

RE: J0822-3964

Ben Stout/Lot 9 Liberty Meadows/Harnett

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0822-3964

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

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4

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

This package includes 11 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	150350606	F01	2/22/2022
2	150350607	F02	2/22/2022
3	150350608	F02G	2/22/2022
4	150350609	F03	2/22/2022
5	150350610	F03G	2/22/2022
6	150350611	F04	2/22/2022
7	150350612	F05	2/22/2022
8	150350613	F06G	2/22/2022
9	150350614	F07G	2/22/2022
10	150350615	KW1	2/22/2022
11	150350616	KW2	2/22/2022

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

Truss Engineering Co. under my direct supervision

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

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2022

North Carolina COA: C-0844

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



February 22, 2022

Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 9 Liberty Meadows/Harnett
					I50350606
J0822-3964	F01	Floor	6	1	
					Job Reference (optional)

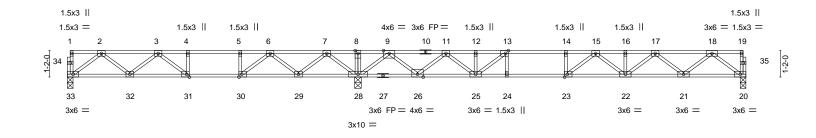
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:15 2022 Page 1 ID:IFcNqFeBMDbEpQt48prlavzQQxj-1IBg41nZft86UWOHfK5dM5RGp0Y6ceSpuGtN0sziurk

0-1-8

HI-3-0 2-2-4

2-5-12

0-1-8 Scale = 1:50.8



	12-9-12	ı	17-1-4	
Plate Offsets (X,Y)	[13:0-1-8,Edge], [23:0-1-8,Edge], [30:0-	-1-8,Edge], [31:0-1-8,Edge	ge]	
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI. TC 0.90	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.28 22-23 >731 480 MT20 244/190	
TCDL 10.0 BCLL 0.0 BCDL 5.0	Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	BC 0.73 WB 0.57 Matrix-S	Vert(CT) -0.38 22-23 >536 360 Horz(CT) 0.05 20 n/a n/a Weight: 148 lb FT = 2	20%F, 11%E

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

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

20-27: 2x4 SP 2400F 2.0E(flat)

WFBS 2x4 SP No.3(flat) **BRACING-**

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

except end verticals.

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

29-11-0

REACTIONS. (size) 33=0-3-0, 28=0-3-8, 20=0-3-0

Max Grav 33=617(LC 3), 28=1881(LC 1), 20=848(LC 4)

12-9-12

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

TOP CHORD 2-3=-1184/0, 3-4=-1629/80, 4-5=-1629/80, 5-6=-1629/80, 6-7=-630/669, 7-8=0/1791,

8-9=0/1791 9-11=-859/222 11-12=-2275/0 12-13=-2275/0 13-14=-3038/0

14-15=-3038/0, 15-16=-2844/0, 16-17=-2844/0, 17-18=-1746/0 32-33=0/759, 31-32=0/1549, 30-31=-80/1629, 29-30=-402/1205, 28-29=-928/54, BOT CHORD

26-28=-580/0, 25-26=0/1704, 24-25=0/3038, 23-24=0/3038, 22-23=0/3081, 21-22=0/2420,

20-21=0/1055

 $2 - 33 = -950/0, \ 2 - 32 = 0/553, \ 3 - 32 = -476/42, \ 3 - 31 = -252/101, \ 7 - 28 = -1273/0, \ 7 - 29 = 0/842, \ 3 - 31 = -252/101, \ 7 - 28 = -1273/0, \ 7 - 29 = 0/842, \ 3 - 31 = -252/101, \ 7 - 28 = -1273/0, \ 7 - 29 = 0/842, \ 3 - 31 = -252/101, \ 7 - 28 = -1273/0, \ 7 - 29 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 20 = 0/842, \ 7 - 2$ 6-29=-873/0, 6-30=0/854, 5-30=-382/0, 9-28=-1616/0, 9-26=0/1202, 11-26=-1148/0,

11-25=0/769, 18-20=-1321/0, 18-21=0/900, 17-21=-877/0, 17-22=0/541, 15-22=-303/0,

15-23=-336/242, 13-25=-1203/0, 13-24=0/287

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.



