



Wise Engineering
3915 Old Fairground Rd.
Angier, NC 27501
(919)894-2203

July 22, 2019

Raphael Locklear

Subject: Lewis Residence – 202 Broad Lake Ln., Spring Lake, NC

Mr. Locklear,

I have reviewed the framing for the Lewis Residence being constructed at the address shown above. Specifically, I reviewed the inspection concerns reviewed with Austin on-site.

- The foundation wall at the back wall of the garage has two areas where the wall was not constructed in the right location, therefore, did not provide adequate support to the floor trusses as required. The wall has been corrected by adding additional masonry support. The footing for the wall has adequate projection as required, therefore it is adequate as repaired.
- The deck band (single or double 2x10 min.) for the back deck may be attached using bolts, bolted directly to the double 2x4 end vertical section of the floor trusses. Use a minimum of ½ inch diameter bolts.
- The deck joist will span approximately 13'-6" outward from the house. This will require 2x10 treated joist spaced at 12-inch on center. The outer band running between the vertical support post should be either a (2)1.75"x9.25" LVL or a (3)2x12 beam.
- The connection between the upper deck post to the deck should be made by using a RPBZ post base.

The analysis and members outlined above is in accordance with the requirements of the 2018 NC State Residential Building Code. If you need additional information or have other questions, please let us know.

Sincerely,

Randy K. Wise, PE



Trenco

818 Soundside Rd
Edenton, NC 27932

Re: J1118-5041
202 BROADLAKE LANE, SPRING LAKE, NC

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

Pages or sheets covered by this seal: E13167634 thru E13167664

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



June 14, 2019

Gilbert, Eric

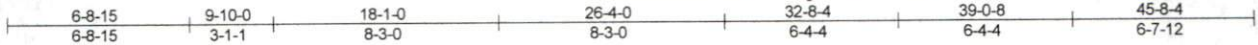
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job J1118-5041	Truss 1FG1	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	202 BROADLAKE LANE, SPRING LAKE, NC E13167634
-------------------	---------------	-----------------------------------	----------	----------	--

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:49:38 2019 Page 1

ID:RQWVY0n0?fA3GhiYKTgTw?zbetT-QUdM3OuL7YkuW7rYVl_mXwt4MeID_sbIEGIIez6NRR



Scale = 1:84.3

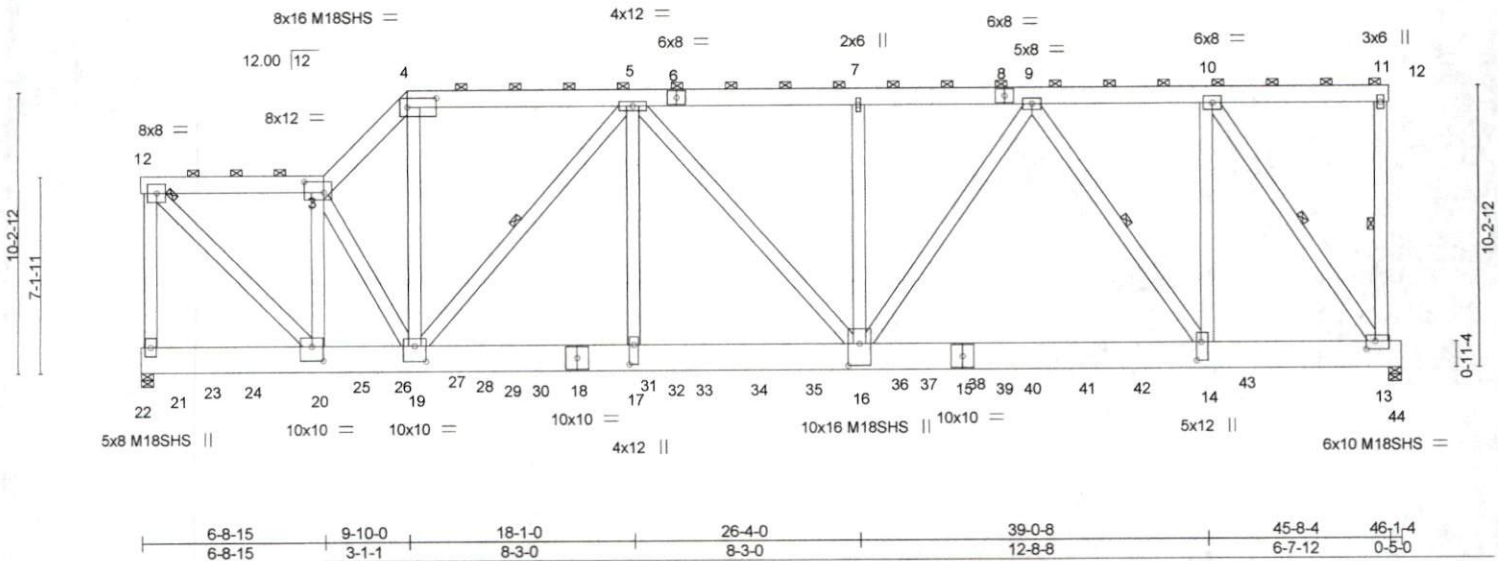


Plate Offsets (X,Y)-	[3:0-8-8,0-4-12], [4:1-0-12,0-4-0], [13:0-4-0,0-3-8], [14:0-8-0,0-2-0], [16:0-9-8,0-5-0], [17:0-8-8,0-2-0], [19:0-5-0,0-6-12], [20:0-5-0,0-6-4]
----------------------	---

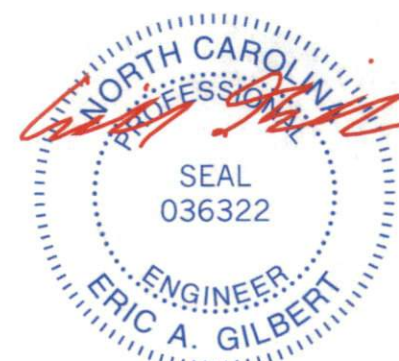
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.89	Vert(LL)	-0.31 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT)	-0.45 14-16	>999	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.73	Horz(CT)	0.08 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.02 17	>999	240		
							Weight: 1312 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-13 max.): 1-3, 4-12.
BOT CHORD 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	WEBS 1 Row at midpt 11-13, 5-19, 9-14, 10-13

