 34, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23

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

NOTES-

LUMBER-

WFBS

TOP CHORD

BOT CHORD

- 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	Ply	Lot 151 Forest Oaks
					E15366659
J0321-1338	F1	Floor	7	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Feb 1 12:12:38 2021 Page 1 ID:52Teu6pVqhXamGD1jN0kr4yxDe9-SOL235vwc6HLshDFeEq_vdlzdrSlr82DttS7?TzpW3d

29-11-0

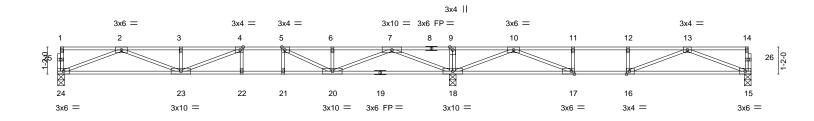
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 2-2-0 oc bracing.

except end verticals.

0-1-8





<u>'</u>	17-0-8		<u>'</u>		12-	10-8	<u>'</u>
Plate Offsets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge], [16:0-1-8	3,Edge], [17:0-1-8,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL . in	(loc) I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.84	Vert(LL) -0.27	22-23 >754	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.91	Vert(CT) -0.37	15-16 >414	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.78	Horz(CT) 0.06	15 n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	` ,			Weight: 143 lb	FT = 20%F, 11%E
							*

BRACING-TOP CHORD

LUMBER-TOP CHORD

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

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

BOT CHORD

17-0-8

Max Grav 24=851(LC 10), 15=627(LC 4), 18=1876(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2928/0, 3-4=-2928/0, 4-5=-3143/0, 5-6=-2422/0, 6-7=-2422/0, 7-9=0/1834,

9-10=0/1834, 10-11=-1704/68, 11-12=-1704/68, 12-13=-1704/68

BOT CHORD 23-24=0/1831, 22-23=0/3143, 21-22=0/3143, 20-21=0/3143, 18-20=-179/1010,

 $17\text{-}18\text{=-}674/776,\ 16\text{-}17\text{=-}68/1704,\ 15\text{-}16\text{=}0/1267$

(size) 24=0-3-8, 15=0-3-8, 18=0-3-8

 $9\text{-}18\text{=-}298/0,\ 2\text{-}24\text{=-}1963/0,\ 2\text{-}23\text{=-}0/1183,\ 3\text{-}23\text{=-}320/0,\ 4\text{-}23\text{=-}443/238,\ 7\text{-}18\text{=-}2374/0,}$ WFBS

 $7\text{-}20\text{=}0/1634, \, 5\text{-}20\text{=-}1073/0, \, 13\text{-}15\text{=-}1357/0, \, 13\text{-}16\text{=-}181/471, \, 10\text{-}18\text{=-}1812/0, \, 13\text{-}16\text{=-}181/471, \, 10\text{-}18\text{=-}1812/0, \, 13\text{-}16\text{=-}181/471, \, 10\text{-}18\text{=-}1812/0, \, 13\text{-}16\text{=-}181/471, \, 10\text{-}18\text{=-}181/471, \, 10\text{-}181/471, \, 10\text$

10-17=0/1285, 11-17=-392/0

NOTES-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



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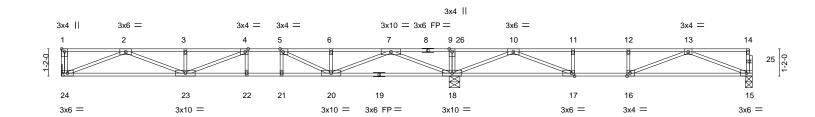


Job	Truss	Truss Type	Qty	Ply	Lot 151 Forest Oaks
J0321-1338	E2	Floor	1	1	E15366660
30321-1336	12	1 1001	'	'	Job Reference (optional)

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ID:52Teu6pVqhXamGD1jN0kr4yxDe9-wauQGRvYNQPCTrnRCyLDSrH8TEqNacXM6XBhXwzpW3c 2-3-0 2-6-0 1-4-8 2-0-0

Scale = 1:49.4



	16-9-0		0-1-4	12-	9-4	<u> </u>
Plate Offsets (X,Y)	[1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8	,Edge], [16:0-1-8,Edge], [17:0-1-8,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.84	Vert(LL) -0.25 15-16	>619 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.83	Vert(CT) -0.37 15-16	>416 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.06 15	n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 143 lb	FT = 20%F, 11%E

LUMBER-TOP CHORD

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

WFBS 2x4 SP No.3(flat)

BOT CHORD

BRACING-

16-10-4

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

29-7-8

except end verticals.

