

RE: J0521-2804

Weaver / Lot 2 Wire Road / Harnett

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0521-2804

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 Floor Load: 55.0 psf Roof Load: N/A psf

This package includes 12 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E15695636	F1	5/6/2021
2	E15695637	F2	5/6/2021
3	E15695638	F2A	5/6/2021
4	E15695639	F3	5/6/2021
5	E15695640	F4	5/6/2021
6	E15695641	F5	5/6/2021
7	E15695642	F6	5/6/2021
8	E15695643	F6A	5/6/2021
9	E15695644	KW1	5/6/2021
10	E15695645	KW2	5/6/2021
11	E15695646	KW4	5/6/2021
12	E15695647	KW6	5/6/2021

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: Lassiter, Frank

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.



May 06, 2021

Job	Truss	Truss Type	Qty	Ply	Weaver / Lot 2 Wire Road / Harnett
					E15695636
J0521-2804	F1	Floor	6	1	
					Job Reference (optional)

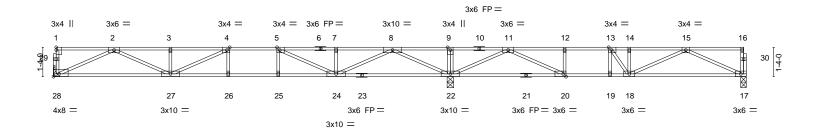
Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 5 14:07:02 2021 Page 1 ID:lwPOH6hK8Jeptt6SXqQOJcyzm6C-xF1tKBSonTtYqR77WFD5LEIwBzXSAsY4Qo5HVPzJXAd

0-1-8 2-6-0 2-1-12 $H \vdash$

1-11-4 0-9-0

0-1-8 Scale = 1:52.3



	18-0-4	I	24-8-2		₁ 26-1-0 ₁	31-5-8		
1	18-0-4				6-7-14		1-4-14	5-4-8
Plate Offsets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge], [13:0-1-	8,Edge], [20:0-1-8,Edge],						
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI. TC 0.74	DEFL. Vert(LL)	in (loc) -0.27 26-27	l/defl >809	L/d 480	PLATES MT20	GRIP 244/190
TCDL 10.0 BCLL 0.0 BCDL 5.0	Lumber DOL 1.00 Rep Stress Incr NO Code IRC2015/TPI2014	BC 0.70 WB 0.76 Matrix-S	Vert(CT) Horz(CT)	-0.35 26-27 0.05 17	>609 n/a	360 n/a	Weight: 156	lb FT = 20%F, 11%E

LUMBER-BRACING-

TOP CHORD 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(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 6-0-0 oc bracing.

REACTIONS. (size) 28=Mechanical, 17=0-3-0, 22=0-3-8

Max Grav 28=2429(LC 10), 17=653(LC 4), 22=1993(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-28=-1657/0, 2-3=-2727/0, 3-4=-2727/0, 4-5=-2965/0, 5-7=-2077/0, 7-8=-2077/0,

8-9=0/1705, 9-11=0/1705, 11-12=-1536/225, 12-13=-1536/225, 13-14=-1656/0,

14-15=-1656/0

BOT CHORD 27-28=0/1724, 26-27=0/2965, 25-26=0/2965, 24-25=0/2965, 22-24=-186/685,

20-22=-776/672, 19-20=-225/1536, 18-19=-225/1536, 17-18=0/1158

WEBS 9-22=-293/0, 2-28=-1803/0, 2-27=0/1110, 3-27=-318/0, 4-27=-450/135, 8-22=-2242/0,

8-24=0/1595, 7-24=-270/19, 5-24=-1154/0, 15-17=-1269/0, 15-18=-54/550,

14-18=-359/0, 11-22=-1735/0, 11-20=0/1225, 12-20=-376/0, 13-18=0/646, 13-19=-351/0

- 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.