February 22,2022



Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 9 Liberty Meadows/Harnett
J0822-3964	F02	Floor Girder	1	1	150350607
					lob Reference (optional)

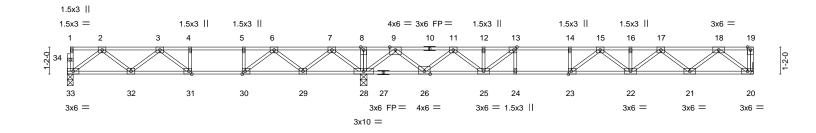
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:17 2022 Page 1 ID:IFcNqFeBMDbEpQt48prlavzQQxj-z7JQVjoqBVOqkqYgnl85RWXdkpEU4Y46MaMU5Iziuri

0-1-8

H| 1-3-0 2-2-4

2-2-12

Scale = 1:49.8



	12-9-12	ı ı	16-10-4	<u>'</u>
Plate Offsets (X,Y)	[13:0-1-8,Edge], [23:0-1-8,Edge], [30:0-	-1-8,Edge], [31:0-1-8,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 0.88	Vert(LL) -0.24 22-23 >829 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.68	Vert(CT) -0.33 22-23 >603 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.56	Horz(CT) 0.04 20 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 148 lb FT = 20%F, 11%E

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

BOT CHORD

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

20-27: 2x4 SP 2400F 2.0E(flat)

WFBS 2x4 SP No.3(flat) **BRACING-**TOP CHORD

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

29-8-0

except end verticals.

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

REACTIONS.

33=0-3-0, 28=0-3-8, 20=Mechanical

Max Grav 33=615(LC 3), 28=1873(LC 1), 20=838(LC 4)

12-9-12

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

2-3=-1179/0, 3-4=-1617/88, 4-5=-1617/88, 5-6=-1617/88, 6-7=-612/683, 7-8=0/1826,

8-9=0/1826, 9-11=-813/249, 11-12=-2206/0, 12-13=-2206/0, 13-14=-2925/0,

14-15=-2925/0, 15-16=-2763/0, 16-17=-2763/0, 17-18=-1707/0 BOT CHORD

32-33=0/757, 31-32=0/1542, 30-31=-88/1617, 29-30=-413/1189, 28-29=-943/33, $26 - 28 = -574/0, \ 25 - 26 = 0/1645, \ 24 - 25 = 0/2925, \ 23 - 24 = 0/2925, \ 22 - 23 = 0/2985, \ 21 - 22 = 0/2360, \ 24 - 25 = 0/2925, \ 24 - 25 = 0/2925, \ 24 - 25 = 0/2925, \ 24 - 25 = 0/2925, \ 24 - 25 = 0/2925, \ 25 - 25 = 0/2985, \ 21 - 22 = 0/2360, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 - 25 = 0/2925, \ 25 -$

 $2\text{-}33\text{-}946/0,\ 2\text{-}32\text{=}0/550,\ 3\text{-}32\text{=}-473/45,\ 3\text{-}31\text{=}-256/96,\ 7\text{-}28\text{=}-1278/0,\ 7\text{-}29\text{=}0/846,}$ 6-29=-878/0, 6-30=0/858, 5-30=-384/0, 9-28=-1599/0, 9-26=0/1186, 11-26=-1133/0

11-25=0/761, 18-20=-1299/0, 18-21=0/875, 17-21=-850/0, 17-22=0/515, 15-22=-283/0,

15-23=-357/217, 13-25=-1145/0, 13-24=0/278

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



February 22,2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/TP11 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	Ben Stout/Lot 9 Liberty Meadows/Harnett
					150350608
J0822-3964	F02G	Floor Girder	1	1	
					Job Reference (optional)

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0-1-8

HI 1-3-0 | 2-2-4

2-2-12

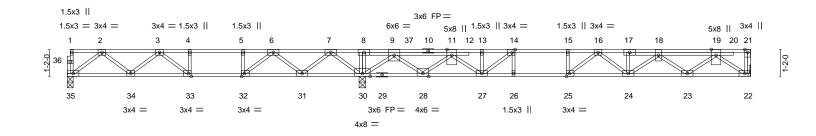
29-8-0

except end verticals.