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

REACTIONS.

(size) 24=Mechanical, 18=0-5-8, 15=0-3-8

Max Grav 24=841(LC 10), 18=1861(LC 1), 15=626(LC 4)

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

2-3=-2845/0, 3-4=-2845/0, 4-5=-3033/0, 5-6=-2366/0, 6-7=-2366/0, 7-9=0/1836, TOP CHORD

16-9-0

9-10=0/1836, 10-11=-1698/58, 11-12=-1698/58, 12-13=-1698/58

BOT CHORD 23-24=0/1793, 22-23=0/3033, 21-22=0/3033, 20-21=0/3033, 18-20=-193/990, 17-18=-659/767, 16-17=-58/1698, 15-16=0/1265

 $9 - 18 = -298/0, \ 2 - 24 = -1929/0, \ 2 - 23 = 0/1135, \ 3 - 23 = -311/0, \ 4 - 23 = -405/267, \ 7 - 18 = -2337/0, \ 2 - 24 = -1929/0, \ 2 - 24$

 $7-20=0/1602,\ 6-20=-252/17,\ 5-20=-1008/0,\ 10-18=-1811/0,\ 10-17=0/1283,\ 11-17=-391/0,\ 10-18=-1811/0,\ 10-18=-181/0,\ 10-181/0,\ 10-1$

13-15=-1354/0, 13-16=-175/468

NOTES-

WFBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) 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 151 Forest Oaks E15366661 J0321-1338 F2A Floor Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

1-3-0

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2-6-0 2-6-0 2-3-0 2-6-0

29-7-8

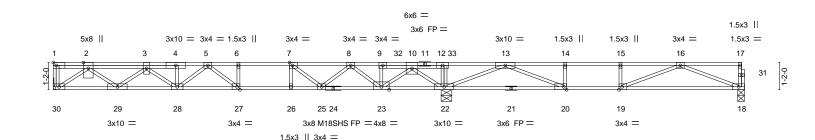
Structural wood sheathing directly applied or 5-8-9 oc purlins,

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

except end verticals.

6-0-0 oc bracing: 22-23,20-22,19-20.

Scale = 1:49.4



	16-9-0		0-1 ¹ -4	12-9-	-4	1
Plate Offsets (X,Y)	[7:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1	-8,Edge], [27:0-1-8,Edge]				
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 0.99 BC 0.79 WB 0.75 Matrix-S	DEFL. in Vert(LL) -0.27 Vert(CT) -0.38 Horz(CT) 0.06		PLATES MT20 M18SHS Weight: 156 lb	GRIP 244/190 244/190 FT = 20%F, 11%E

16-10-4

BOT CHORD

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

16-9-0

2-1-8

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

24-30: 2x4 SP 2400F 2.0E(flat)

WFBS 2x4 SP No.3(flat)

30=Mechanical, 22=0-5-8, 18=0-3-8

Max Grav 30=1013(LC 10), 22=2306(LC 1), 18=599(LC 4)

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

TOP CHORD 2-3=-2260/0, 3-4=-3438/0, 4-5=-3431/0, 5-6=-3652/0, 6-7=-3652/0, 7-8=-3031/0,

8-9=-1770/0, 9-10=-1787/0, 10-12=0/2042, 12-13=0/2081, 13-14=-1536/122,

14-15=-1536/122. 15-16=-1536/122

BOT CHORD 29-30=0/1338, 28-29=0/3160, 27-28=0/3671, 26-27=0/3652, 25-26=0/3652, 23-25=0/2512,

22-23=-136/592, 20-22=-763/498, 19-20=-122/1536, 18-19=0/1196

WEBS 12-22=-251/0, 2-30=-1643/0, 2-29=0/1171, 3-29=-1143/0, 3-28=-2/339, 10-22=-2322/0,

 $10 - 23 = 0/1584, \ 9 - 23 = -289/0, \ 8 - 23 = -1011/0, \ 13 - 22 = -1946/0, \ 8 - 25 = 0/770, \ 13 - 20 = 0/1331, \ 10 - 23 = 0/1584, \ 9 - 23 = -289/0, \ 8 - 23 = -1011/0, \ 13 - 22 = -1946/0, \ 8 - 25 = 0/770, \ 13 - 20 = 0/1331, \ 10 - 23 = 0/1584, \ 10 - 23$