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: 1=-1550

May 6,2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a 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	Weaver / Lot 2 Wire Road / Harnett
					E15695637
J0521-2804	F2	Floor	5	1	
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 5 14:07:04 2021 Page 1 ID:lwPOH6hK8Jeptt6SXqQOJcyzm6C-te9elsT2I47G4lGVdgGZQfOJpnApeoLNu6aOaHzJXAb

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

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

except end verticals.



1-10-0

0-1-8 Scale = 1:29.3

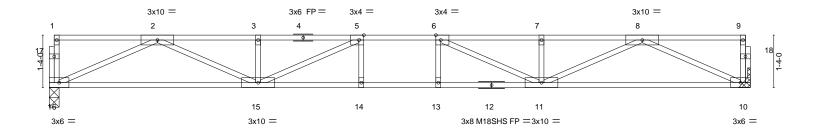


Plate Offsets (X,Y)--[5:0-1-8,Edge], [6:0-1-8,Edge] SPACING-DEFL. **PLATES** GRIP LOADING (psf) CSI. in (loc) I/defl L/d 244/190 **TCLL** 40.0 Plate Grip DOL 1.00 TC 0.54 Vert(LL) -0.24 14-15 >875 480 MT20 TCDL 10.0 Lumber DOL 1.00 BC 0.84 Vert(CT) -0.33 13-14 >649 360 M18SHS 244/190 **BCLL** 0.0 Rep Stress Incr YES WB 0.61 Horz(CT) 0.06 10 n/a n/a **BCDL** Code IRC2015/TPI2014 FT = 20%F. 11%E 5.0 Weight: 89 lb Matrix-S

BRACING-

TOP CHORD

BOT CHORD

17-10-0

LUMBER-

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

WEBS 2x4 SP No.3(flat)

> (size) 16=0-3-0, 10=Mechanical Max Grav 16=961(LC 1), 10=961(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2980/0, 3-5=-2980/0, 5-6=-3497/0, 6-7=-2980/0, 7-8=-2980/0

BOT CHORD 15-16=0/1818, 14-15=0/3497, 13-14=0/3497, 11-13=0/3497, 10-11=0/1818 WEBS

2-16=-1995/0, 2-15=0/1285, 3-15=-302/0, 5-15=-833/0, 8-10=-1995/0, 8-11=0/1285,

7-11=-302/0, 6-11=-833/0

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 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.



Job Truss Truss Type Qty Ply Weaver / Lot 2 Wire Road / Harnett F15695638 J0521-2804 F2A Floor Girder Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

0-1-8

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 5 14:07:05 2021 Page 1 ID:lwPOH6hK8Jeptt6SXqQOJcyzm6C-Lqj0zCUg3OF7hvriBNnoztwZzBfPNJ?W7lJx6kzJXAa

1-8-12 2-0-0 H +

1-4-4

0-1-8 Scale = 1:29.4

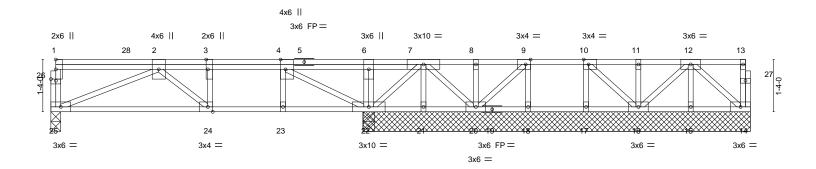




Plate Offsets (X,Y)	Plate Offsets (X,Y) [3:0-3-0,Edge], [4:0-3-0,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [24:0-1-8,Edge], [26:0-1-8,0-0-8]											
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP								
TCLL 40.0	Plate Grip DOL 1.00	TC 0.19	Vert(LL) -0.04 24-25 >999 480	MT20 244/190								
TCDL 10.0	Lumber DOL 1.00	BC 0.30	Vert(CT) -0.06 24-25 >999 360									
BCLL 0.0	Rep Stress Incr NO	WB 0.33	Horz(CT) 0.01 22 n/a n/a									
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 112 lb FT = 20%F, 11%E								

LUMBER-**BRACING-**

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

BOT CHORD 2x4 SP No.1(flat) except end verticals.

WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 9-10-8 except (jt=length) 25=0-3-0.