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

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

Scale = 1:50.0



1	12-9-12	'	16-10-4	· ·
Plate Offsets (X,Y)	[14:0-1-8,Edge], [25:0-1-8,Edge], [32:0-	-1-8,Edge], [33:0-1-8,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 0.95	Vert(LL) -0.24 24-25 >835 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.74	Vert(CT) -0.33 24-25 >600 360	
BCLL 0.0	Rep Stress Incr NO	WB 0.64	Horz(CT) 0.05 22 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 160 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

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

OP CHORD 2x4 SP No.1(flat) *Except* 10-21: 2x4 SP 2400F 2.0E(flat)

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

22-29: 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.3(flat)

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

 ${\sf Max\ Grav\ 35=583(LC\ 3),\ 30=2312(LC\ 1),\ 22=989(LC\ 4)}$

12-9-12

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

TOP CHORD 2-3=-1103/0, 3-4=-1421/197, 4-5=-1421/197, 5-6=-1421/197, 6-7=-295/860, 7-8=0/2198,

8-9=0/2197, 9-11=-1380/0, 11-13=-2770/0, 13-14=-2757/0, 14-15=-3488/0, 15-16=-3488/0, 16-17=-3327/0, 17-18=-3333/0, 18-19=-2195/0

BOT CHORD 34-35=0/715, 33-34=0/1421, 32-33=-197/1421, 31-32=-564/918, 30-31=-1139/0,

28-30=-209/369, 27-28=0/2357, 26-27=0/3488, 25-26=0/3488, 24-25=0/3550,

23-24=0/3062, 22-23=0/1307

WEBS 2-35=-894/0, 2-34=0/505, 3-34=-414/77, 3-33=-309/18, 7-30=-1448/0, 7-31=0/873,

 $6\text{-}31\text{=-}916/0,\ 6\text{-}32\text{=-}0/911,\ 5\text{-}32\text{=-}405/0,\ 9\text{-}30\text{=-}2473/0,\ 9\text{-}28\text{=-}0/1347,\ 11\text{-}28\text{=-}1302/0,\ 9\text{-}30\text{=-}2473/0,\ 9\text{-}28\text{=-}0/1347,\ 11\text{-}28\text{=-}1302/0,\ 9\text{-}30\text{=-}2473/0,\ 9\text{-}28\text{=-}0/1347,\ 11\text{-}28\text{=-}1302/0,\ 9\text{-}30\text{=-}2473/0,\ 9\text{-}30$

 $11\text{-}27\text{=}0/570,\ 13\text{-}27\text{=}0/335,\ 19\text{-}22\text{=}-1604/0,\ 19\text{-}23\text{=}0/1128,\ 18\text{-}23\text{=}-1101/0,}$

18-24=-12/330, 16-24=-284/21, 16-25=-360/155, 14-27=-1154/0

NOTES-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to 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) 498 lb down at 14-9-12, and 230 lb down at 25-4-8 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: 22-35=-10, 1-21=-100

Concentrated Loads (lb)

Vert: 18=-150(B) 37=-418(B)



February 22,2022

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 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/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	Ben Stout/Lot 9 Liberty Meadows/Harnett
	F03				I50350609
J0822-3964	F03	FLOOR	10	1	
					Job Reference (optional)

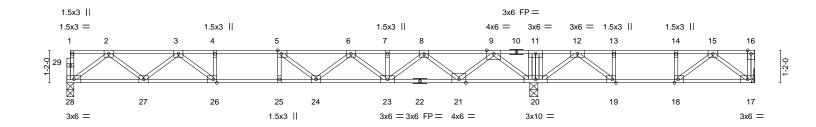
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:19 2022 Page 1 ID:IFcNqFeBMDbEpQt48prlavzQQxj-vWQBwPq4j6eYz8h2uAAZWxcxndvDYSrOpurb9dziurg