14-20=-399/0, 16-18=-1281/0, 16-19=-214/367, 7-25=-950/0, 5-28=-306/7,

5-27=-317/196, 7-26=0/281

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 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.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 241 lb down at 4-1-12, and 526 lb down at 14-9-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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: 18-30=-10. 1-17=-100

Concentrated Loads (lb)

Vert: 3=-161(F) 32=-446(F)



February 1,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Design Valid to its 80 mly with win New Commercials. This design is based only upon parameters shown, and is for an individual orusining 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 151 Forest Oaks E15366662 J0321-1338 F3 Floor Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

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

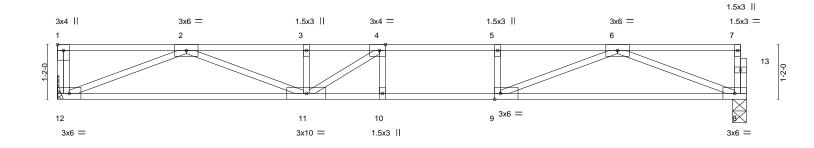
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals.

2-2-0 oc bracing: 9-10.

2-6-0 1-6-0

Scale = 1:24.6



14-8-8 14-8-8 Plate Offsets (X,Y)-- [1:Edge.0-1-8], [4:0-1-8,Edge], [9:0-1-8,Edge]

	(, -)	[::==g=;= : =]; [::= : =;==g=]; [::= : =	,==3-1		
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.67	Vert(LL) -0.25 10-11 >692 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.93	Vert(CT) -0.32 10-11 >548 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.54	Horz(CT) 0.04 8 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 71 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)

WFBS 2x4 SP No.3(flat)

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

Max Grav 12=795(LC 1), 8=789(LC 1)

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

TOP CHORD 2-3=-2594/0, 3-4=-2594/0, 4-5=-2668/0, 5-6=-2668/0 **BOT CHORD** 11-12=0/1683, 10-11=0/2668, 9-10=0/2668, 8-9=0/1678

6-8=-1799/0, 6-9=0/1124, 5-9=-313/0, 2-12=-1811/0, 2-11=0/983, 3-11=-280/22. **WEBS**

4-11=-476/198

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



February 1,2021

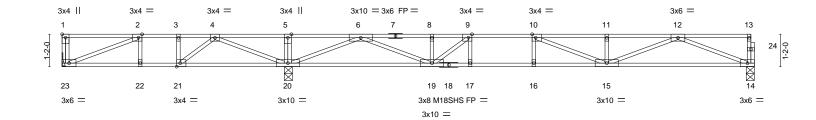
818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 151 Forest Oaks
					E15366663
J0321-1338	F4	Floor	4	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Feb 1 12:12:42 2021 Page 1 ID:52Teu6pVqhXamGD1jN0kr4yxDe9-L9aYuSyRfLonLIW0t4uw4Tvg_St7nzwpoVQL8FzpW3Z 1-3-0 1-3-0 1-3-0 2-2-0 0-<u>1</u>1-8

Scale = 1:41.5



	8-1-8 C	1-0-4	16-9-4	<u> </u>
Plate Offsets (X,Y)	[1:Edge,0-1-8], [2:0-1-8,Edge], [9:0-1-8	,Edge], [10:0-1-8,Edge], [[21:0-1-8,Edge]	
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI. TC 0.82	DEFL. in (loc) I/defl L/d Vert(LL) -0.28 15-16 >725 480	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0	Lumber DOL 1.00 Rep Stress Incr NO	BC 0.76 WB 0.72	Vert(CT) -0.38 15-16 >532 360 Horz(CT) 0.04 14 n/a n/a	M18SHS 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	,	Weight: 122 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) *Except* 14-18: 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 23=Mechanical, 20=0-3-8, 14=0-3-8

8-1-8

Max Grav 23=1871(LC 3), 20=1628(LC 1), 14=835(LC 7)

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

TOP CHORD 1-23=-1637/0, 2-3=-608/298, 3-4=-608/298, 4-5=0/1412, 5-6=0/1412, 6-8=-2318/0,

8-9=-2318/0, 9-10=-2967/0, 10-11=-2852/0, 11-12=-2852/0 $22 - 23 = -298/608, \ 21 - 22 = -298/608, \ 20 - 21 = -649/430, \ 19 - 20 = 0/960, \ 17 - 19 = 0/2967,$

16-17=0/2967, 15-16=0/2967, 14-15=0/1792 WEBS

5-20=-294/0, 2-23=-652/319, 4-20=-1233/0, 4-21=0/613, 3-21=-259/0, 12-14=-1921/0, 12-15=0/1144, 11-15=-315/0, 6-20=-2275/0, 6-19=0/1516, 10-15=-425/183,

8-1,12

9-19=-1018/0, 9-17=0/264

NOTES-

BOT CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 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: 14-23=-10, 1-13=-100 Concentrated Loads (lb)

Vert: 1=-1500



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

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

except end verticals.