Max Uplift All uplift 100 lb or less at joint(s) 21 (lb) -

Max Grav All reactions 250 lb or less at joint(s) 14, 21, 20, 18, 15, 16, 17 except 22=898(LC 1), 22=898(LC 1),

25=553(LC 7)

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

TOP CHORD 2-3=-945/0, 3-4=-945/0, 4-6=0/251 **BOT CHORD** 24-25=0/945, 23-24=0/945, 22-23=0/945

WFBS 2-25=-1024/0, 4-22=-1304/0

NOTES-

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21.
- 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) 153 lb down at 1-11-12, and 153 lb down at 3-11-12, and 309 lb down at 5-11-12 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: 14-25=-10, 1-13=-100

Concentrated Loads (lb)

Vert: 4=-229(F) 3=-73(F) 28=-73(F)



May 6,2021

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Job	Truss	Truss Type	Qty	Ply	Weaver / Lot 2 Wire Road / Harnett
J0521-2804	E3	Floor	2	1	E15695639
30321-2004	13	11001	2	'	Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 5 14:07:06 2021 Page 1 ID:lwPOH6hK8Jeptt6SXqQOJcyzm6C-p1HOAYVIqhN_J3Qul4I1V4TgZau96l8gLP3VeAzJXAZ

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





0₇1₇8 Scale = 1:22.8

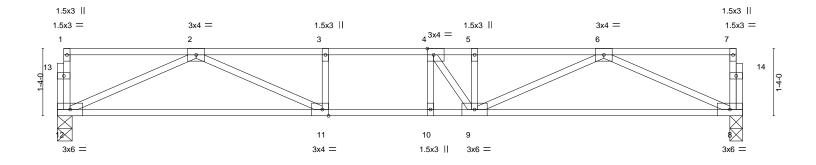


Plate Offs	sets (X,Y)	[4:0-1-8,Edge], [11:0-1-8,Edge]			
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.39	Vert(LL) -0.12 9-10 >999 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.65	Vert(CT) -0.18 11-12 >898 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.03 8 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 69 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)

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

TOP CHORD

REACTIONS. (size) 12=0-3-8, 8=0-3-0 Max Grav 12=727(LC 1), 8=727(LC 1)

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

TOP CHORD 2-3=-1986/0, 3-4=-1986/0, 4-5=-1966/0, 5-6=-1966/0

11-12=0/1315, 10-11=0/1986, 9-10=0/1986, 8-9=0/1318 BOT CHORD

 $6-8 = -1445/0, \ 6-9 = 0/716, \ 5-9 = -263/76, \ 4-9 = -385/240, \ 2-12 = -1442/0, \ 2-11 = 0/793$ WEBS

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) 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.





Comtech, Inc, Fayetteville, NC - 28314,

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

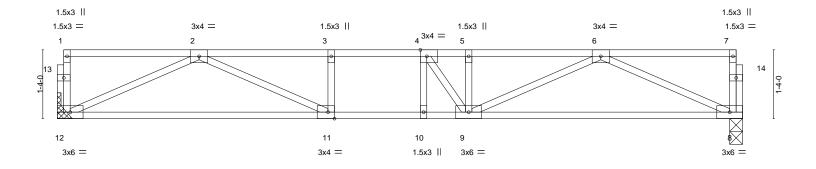
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.





0₁1₁8 Scale = 1:22.3



<u></u>			6-7-12 6-7-12			7-11-0 1-3-4	-			13-3-8 5-4-8	
Plate Offs	ets (X,Y)	[4:0-1-8,Edge], [11:0-1-8	,Edge]								
LOADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	c) I/def	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.10 9-	10 >999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.16 11-	12 >953	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	8 n/a	n/a		
BCDL	5.0	Code IRC2015/T	PI2014	Matrix	k-S					Weight: 68 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

(size) 12=Mechanical, 8=0-3-0 Max Grav 12=711(LC 1), 8=711(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1908/0, 3-4=-1908/0, 4-5=-1897/0, 5-6=-1897/0