0-1-8



2-1-4

Scale = 1:41.3



⊢				16-9-0 16-9-0				16-9-8 0-0-8		24-8-0 7-10-8	
Plate Offse	ets (X,Y)	[5:0-1-8,Edge], [18:0-1-8,	,Edge], [19:0-1		: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	0.97	Vert(LL)	-0.25 24-25	>801	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.34 24-25	>594	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.04 20	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matrix	k-S					Weight: 125 lb	FT = 20%F, 11%E

LUMBER-TOP CHORD

2x4 SP No 1(flat)

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

22-28: 2x4 SP 2400F 2.0E(flat)

WFBS 2x4 SP No.3(flat) **BRACING-**TOP CHORD

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

except end verticals.

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

REACTIONS.

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

Max Uplift 17=-74(LC 3)

Max Grav 20=3473(LC 1), 28=828(LC 10), 17=357(LC 4)

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

TOP CHORD 2-3=-1677/0, 3-4=-2912/0, 4-5=-2912/0, 5-6=-2913/0, 6-7=-2261/0, 7-8=-2261/0, 8-9=-881/0, 9-11=0/1587, 11-12=0/1587, 12-13=-510/481, 13-14=-510/481,

14-15=-510/481

BOT CHORD $27 - 28 = 0/1029,\ 26 - 27 = 0/2350,\ 25 - 26 = 0/2912,\ 24 - 25 = 0/2912,\ 23 - 24 = 0/2767,\ 21 - 23 = 0/1698,\ 24 - 25 = 0/2912,\ 23 - 24 = 0/2767,\ 21 - 23 = 0/1698,\ 24 - 25 = 0/2912,\ 23 - 24 = 0/2767,\ 21 - 23 = 0/1698,\ 24 - 25 = 0/2912,\ 23 - 24 = 0/2767,\ 21 - 23 = 0/1698,\ 24 - 25 = 0/2912,\ 23 - 24 = 0/2767,\ 21 - 23 = 0/1698,\ 24 - 25 = 0/2912,\ 23 - 24 = 0/2767,\ 21 - 23 = 0/1698,\ 24 - 25 = 0/2912,\ 23 - 24 = 0/2767,\ 21 - 23 = 0/1698,\ 24 - 25 = 0/2912,\ 23 - 24 = 0/2767,\ 21 - 23 = 0/1698,\ 24 - 25 = 0/2912,\ 23 - 24 = 0/2767,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0/1698,\ 21 - 23 = 0$

19-20=-997/98, 18-19=-481/510, 17-18=-136/375

WEBS $11\text{-}20\text{=-}2021/0,\ 9\text{-}20\text{=-}1640/0,\ 9\text{-}21\text{=-}0/1150,\ 8\text{-}21\text{=-}1093/0,\ 8\text{-}23\text{=-}0/749,\ 6\text{-}23\text{=-}669/0,}$ 6-24=0/344, 5-24=-352/171, 12-20=-937/0, 12-19=0/928, 13-19=-443/0, 2-28=-1288/0,

2-27=0/844, 3-27=-877/0, 15-17=-470/171, 3-26=0/837, 4-26=-326/0, 15-18=-440/172

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 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.

LOAD CASE(S) Standard

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

Vert: 17-28=-10, 1-16=-100

Concentrated Loads (lb) Vert: 11=-1833

February 22,2022

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

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ANSI/TP11 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	Ben Stout/Lot 9 Liberty Meadows/Harnett
					150350610
J0822-3964	F03G	FLOOR	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:20 2022 Page 1 ID:IFcNqFeBMDbEpQt48prlavzQQxj-Ni_Z7lqiUQmPbIGFStho399801EUHubY2Ya8i3ziurf