February 1,2021

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



Job	Truss	Truss Type	Qty	Ply	Lot 151 Forest Oaks
					E15366664
J0321-1338	F4A	Floor Girder	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Feb 1 12:12:43 2021 Page 1 ID:52Teu6pVqhXamGD1jN0kr4yxDe9-pM8x6oy3QfwdyS5CRoQ9cgSoDsA9WOUy099ughzpW3Y

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

2-0-0 1-3-0

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

Scale = 1:41.5

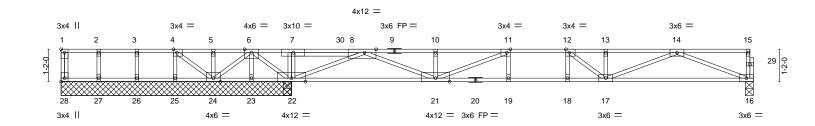


Plate Offsets (X,Y)-	8-0-0 [1:Edge,0-1-8], [4:0-1-8,l		0-3-8),Edge], [11:0-	1-8,Edge],	[12:0-1-8,Edge], [2	8:Edge,0		6-7-8			
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.19	18	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.26	18	>767	360		
BCLL 0.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.03	16	n/a	n/a		
BCDL 5.0	Code IRC2015/T	PI2014	Matrix	-S						Weight: 127 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

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

2x4 SP No.1(flat)

8-0-0

REACTIONS. All bearings 8-3-8 except (jt=length) 16=0-3-8.

except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 23-24,22-23,21-22.

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

24-11-0

(lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 23=-486(LC 4), 24=-309(LC 4), 25=-241(LC 4) Max Grav All reactions 250 lb or less at joint(s) 28, 24, 25, 26, 27 except 22=2699(LC 1), 22=2699(LC 1), 16=762(LC 4)

8,3,8

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

4-5=0/379, 5-6=0/379, 6-7=0/2907, 7-8=0/2890, 8-10=-1625/0, 10-11=-1618/0, TOP CHORD

11-12=-2510/0, 12-13=-2453/0, 13-14=-2453/0

BOT CHORD 23-24=-1235/0, 22-23=-1235/0, 21-22=-255/110, 19-21=0/2510, 18-19=0/2510,

17-18=0/2510, 16-17=0/1613

WEBS 6-22=-2060/0, 6-23=0/458, 6-24=0/1092, 4-24=-476/0, 4-25=-7/251, 14-16=-1728/0, 14-17=0/907, 13-17=-257/13, 8-22=-2985/0, 8-21=0/1874, 10-21=-261/28, 11-21=-970/0,

NOTES-

LUMBER-

TOP CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 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 486 lb uplift at joint 23, 309 lb uplift at joint 24 and 241 lb uplift at joint 25.
- 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) 491 lb down at 10-0-12 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: 16-28=-10, 1-15=-100

Concentrated Loads (lb) Vert: 30=-411(B)



February 1,2021

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



Job	Truss	Truss Type	Qty	Ply	Lot 151 Forest Oaks
J0321-1338	E5	Floor	6	1	E15366665
30321-1336	F5	Flooi	0	'	Job Reference (optional)

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

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Feb 1 12:12:44 2021 Page 1 ID:52Teu6pVqhXamGD1jN0kr4yxDe9-HYiJJ8zhBy2UacgO_VxO9u_2YFZgFtP5FpvSC7zpW3X

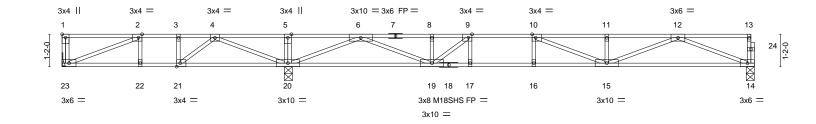
1-3-0 2-2-0 0-<u>1</u>1-8

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

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

except end verticals.