11-12=0/1281, 10-11=0/1908, 9-10=0/1908, 8-9=0/1283 **BOT CHORD**

 $6-8 = -1407/0, \ 6-9 = 0/679, \ 5-9 = -259/61, \ 2-12 = -1405/0, \ 2-11 = 0/738, \ 4-9 = -348/244$ WEBS

NOTES-

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



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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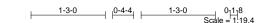
Job	Truss	Truss Type	Qty	Ply	Weaver / Lot 2 Wire Road / Harnett	
J0521-2804	F5	Floor	1	1		E15695641
00021-2004		1 1001	'		Job Reference (optional)	

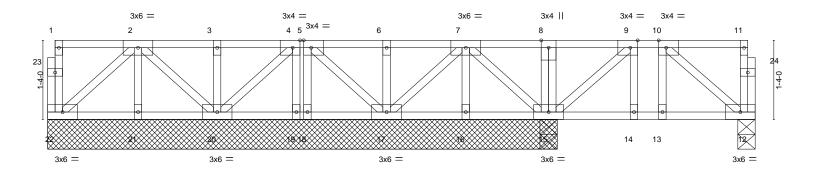
Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 5 14:07:08 2021 Page 1 ID:lwPOH6hK8Jeptt6SXqQOJcyzm6C-mPP8bEWZMJdiYMaGsVKVaVY4JOjCakdzpjYbj3zJXAX



0-0_12





L_		2-11-0	4-3-0	4-3-64-11-6 ₁ 5	i-7-12 _I	8-5-4			B _r 7-0	11-11-0	
		2-11-0	1-4-0	0-შ-6 0-8-0	0-8-6	2-9-8		C	1-4-12	3-4-0	Į.
Plate 0	Offsets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,E	Edge], [9:0-1-8,	Edge], [10:0-1-8,Edge]	lge]						
	•										
LOAD	ING (psf)	SPACING-	2-0-0	CSI.	DE	FL. in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC 0.18	Ve	rt(LL) -0.00	13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0.10	Ve	rt(CT) -0.00	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB 0.08	Ho	rz(CT) -0.00	22	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matrix-S						Weight: 77 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: 16-17,15-16.

REACTIONS. All bearings 8-7-0 except (jt=length) 12=0-3-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 21, 16, 19, 18 except 12=323(LC 4), 20=365(LC 10), 17=376(LC 10), 15=581(LC 9), 15=564(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 8-15=-305/0, 6-17=-272/0, 3-20=-263/0, 9-15=-342/0, 10-12=-303/0

NOTES-

- 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.

LOAD CASE(S) Standard

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

Vert: 12-22=-10, 1-11=-200



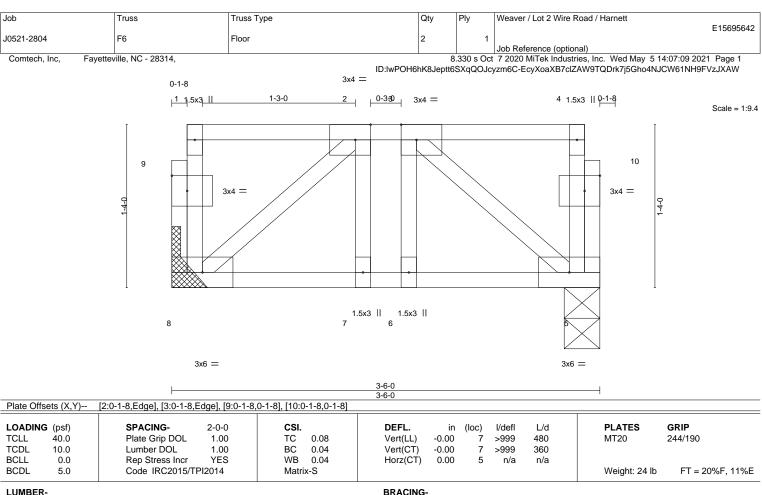
May 6,2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a 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





TOP CHORD

BOT CHORD

REACTIONS.