REACTIONS. (lb/size) 21=5733/0-5-8 (req. 0-5-12), 13=3757/0-5-8
 Max Horz 21=100(LC 23)
 Max Uplift 21=-250(LC 4), 13=-203(LC 5)
 Max Grav 21=9720(LC 14), 13=8385(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-21=9008/180, 2-3=8699/116, 3-4=11383/197, 4-5=8357/174, 5-7=-11851/230, 7-9=-11851/230, 9-10=5864/109
 BOT CHORD 19-20=-193/8935, 17-19=-245/11311, 16-17=-245/11311, 14-16=-211/8890, 13-14=-109/5864
 WEBS 2-20=-163/12383, 3-20=-6502/161, 3-19=-2007/109, 4-19=-377/675, 5-19=-4569/146, 5-17=0/2818, 5-16=-78/821, 7-16=-441/148, 9-16=-34/5309, 9-14=-5426/181, 10-14=-13/8557, 10-13=-10487/193

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x12 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - WARNING: Required bearing size at joint(s) 21 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 250 lb uplift at joint 21 and 203 lb uplift at joint 13.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 14, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J1118-5041	Truss 1FG1	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	202 BROADLAKE LANE, SPRING LAKE, NC Job Reference (optional)	E13167634
-------------------	---------------	-----------------------------------	----------	----------	---	-----------

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:49:38 2019 Page 2
ID:RQWwY0nO?fA3GhiYKTgTw?zbetT-QUdMt3OuL7YkuW7rYVI_mXwt4MeID_sbjeGIIez6NRR

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 198 lb down and 145 lb up at 1-7-3, 653 lb down at 4-1-0, 2499 lb down at 6-1-0, 653 lb down at 7-7-4, 653 lb down at 8-7-4, 515 lb down at 10-7-4, 515 lb down at 12-7-4, 715 lb down at 14-7-4, 715 lb down at 16-7-4, 715 lb down at 18-7-4, 661 lb down at 20-7-4, 715 lb down at 22-7-4, 715 lb down at 24-7-4, 715 lb down at 26-7-4, 715 lb down at 28-7-4, 715 lb down at 30-7-4, 715 lb down at 32-7-4, 715 lb down at 34-7-4, and 715 lb down at 36-7-4, and 1311 lb down at 38-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-11=-60, 11-12=-20, 13-22=-20

Concentrated Loads (lb)

Vert: 16=-180(F) 23=-186(F) 24=-164(F) 25=-2425(F) 26=-164(F) 27=-164(F) 28=-125(F) 29=-125(F) 30=-180(F) 31=-180(F) 32=-180(F) 33=-161(F) 34=-180(F) 35=-180(F) 38=-180(F) 39=-180(F) 40=-180(F) 41=-180(F) 42=-180(F) 43=-354(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

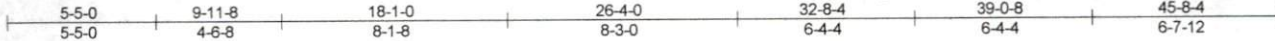


818 Soundside Road
Edenton, NC 27932

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:49:40 2019 Page 1

ID:RQWY0nO?FA3GhiYKTgTw?zbetT-MsLWuIQ8tloS8qHdfwnSry?J8AVZhtCu9yIPN7z6NRP



Scale = 1:82.7

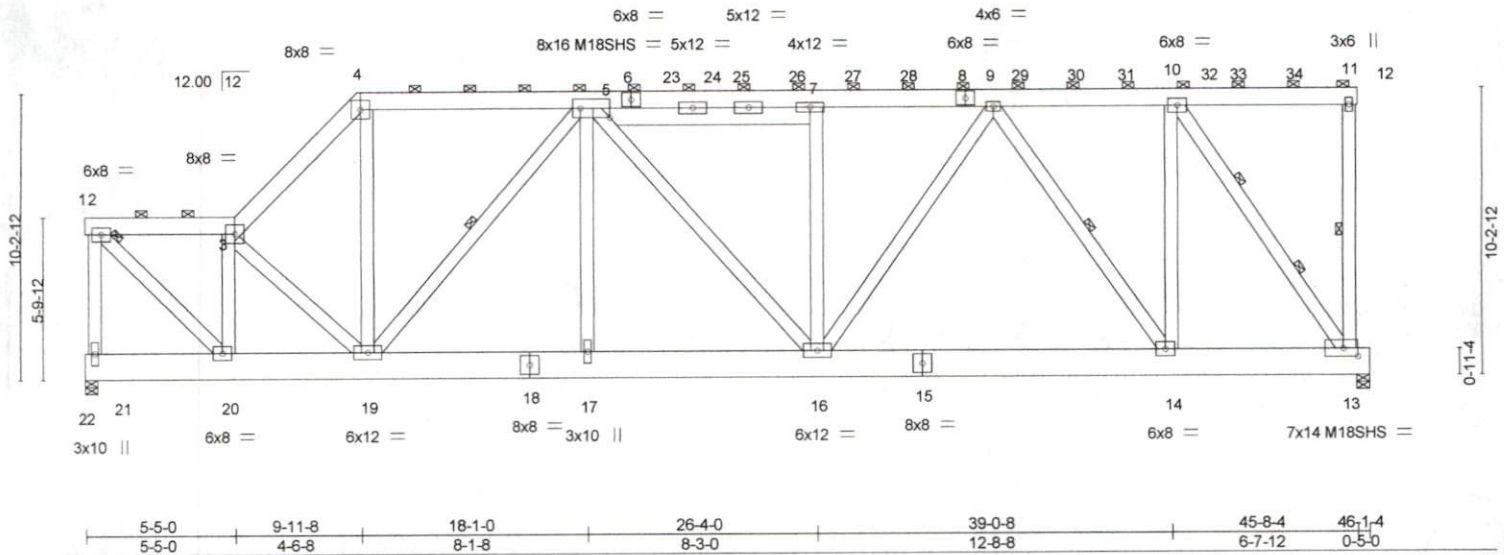


Plate Offsets (X, Y) - [5:Edge,0-4-0], [5:0-2-12,0-0-0], [13:0-6-4,0-3-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.16	16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.31	16	>999	240	M18SHS	244/190
BCLL 0.0	Rep Stress Incr NO	WB 0.80	Horz(CT) 0.08	13	n/a	n/a		
BCDL 20.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09	16	>999	240		
							Weight: 1339 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP 2400F 2.0E
 BOT CHORD 2x12 SP 2400F 2.0E
 WEBS 2x6 SP No. 1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3, 4-12.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 11-13, 5-19, 9-14
 2 Rows at 1/3 pts 10-13