Scale = 1:41.5



	0-1-0	J-U- 4	16-9-4	
Plate Offsets (X,Y)	[1:Edge,0-1-8], [2:0-1-8,Edge], [9:0-1-8	,Edge], [10:0-1-8,Edge],	[21:0-1-8,Edge]	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.69	Vert(LL) -0.28 15-16 >725 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.69	Vert(CT) -0.38 15-16 >532 360	M18SHS 244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.72	Horz(CT) 0.04 14 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 122 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.1(flat)

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

14-18: 2x4 SP 2400F 2.0E(flat)

8-1-8

WEBS 2x4 SP No.3(flat)

(size) 23=Mechanical, 20=0-3-8, 14=0-3-8

Max Uplift 23=-46(LC 4)

Max Grav 23=371(LC 3), 20=1628(LC 1), 14=834(LC 7)

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

TOP CHORD 2-3=-607/298, 3-4=-607/298, 4-5=0/1412, 5-6=0/1412, 6-8=-2318/0, 8-9=-2318/0,

> 9-10=-2967/0, 10-11=-2852/0, 11-12=-2852/0 22-23=-298/607, 21-22=-298/607, 20-21=-649/430, 19-20=0/960, 17-19=0/2967,

16-17=0/2967, 15-16=0/2967, 14-15=0/1792 WEBS 5-20=-294/0, 2-23=-651/319, 4-20=-1233/0, 4-21=0/613, 3-21=-259/0, 12-14=-1921/0,

12-15=0/1144, 11-15=-315/0, 6-20=-2275/0, 6-19=0/1516, 10-15=-425/183,

8-1,12

9-19=-1018/0, 9-17=0/264

NOTES-

REACTIONS.

BOT CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 23.
- 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.
- 8) CAUTION, Do not erect truss backwards.



February 1,2021

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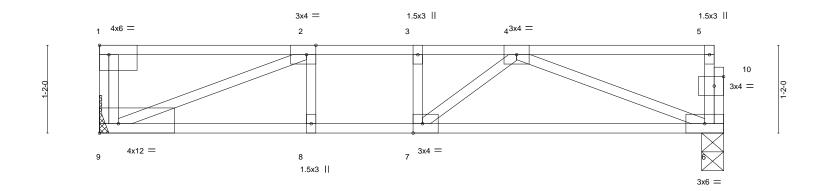
Job Truss Truss Type Qty Ply Lot 151 Forest Oaks E15366666 J0321-1338 F6 2 Floor Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Feb 1 12:12:44 2021 Page 1 ID:52Teu6pVqhXamGD1jN0kr4yxDe9-HYiJJ8zhBy2UacgO_VxO9u_6fFfsF?s5FpvSC7zpW3X

2-6-0 1-3-8 0_1-8

Scale = 1:15.3



8-3-8 8-3-8 [1:Edge.0-1-8], [2:0-1-8.Edge], [7:0-1-8.Edge], [9:Edge.0-1-8], [10:0-1-8.0-1-8]

Frate Offsets (X, 1) [1.Euge,0-1-0], [2.0-1-0,Euge], [7.0-1-0,Euge], [3.Euge,0-1-0], [10.0-1-0,0-1-0]												
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	0.42	Vert(LL)	-0.05	6-7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.29	Vert(CT)	-0.08	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code IRC2015/TP	I2014	Matrix	k-S	` ´					Weight: 43 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)

WFBS 2x4 SP No.3(flat)

REACTIONS. (size) 9=Mechanical, 6=0-3-8 Max Grav 9=4092(LC 1), 6=436(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-9=-3767/0, 2-3=-836/0, 3-4=-836/0 **BOT CHORD** 8-9=0/836, 7-8=0/836, 6-7=0/794

WEBS 2-9=-896/0, 4-6=-848/0

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) 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)