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

> (size) 8=Mechanical, 5=0-3-8 Max Grav 8=173(LC 1), 5=173(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 3-6-0 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Weaver / Lot 2 Wire Road / Harnett F15695643 J0521-2804 Floor F6A Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 5 14:07:09 2021 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:lwPOH6hK8Jeptt6SXqQOJcyzm6C-EcyXoaXB7clZAW9TQDrk7j5F4o3cJBy61NH9FVzJXAW

Structural wood sheathing directly applied or 3-6-0 oc purlins,

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

except end verticals.

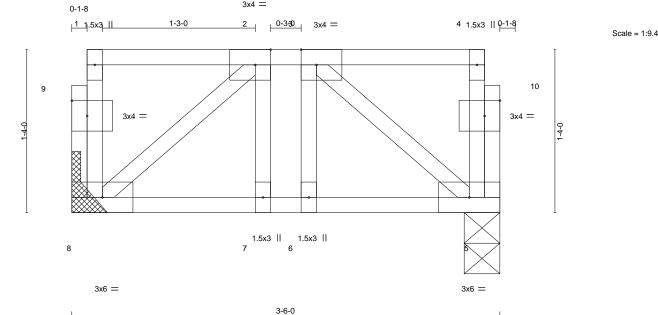


Plate Offsets (X,Y)-- [2:0-1-8.Edge], [3:0-1-8.Edge], [9:0-1-8.0-1-8], [10:0-1-8.0-1-8]

1 1010 01100	10 (71, 1)	Lio : o,Lagol, [o.o : o,Lag	. 0,0 . 0]									
LOADING	(psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	-0.00	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.00	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2	014	Matri	x-S						Weight: 24 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 8=Mechanical, 5=0-3-8 Max Grav 8=329(LC 1), 5=329(LC 1)

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

TOP CHORD 2-3=-252/0

BOT CHORD 7-8=0/252, 6-7=0/252, 5-6=0/252

WEBS 2-8=-322/0, 3-5=-322/0

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.

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=-200



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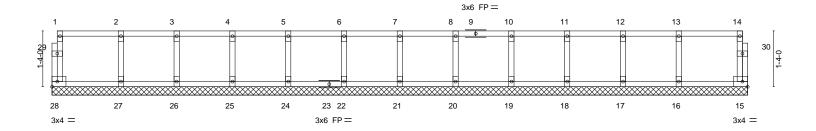
Job	Truss	Truss Type	Qty	Ply	Weaver / Lot 2 Wire Road / Harnett
					E15695644
J0521-2804	KW1	GABLE	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc,

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 5 14:07:10 2021 Page 1 ID:lwPOH6hK8Jeptt6SXqQOJcyzm6C-ioWv0wYpuwuQogkf_wMzgwdRtCQ52ftFG11inxzJXAV

0-11-8

0-<u>11</u>-8 Scale = 1:27.5



1-7-12 1-7-12	2-11-12	6-11-12 8-3-12 1-4-0 1-4-0		-7-12
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 0.12 BC 0.01 WB 0.03 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 15 n/a n/a	PLATES GRIP MT20 244/190 Weight: 73 lb FT = 20%F, 11%E

LUMBER-BRACING-

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

2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat) 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 16-7-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15, 21, 22, 24, 25, 26, 27, 20, 19, 18, 17, 16

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	Weaver / Lot 2 Wire Road / Harnett
10504 0004	KIMO	GABLE			E15695645
J0521-2804	KW2	GABLE	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 5 14:07:14 2021 Page 1

ID:IwPOH6hK8Jeptt6SXqQOJcyzm6C-aZmQsHbKy9OrGI1QDmRvqmo8lpn__TurBf?wwizJXAR

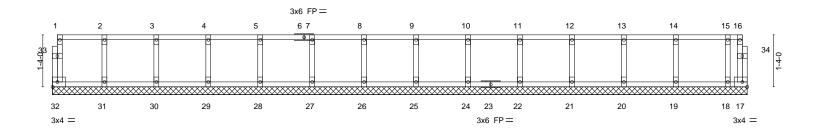
Structural wood sheathing directly applied or 6-0-0 oc purlins,

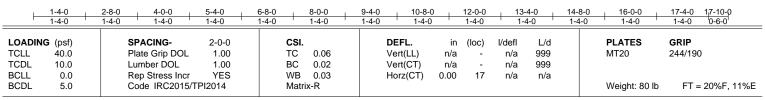
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-11-8

0-11-8 Scale = 1:29.6





TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

2x4 SP No.3(flat)

REACTIONS. All bearings 17-10-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 22, 21, 20, 19, 18

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.