REACTIONS. (lb/size) 21=6247/0-5-8, 13=13550/0-5-8 (req. 0-6-2)
 Max Horz 21=96(LC 8)
 Max Uplift 21=-191(LC 5), 13=-404(LC 5)
 Max Grav 21=6493(LC 2), 13=14764(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-21=6098/200, 2-3=-5802/181, 3-4=-8870/323, 4-5=-6498/261, 5-7=-14238/456,
 7-9=-14134/455, 9-10=-8039/223, 11-13=-2657/82
 BOT CHORD 19-20=-260/6101, 17-19=-449/11986, 16-17=-454/11983, 14-16=-389/12509,
 13-14=-223/8039
 WEBS 2-20=-258/8261, 3-20=-6506/246, 3-19=-58/342, 4-19=-155/6177, 5-19=-7981/298,
 5-16=-336/3410, 7-16=-4678/186, 9-16=-117/2913, 9-14=-8017/299, 10-14=-152/6707,
 10-13=-14301/396

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-5-0 oc.
 Bottom chords connected as follows: 2x12 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 13 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 21 and 404 lb uplift at joint 13.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1262 lb down and 107 lb up at 21-1-4, 1299 lb down and 51 lb up at 21-7-5, 1314 lb down and 45 lb up at 23-7-5, 1314 lb down and 45 lb up at 25-7-5, 1314 lb down and 45 lb up at 27-7-5, 1314 lb down and 45 lb up at 29-7-5, 1314 lb down and 45 lb up at 31-7-5, 1314 lb down and 45 lb up at 33-7-5, 1314 lb down and 45 lb up at 35-7-5, 1350 lb down and 44 lb up at 37-5-0, 1386 lb down and 43 lb up at 39-5-0, 1386 lb down and 43 lb up at 41-5-0, and 1386 lb down and 43 lb up at 43-5-0, and 1401 lb down and 40 lb up at 45-4-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MI-7473 rev. 10/03/2015 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 ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167635
J1118-5041	1FG2	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:49:40 2019 Page 2
 ID:RQWVY0nO?fA3GhiYKTgTw?zbetT-MsLWulQ8toS8qHDfwnSry?J8AVZhtCu9yIPN7z6NRP

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-40, 2-3=-40, 3-4=-40, 4-11=-40, 11-12=-13, 13-22=-27

Concentrated Loads (lb)

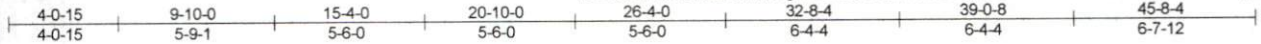
Vert: 8=-1180 11=-1238(F) 23=-1250 24=-1180(F) 25=-1180 26=-1180 27=-1180 28=-1180 29=-1180 30=-1180 31=-1183(F) 32=-1219(F) 33=-1219(F)
 34=-1219(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932



Scale = 1:84.3

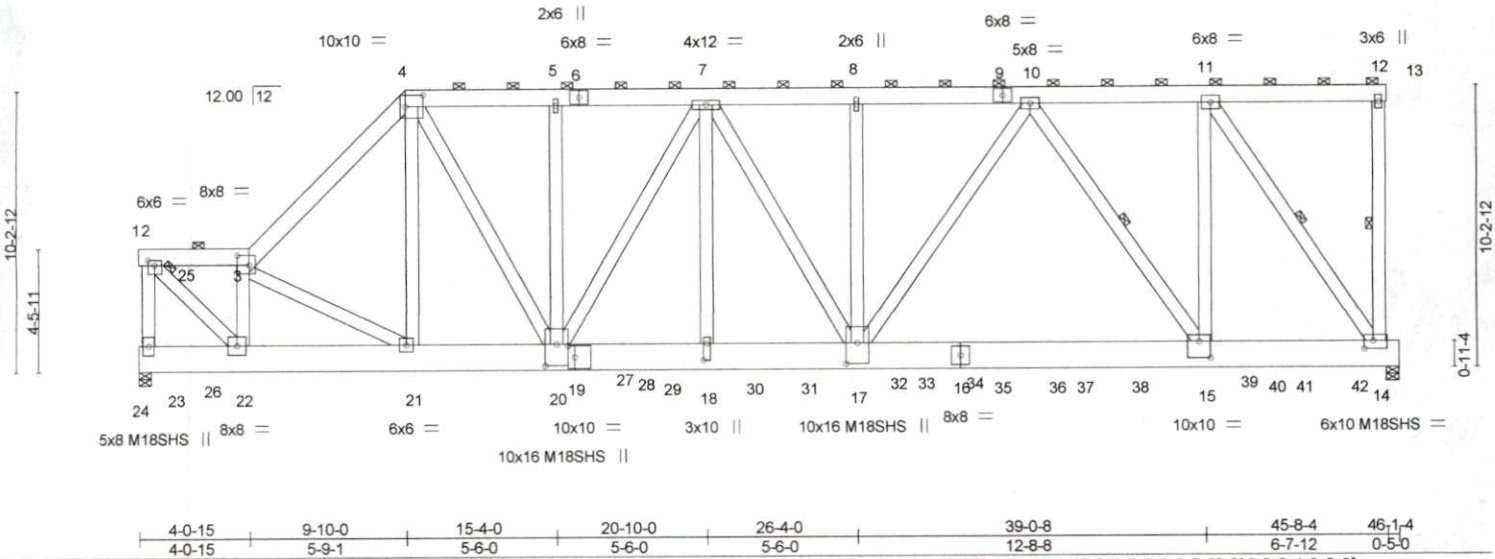


Plate Offsets (X,Y)	[2:0-2-12,0-2-4], [3:0-5-4,0-4-4], [4:0-7-12,0-5-0], [14:0-4-0,0-3-8], [15:0-5-0,0-7-4], [17:0-9-0,0-5-0], [18:0-7-4,0-1-8], [19:0-3-0,0-5-0], [20:0-9-4,0-5-0]
---------------------	---