0-1-8

H| 1-3-0 2-2-4

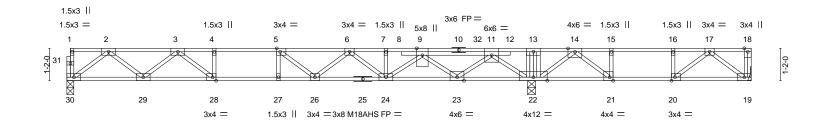
2-1-4

24-8-0

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

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

Scale = 1:41.5



				10 0 0				10 0		2400	
				16-9-0				0-შ-8		7-10-8	
Plate Of	fsets (X,Y)	[5:0-1-8,Edge], [20:0-1-8,	Edge], [21:0-	1-8,Edge], [28	3:0-1-8,Edge	el					
			<u> </u>	T	, ,	1					
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.27 26-27	>741	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.37 26-27	>546	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.04 22	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S					Weight: 131 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

16-9-8

except end verticals.

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

10-18: 2x4 SP 2400F 2.0E(flat)

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

25-30: 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS.

(size) 22=0-3-8, 30=0-3-0, 19=Mechanical

Max Uplift 19=-127(LC 3)

Max Grav 22=3896(LC 1), 30=849(LC 10), 19=309(LC 4)

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

2-3=-1725/0, 3-4=-3036/0, 4-5=-3036/0, 5-6=-3086/0, 6-7=-2472/0, 7-9=-2482/0, TOP CHORD 9-11=-1164/0, 11-13=0/1981, 13-14=0/1970, 14-15=-333/675, 15-16=-333/675,

16-17=-333/675

BOT CHORD 29-30=0/1055, 28-29=0/2428, 27-28=0/3036, 26-27=0/3036, 24-26=0/2972, 23-24=0/2052,

21-22=-1323/0, 20-21=-675/333, 19-20=-200/312

WEBS 13-22=-2067/0, 11-22=-2334/0, 11-23=0/1216, 9-23=-1158/0, 9-24=0/567, 6-24=-658/0,

6-26=0/284, 5-26=-257/234, 5-27=-250/11, 14-22=-1009/0, 14-21=0/1098, 15-21=-538/0, 2-30=-1321/0, 2-29=0/872, 3-29=-916/0, 17-19=-392/251, 3-28=0/897, 4-28=-346/0,

16-9-0

17-20=-606/27, 16-20=-41/292

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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 19.
- 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.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 471 lb down at 14-9-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) 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: 1-18=-100, 19-30=-10

February 22,2022

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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/TPI1 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	Ben Stout/Lot 9 Liberty Meadows/Harnett
	F	=: 005			I50350610
J0822-3964	F03G	FLOOR	1	1	Job Reference (optional)

Comtech, Inc,

Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:20 2022 Page 2 ID:IFcNqFeBMDbEpQt48prlavzQQxj-Ni_Z7IqiUQmPbIGFStho399801EUHubY2Ya8i3ziurf

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 13=-1833 32=-391(F)

Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 9 Liberty Meadows/Harnett	
J0822-3964	F04	Floor	1	1	I50350611	1
					lob Peference (entional)	

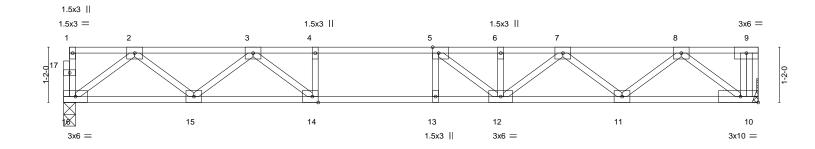
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:21 2022 Page 1 ID:IFcNqFeBMDbEpQt48prlavzQQxj-svYxK5rKFjuGCRrR0bC1bMhL4QZK0P1hHCKiEWziure

0-1-8



Scale = 1:24.3

FT = 20%F, 11%E



						14-8-0						·
Plate Offs	ets (X,Y)	[5:0-1-8,Edge], [14:0-1-8	,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	0.66	Vert(LL)	-0.20 12-13	>862	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.27 12-13	>649	360			
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.04 10	n/a	n/a			