Job	Truss	Truss Type	Qty	Ply	Weaver / Lot 2 Wire Road / Harnett
					E15695646
J0521-2804	KW4	GABLE	1	1	
					Job Reference (optional)

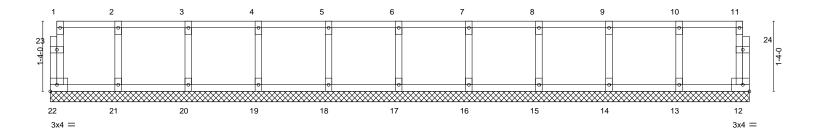
Fayetteville, NC - 28314, Comtech, Inc,

0118

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 5 14:07:15 2021 Page 1

ID:lwPOH6hK8Jeptt6SXqQOJcyzm6C-3lKo3dcyjSWiuRcdnTy8N_LJYD7Ljw9?QJkTS9zJXAQ

0118 Scale = 1:21.9



1-3-8	2-7-8 3-11-8	5-3-8 6-7-8	7-11-8	9-3-8	10-7-8	11-11-8	13-3-8
1-3-8	1-4-0 1-4-0	1-4-0 1-4-0	1-4-0	1-4-0	1-4-0		1-4-0
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.06 BC 0.01 WB 0.03 Matrix-R	Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.0	/a - n/a	L/d 999 999 n/a	PLATES MT20 Weight: 60 lb	GRIP 244/190 FT = 20%F, 11%E

BOT CHORD

LUMBER-BRACING-

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

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

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

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

REACTIONS. All bearings 13-3-8.

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





818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Weaver / Lot 2 Wire Road / Harnett F15695647 J0521-2804 KW6 **GABLE** Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Wed May 5 14:07:16 2021 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:IwPOH6hK8Jeptt6SXqQOJcyzm6C-XyuAGzdaUmeZWbBpKBTNvBtT9cTWSNM8ezU1?bzJXAP _{Q-1-}8.5x3 Ⅱ 1.5x3 || Q-1-8 2 1.5x3 || 3 1.5x3 || 5 1.5x3 || Scale = 1:9.4 9 10 3x4 = 8 7 6 3x6 = 1.5x3 || 3x6 = 0-5-0 1-9-0 3-6-0 0-5-0 1-4-0 Plate Offsets (X,Y)--[9:0-1-8,0-1-8], [10:0-1-8,0-1-8] SPACING-CSI. L/d **PLATES** GRIP LOADING (psf) 2-0-0 DEFL. in (loc) I/defI Plate Grip DOL 244/190 TCLL 40.0 1.00 TC 0.06 Vert(LL) n/a n/a 999 MT20 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 6 n/a n/a **BCDL** Code IRC2015/TPI2014 FT = 20%F, 11%E 5.0 Weight: 21 lb Matrix-R

LUMBER-

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

TOP CHORD

Structural wood sheathing directly applied or 3-6-0 oc purlins,

except end verticals.

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

REACTIONS. (size) 8=3-6-0, 6=3-6-0, 7=3-6-0

Max Grav 8=91(LC 1), 6=91(LC 1), 7=161(LC 1)

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.





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



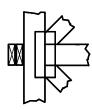
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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



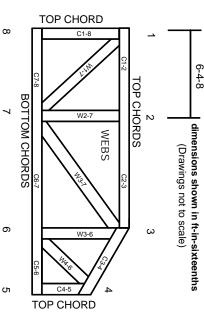
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

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

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- 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.