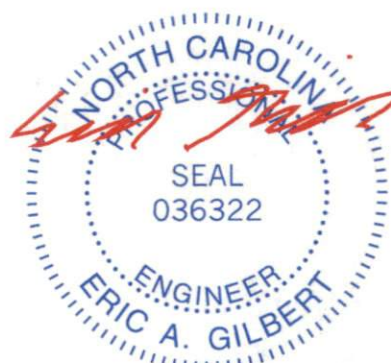
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL)	-0.19 15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.86	Vert(CT)	-0.35 15-17	>999	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.71	Horz(CT)	0.08 14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.12 18-20	>999	240		Weight: 1350 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-3 max.): 1-3, 4-13.
BOT CHORD 2x12 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	WEBS 1 Row at midpt 12-14, 10-15, 11-14

REACTIONS. (lb/size) 23=7340/0-5-8, 14=7762/0-5-8
 Max Horz 23=187(LC 8)
 Max Uplift 23=-524(LC 5), 14=-561(LC 5)
 Max Grav 23=7686(LC 2), 14=8946(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-23=6896/477, 2-3=6515/419, 3-4=10044/706, 4-5=10802/797, 5-7=10799/798,
 7-8=-11925/769, 8-10=-11925/769, 10-11=-5568/337
 BOT CHORD 21-22=-585/6974, 20-21=-551/7088, 18-20=-859/12366, 17-18=-859/12366,
 15-17=-596/8848, 14-15=-337/5568
 WEBS 2-22=-592/9252, 3-22=7318/539, 4-21=-62/354, 4-20=-547/7345, 7-20=-3117/164,
 7-18=-144/3141, 7-17=-1303/202, 8-17=-340/126, 10-17=-311/5518, 10-15=-5881/465,
 11-15=-351/7892, 11-14=-9938/599

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x12 - 2 rows staggered at 0-3-0 oc.
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 524 lb uplift at joint 23 and 561 lb uplift at joint 14.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 14, 2019

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167636
J1118-5041	1FG3	Roof Special Girder	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:49:43 2019 Page 2

ID:RQWY0nO?fA3GhiYKTgTw?zbetT-mR1fWnS09gB1?H0oL2L9TadtCNMMuFSKsvz3_Sz6NRM

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 102 lb down and 83 lb up at 1-8-4 on top chord, and 413 lb down and 50 lb up at 1-8-4, 3612 lb down and 334 lb up at 16-7-4, 1043 lb down and 54 lb up at 18-6-8, 1049 lb down and 54 lb up at 20-6-8, 1043 lb down and 54 lb up at 22-6-8, 1043 lb down and 54 lb up at 24-6-8, 479 lb down and 24 lb up at 26-7-8, 456 lb down and 27 lb up at 28-7-8, 456 lb down and 27 lb up at 30-7-8, 456 lb down and 27 lb up at 33-7-5, 456 lb down and 27 lb up at 34-7-8, 456 lb down and 27 lb up at 36-7-8, 467 lb down and 27 lb up at 38-7-8, 456 lb down and 27 lb up at 40-7-8, and 456 lb down and 27 lb up at 42-7-8, and 467 lb down and 27 lb up at 44-7-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-12=-60, 12-13=-20, 14-24=-20

Concentrated Loads (lb)

Vert: 18=-922(B) 17=-373(B) 25=-60(B) 26=-413(B) 28=-3612(B) 29=-922(B) 30=-922(B) 31=-922(B) 34=-369(B) 35=-369(B) 36=-369(B) 37=-369(B) 38=-369(B) 39=-369(B) 40=-369(B) 41=-369(B) 42=-369(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167637
J1118-5041	2E01	Floor Supported Gable	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:49:45 2019 Page 1
 ID:RQWY0nO?IA3GhiYKTgTw?zbetT-iq8PxTUHHRIEbABSTNdY?IF_BF?MJUJDJSA2Kz6NRK