BRACING-

TOP CHORD

BOT CHORD

Matrix-S

14-8-0

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

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

5.0

REACTIONS. (size) 16=0-3-0, 10=Mechanical Max Grav 16=787(LC 1), 10=793(LC 1)

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

Code IRC2015/TPI2014

2-3=-1583/0, 3-4=-2656/0, 4-5=-2656/0, 5-6=-2566/0, 6-7=-2566/0, 7-8=-1657/0 TOP CHORD

BOT CHORD 15-16=0/978, 14-15=0/2184, 13-14=0/2656, 12-13=0/2656, 11-12=0/2229, 10-11=0/1055 **WEBS**

8-10=-1284/0, 8-11=0/783, 7-11=-745/0, 7-12=0/431, 2-16=-1225/0, 2-15=0/787,

3-15=-783/0, 3-14=0/786, 4-14=-350/0, 5-12=-472/154

NOTES-

BCDL

- 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.



Weight: 75 lb

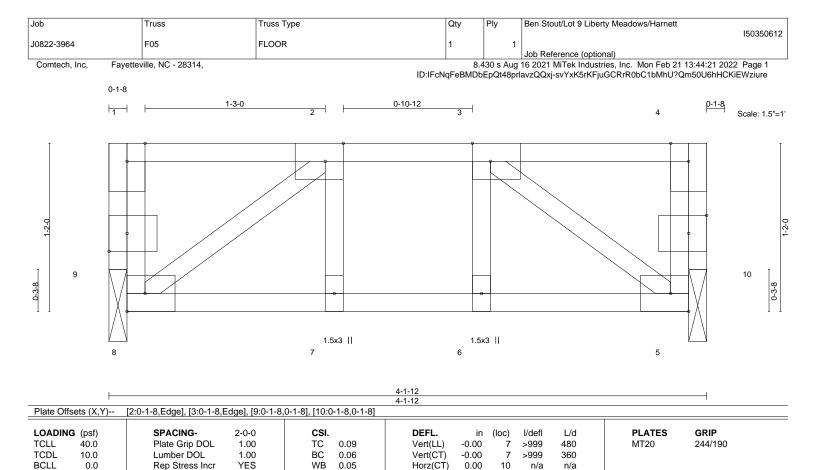
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

February 22,2022





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

WEBS 2x4 SP No.3(flat)

5.0

REACTIONS. (size) 9=0-1-8, 10=0-1-8

Max Grav 9=207(LC 1), 10=207(LC 1)

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

Code IRC2015/TPI2014

- 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) Bearing at joint(s) 9, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Matrix-S

- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9, 10.
- 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.



Weight: 24 lb

Structural wood sheathing directly applied or 4-1-12 oc purlins,

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

except end verticals.

FT = 20%F, 11%E

February 22,2022



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Job Truss Truss Type Qty Ply Ben Stout/Lot 9 Liberty Meadows/Harnett 150350613 J0822-3964 F06G Floor Girder Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:22 2022 Page 1 Comtech, Inc. ID:IFcNqFeBMDbEpQt48prlavzQQxj-K56JYQsy;116eAbQdZIjG8aEfqq4TluLrVs3Fmyziurd 3x6 || 3x6 || 0-1-8 1-3-0 Scale = 1:8.6 1-2-0 1.5x3 || 1.5x3 || 3x6 =8 6 5 3x6 =

3-4-8

LOADIN	\(\(\)	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.10	Vert(LL) -0	0.00 7	>999 480	MT20	244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.18	Vert(CT) -0	0.01 7	>999 360		
BCLL	0.0	Rep Stress Incr NO	WB 0.18	Horz(CT) 0	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-

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

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

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

Max Grav 8=546(LC 1), 5=491(LC 1)

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

TOP CHORD 2-3=-629/0

BOT CHORD 7-8=0/629, 6-7=0/629, 5-6=0/629 **WEBS** 2-8=-761/0, 3-5=-761/0

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) 735 lb down at 1-6-4 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: 2=-693(B)



Structural wood sheathing directly applied or 3-4-8 oc purlins,

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

except end verticals.