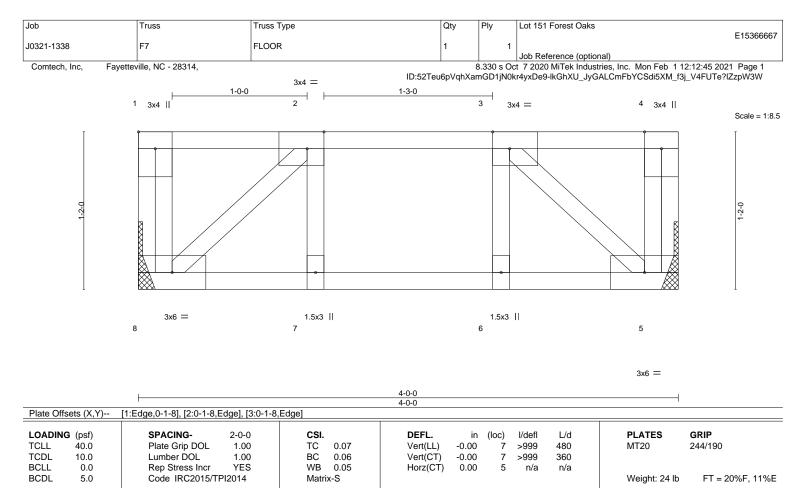
Vert: 6-9=-10, 1-5=-100 Concentrated Loads (lb) Vert: 1=-3650



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

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

except end verticals.



BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

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

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

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

Max Grav 8=206(LC 1), 5=206(LC 1)

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

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



Structural wood sheathing directly applied or 4-0-0 oc purlins,

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

except end verticals.

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



Job Truss Truss Type Qty Ply Lot 151 Forest Oaks E15366668 J0321-1338 FG1 Floor Girder Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Feb 1 12:12:45 2021 Page 1 Comtech, Inc. ID:52Teu6pVqhXamGD1jN0kr4yxDe9-lkGhXU_JyGALCmFbYCSdi5XN7f2V_UoFUTe?IZzpW3W 3x6 =3x6 || 1-3-0 0-1-8 Scale = 1:8.5 9 3x4 =1.5x3 || 1.5x3 || 3x6 =8 3x6 = 3-10-0 3-10-0 Plate Offsets (X,Y)--[9:0-1-8,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** Plate Grip DOL 1.00 TC 0.06 Vert(LL) -0.00 >999 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 BC 0.08 Vert(CT) -0.00 >999 360

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

5

n/a

except end verticals.

n/a

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

Structural wood sheathing directly applied or 3-10-0 oc purlins,

LUMBER-

BCLL

BCDL

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

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

0.0

5.0

REACTIONS. (size) 8=Mechanical, 5=0-3-8 Max Grav 8=261(LC 1), 5=234(LC 1)

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

TOP CHORD 2-3=-257/0

BOT CHORD 7-8=0/257, 6-7=0/257, 5-6=0/257

WFBS 3-5=-307/0, 2-8=-311/0

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.

Rep Stress Incr

Code IRC2015/TPI2014

- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 135 lb down at 1-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

WB

Matrix-S

0.07

7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

NO

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 5-8=-10, 1-4=-100 Concentrated Loads (lb)

Vert: 2=-106(F)



FT = 20%F, 11%E

Weight: 28 lb

February 1,2021

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Job Truss Truss Type Qty Ply Lot 151 Forest Oaks E15366669 J0321-1338 FG2 Floor Girder Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Mon Feb 1 12:12:46 2021 Page 1 Comtech, Inc. ID:52Teu6pVqhXamGD1jN0kr4yxDe9-Dxp3kq?xjalCpwqn6wzsEJ4UL3NTjwPOj7OYH0zpW3V 3x6 =3x6 || 1-0-0 0-9-8 4 Scale = 1:8.6 1-2-0 3x6 = 1.5x3 || 1.5x3 || 5 8

3-6-8

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.22	Vert(LL)	-0.00	7 >999	480	MT20	244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.16	Vert(CT)	-0.01	7 >999	360		
BCLL	0.0	Rep Stress Incr NO	WB 0.18	Horz(CT)	0.00	5 n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 27 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

(size) 8=Mechanical, 5=Mechanical

Max Grav 8=546(LC 1), 5=511(LC 1)

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

TOP CHORD 2-3=-590/0

BOT CHORD 7-8=0/590, 6-7=0/590, 5-6=0/590 **WEBS** 2-8=-765/0, 3-5=-765/0

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) 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) 720 lb down at 1-8-4 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: 5-8=-10, 1-4=-100 Concentrated Loads (lb) Vert: 9=-695(B)



3x6 =

Structural wood sheathing directly applied or 3-6-8 oc purlins,

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

except end verticals.

February 1,2021



Symbols

PLATE LOCATION AND ORIENTATION



offsets are indicated. Center plate on joint unless x, y and fully embed teeth 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 20/20 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 where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-89: 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-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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

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 bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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

4.

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication

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- 9 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
- 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
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 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.