0-1-8

0-1-8

Scale = 1:13.1

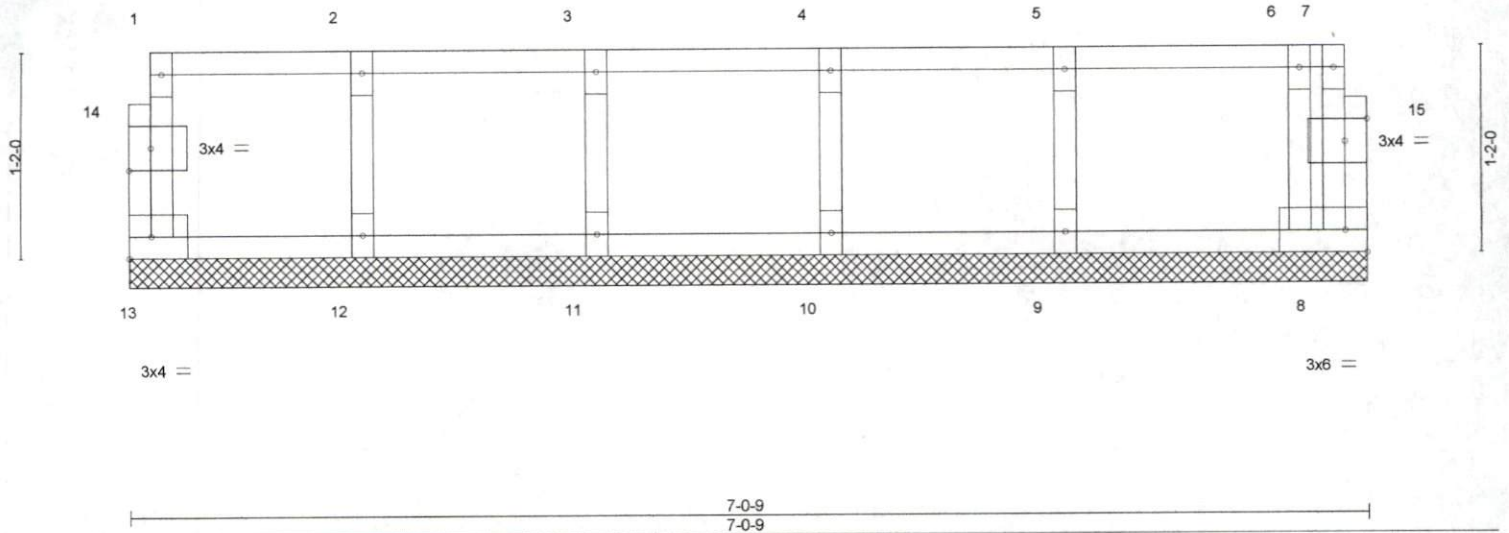


Plate Offsets (X,Y)- [14:0-1-8,0-1-8], [15:0-1-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	8	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R					Weight: 32 lb	FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 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 10-0-0 oc bracing.

REACTIONS. All bearings 7-0-9.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 13, 8, 12, 11, 10, 9

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) 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) Non Standard bearing condition. Review required.
 - 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

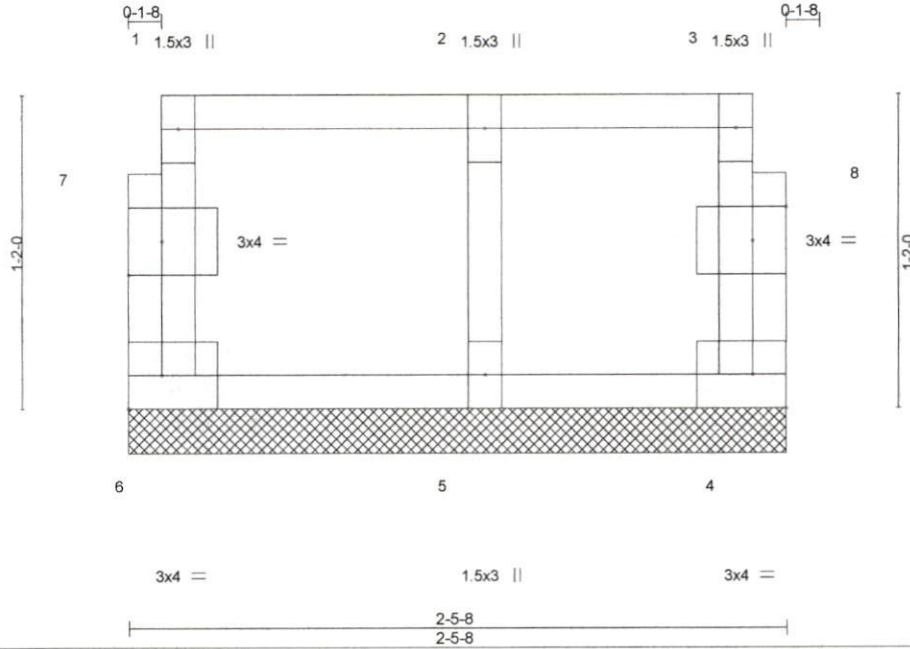


818 Soundside Road
 Edenton, NC 27932

Job J1118-5041	Truss 2E02	Truss Type Floor Supported Gable	Qty 1	Ply 1	202 BROADLAKE LANE, SPRING LAKE, NC Job Reference (optional)	E13167638
-------------------	---------------	-------------------------------------	----------	----------	---	-----------

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:49:46 2019 Page 1
ID:RQWwY0nO?FA3GhiYKTgTw?zbetT-B0in8pVvSbZcsIkN0Aus5DFR6bb05mqnYtCjamz6NRJ



Scale = 1:8.6

Plate Offsets (X,Y)- [7:0-1-8,0-1-8], [8:0-1-8,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Horz(CT)	0.00	4	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-R					Weight: 13 lb	FT = 20%F, 11%E
	Code IRC2015/TPI2014							

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 2-5-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=59/2-5-8, 4=47/2-5-8, 5=124/2-5-8

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.



June 14, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167639
J1118-5041	2E03	Floor Supported Gable	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MITek Industries, Inc. Fri Jun 14 11:49:47 2019 Page 1
 ID:RQWvY0nO?fA3GhiYKTgTw?zbetT-fDGAM8VXDuhTTvJZauP5gQobN_xQqDzwmXxH7Dz6NRI