February 22,2022



Job Truss Truss Type Qty Ply Ben Stout/Lot 9 Liberty Meadows/Harnett 150350614 J0822-3964 F07G FLOOR GIRDER Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:22 2022 Page 1 Comtech, Inc. ID:IFcNqFeBMDbEpQt48prlavzQQxj-K56JYQsy?106qbQdZljG8aEe6q4zlvlrVs3Fmyziurd 3x4 = 1-3-0 0-4-12 0-1-8 3 4 1.5x3 || 3x4 || 3x4 = Scale = 1:8.6 3x4 =1.5x3 || 3x6 =1.5x3 8 3x6 = 3-7-12

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,0-1-8]

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 0.13	Vert(LL)	-0.01 7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.14	Vert(CT)	-0.01 7-8	>999	360		
BCLL	0.0	Rep Stress Incr NO	WB 0.09	Horz(CT)	0.00 5	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 23 lb	FT = 20%F, 11%E

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=0-3-8 Max Grav 8=301(LC 1), 5=264(LC 1)

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

TOP CHORD 2-3=-297/0

BOT CHORD 7-8=0/297, 6-7=0/297, 5-6=0/297

WEBS 2-8=-367/0, 3-5=-363/0

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: 5-8=-10, 1-4=-100

Concentrated Loads (lb) Vert: 7=-197



Structural wood sheathing directly applied or 3-7-12 oc purlins,

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

except end verticals.

February 22,2022

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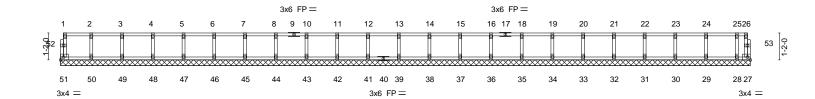


Job	Truss	Truss Type	Qty	Ply	Ben Stout/Lot 9 Liberty Meadows/Harnett	٦
J0822-3964	KW1	Floor Supported Gable	1	1	150350615	i
00022 000 1		1 1001 Capportoa Cabio	Ι΄.		Joh Poforonce (entional)	

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

| Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:24 2022 Page 1 ID:IFcNqFeBMDbEpQt48prlavzQQxj-GTE4z6tDXeHq3va0hjmkD?J0kenTDq88zAYMrrziurb

Scale = 1:50.0



	29-11-0									
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	DEFL. Vert(LL) Vert(CT)	in (loc) n/a - n/a -	l/defl n/a n/a	L/d 999 999		GRIP 244/190		
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.03 Matrix-R	Horz(CT)	0.00 27	n/a	n/a	Weight: 124 lb	FT = 20%F, 11%E		

29-11-0

LUMBER-**BRACING-**

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

REACTIONS. All bearings 29-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 51, 27, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28

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	Ben Stout/Lot 9 Liberty Meadows/Harnett
J0822-3964	KW2	Floor Supported Gable	1	1	150350616
30822-3904	KVVZ	Floor Supported Gable	'	'	Joh Reference (entional)

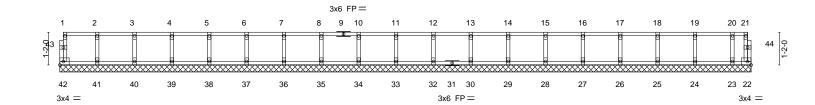
Comtech, Inc,

0-11-8

Fayetteville, NC - 28314,

| Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Feb 21 13:44:25 2022 Page 1 ID:IFcNqFeBMDbEpQt48prlavzQQxj-kgnSASurlyPhh39CFRHzmCsBT27iyHOHCqlvNHziura

Scale = 1:41.1



			<u>'</u>						
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI. TC 0.06	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999	20	211/100
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.03 Matrix-R	Horz(CT)	0.00	22	n/a	n/a	Weight: 102 lb	FT = 20%F, 11%E

24-8-0

LUMBER-**BRACING-**

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

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 24-8-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23

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.



February 22,2022







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

φ.

- 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.