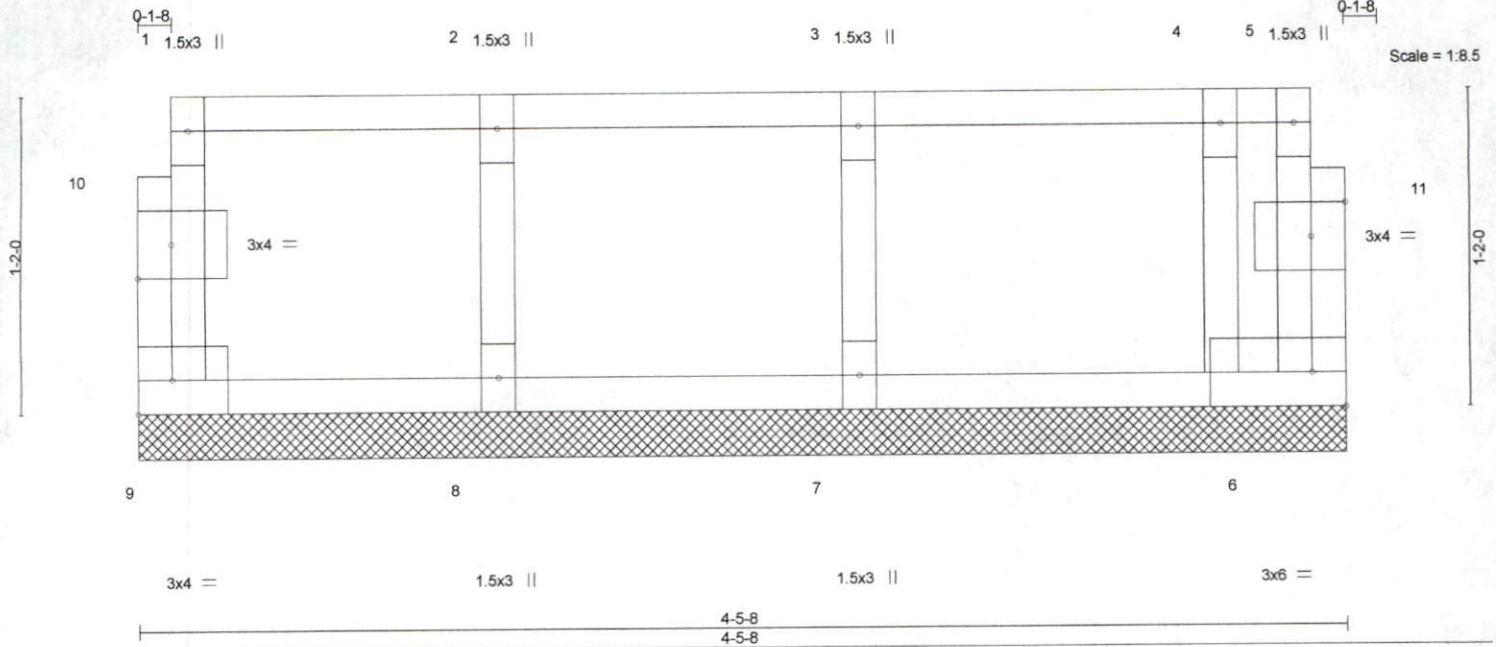


Plate Offsets (X,Y) - [10:0-1-8,0-1-8], [11:0-1-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	6	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R					Weight: 22 lb	FT = 20%F, 11%E

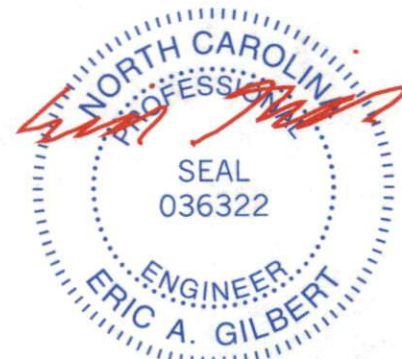
LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-5-8.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 9, 6, 8, 7

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.



June 14, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

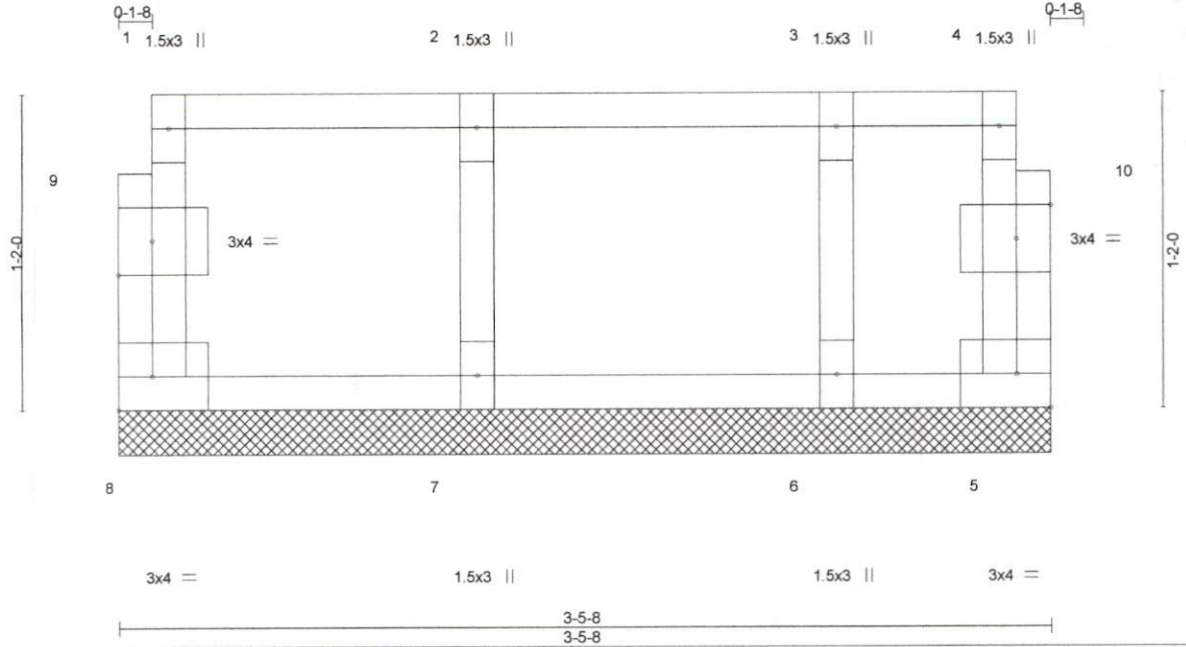
ENGINEERING BY
TRENCO
 A MITek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167640
J1118-5041	2E04	Floor Supported Gable	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:49:48 2019 Page 1
 ID:RQWVY0nO?fA3GhiYKTgTw?zbetT-7PqYZUW9_CpJ52um7bxKAeKnYOHqZgE3?Bhqffz6NRH



Scale = 1:8.6

Plate Offsets (X,Y)— [9:0-1-8,0-1-8], [10:0-1-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Horz(CT)	0.00	5	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-R					Weight: 18 lb	FT = 20%F, 11%E
	Code IRC2015/TPI2014							

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 3-5-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-5-8.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J1118-5041	Truss 2F01	Truss Type Floor	Qty 2	Ply 1	202 BROADLAKE LANE, SPRING LAKE, NC Job Reference (optional)	E13167641
-------------------	---------------	---------------------	----------	----------	---	-----------

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:49:51 2019 Page 1
ID:RQWVY0nO?fA3GhiYKTgTw?zbetT-X_VgCWZ1H7BuyWdKpkU1oGy67cAmpmZW9vUG_z6NRE

0-1-8

1-3-0

1-9-12

2-2-12

0-1-8

Scale = 1:65.2

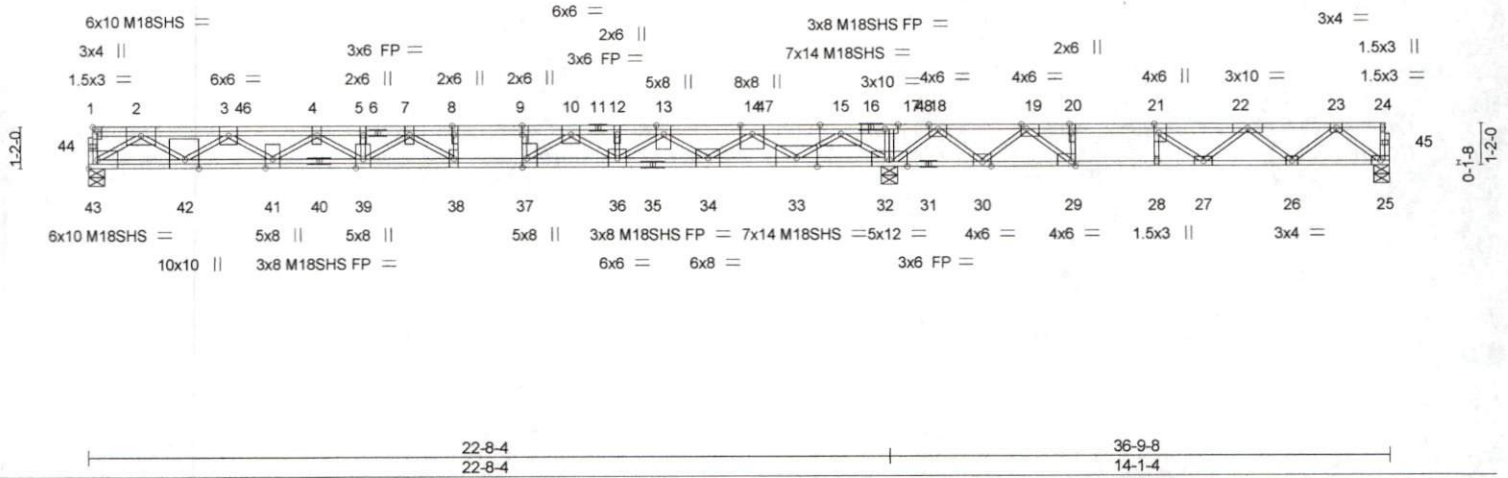


Plate Offsets (X,Y)- [1:Edge,0-1-8], [8:0-3-0,Edge], [9:0-3-0,0-0-0], [17:0-4-8,Edge], [19:0-1-12,Edge], [20:0-3-0,Edge], [21:0-3-0,Edge], [29:0-1-8,Edge], [37:0-3-0,Edge], [42:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.80	Vert(LL)	-0.39	38	>689	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.57	Vert(CT)	-0.62	38	>436	M18SHS	244/190
BCLL 0.0	Rep Stress Incr NO	WB 0.95	Horz(CT)	0.07	32	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 253 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat) *Except*
2-42,15-33: 2x4 SP No.2(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.

(lb/size) 43=1697/0-5-8, 32=3451/0-5-8, 25=373/0-5-4
Max Uplift 25=135(LC 3)
Max Grav 43=1728(LC 3), 32=3451(LC 1), 25=571(LC 4)

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

TOP CHORD 2-3=-4478/0, 3-4=-7249/0, 4-5=-8285/0, 5-7=-8285/0, 7-8=-8201/0, 8-9=-8201/0, 9-10=-8201/0, 10-12=-6643/0, 12-13=-6643/0, 13-14=-4499/0, 14-15=-397/892, 15-17=0/5857, 17-18=0/5864, 18-19=0/3396, 19-20=-1201/1889, 20-21=-1201/1889, 21-22=-1438/1208, 22-23=-1094/442
BOT CHORD 42-43=0/2439, 41-42=0/6483, 39-41=0/8013, 38-39=0/8438, 37-38=0/8201, 36-37=0/7432, 34-36=0/5805, 33-34=0/3139, 32-33=-3013/0, 30-32=-3945/0, 29-30=-2804/402, 28-29=-1889/1201, 27-28=-1889/1201, 26-27=-760/1546, 25-26=-209/691
WEBS 2-43=-2925/0, 2-42=0/2528, 3-42=-2487/0, 3-41=0/950, 4-41=-946/0, 4-39=-14/394, 15-32=-3527/0, 15-33=0/3384, 14-33=-3455/0, 14-34=0/1740, 13-34=-1669/0, 13-36=0/1076, 10-36=-1051/0, 10-37=0/1465, 7-39=-379/194, 7-38=-894/401, 8-38=-177/284, 9-37=-572/0, 23-25=-864/264, 23-26=-303/519, 22-26=-552/385, 22-27=-649/0, 21-27=0/950, 18-32=-2459/0, 18-30=0/1332, 19-30=-1449/0, 19-29=0/1852, 20-29=-1074/0

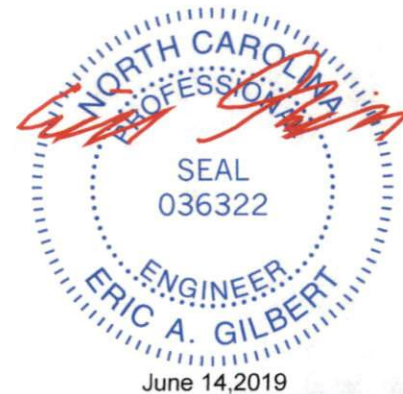
NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 25.
- Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 25-43=-10, 1-24=-100

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167641
J1118-5041	2F01	Floor	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:49:51 2019 Page 2
 ID:RQWvY0nO?fA3GhiYKTgTw?zbetT-X_VgCWZ1H7BuyWdKpkU1oGy67cAmpZW9vUG_z6NRE

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 46=-702 47=-812

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167642
J1118-5041	2F01A	Floor	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:49:54 2019 Page 1
 ID:RQWY0n0?fA3GhiYKtGTw?zbetT-yZBpqYbwa2ZTzPzVUUs1kQvaeBPzBcyN788sJz6NRB

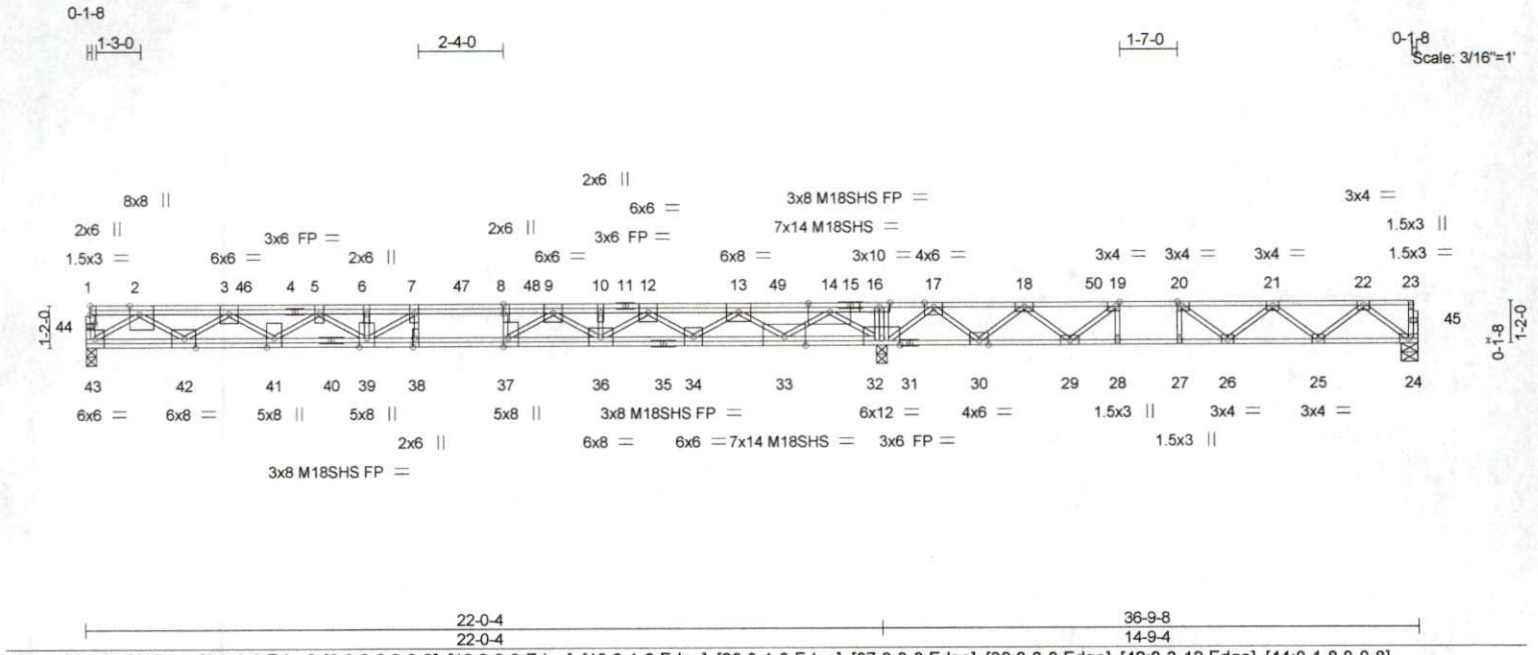


Plate Offsets (X, Y) - [2:0-3-0, Edge], [8:0-3-0, 0-0-0], [16:0-3-8, Edge], [19:0-1-8, Edge], [20:0-1-8, Edge], [37:0-3-0, Edge], [38:0-3-0, Edge], [42:0-3-12, Edge], [44:0-1-8, 0-0-8]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.75	Vert(LL) -0.31 38 >836 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.64	Vert(CT) -0.51 38 >513 360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr NO	WB 0.87	Horz(CT) 0.04 32 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 244 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat) *Except* 2-42, 14-33: 2x4 SP No.2(flat)	

REACTIONS. (lb/size) 43=1641/0-3-8, 32=3423/0-3-8, 24=456/0-5-8
 Max Uplift 24=-32(LC 3)
 Max Grav 43=1641(LC 1), 32=3423(LC 1), 24=619(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4127/0, 3-5=-6663/0, 5-6=-7478/0, 6-7=-7478/0, 7-8=-7275/0, 8-9=-7275/0,
 9-10=-5677/0, 10-12=-5677/0, 12-13=-3650/0, 13-14=-503/768, 14-16=0/5486,
 16-17=0/5492, 17-18=0/2387, 18-19=-928/1559, 19-20=-1562/977, 20-21=-1649/537,
 21-22=-1186/172
BOT CHORD 42-43=0/2366, 41-42=0/6015, 39-41=0/7303, 38-39=0/7275, 37-38=0/7275, 36-37=0/6456,
 34-36=0/4711, 33-34=0/2580, 32-33=-2584/0, 30-32=-3330/0, 29-30=-1970/411,
 28-29=-977/1562, 27-28=-977/1562, 26-27=-977/1562, 25-26=-289/1603, 24-25=-74/746
WEBS 2-43=-2759/0, 2-42=0/2188, 3-42=-2341/0, 3-41=0/866, 5-41=-844/0, 5-39=-46/372,
 14-32=-3598/0, 14-33=0/3087, 13-33=-3171/0, 13-34=0/1435, 12-34=-1354/0,
 12-36=0/1178, 9-36=-950/0, 9-37=0/1260, 7-39=-361/556, 8-37=-510/0, 22-24=-933/94,
 22-25=-127/573, 21-25=-543/153, 21-26=-322/60, 20-26=0/608, 17-32=-2517/0,
 17-30=0/1409, 18-30=-1267/0, 18-29=0/947, 19-29=-1241/0, 19-28=0/413, 20-27=-382/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x6 MT20 unless otherwise indicated.
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 24.
 - 6) Required 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: 24-43=-10, 1-23=-100
 Concentrated Loads (lb)
 Vert: 46=-702 49=-812



Job J1118-5041	Truss 2F01GR	Truss Type FLOOR	Qty 1	Ply 2	202 BROADLAKE LANE, SPRING LAKE, NC Job Reference (optional)	E13167643
-------------------	-----------------	---------------------	----------	----------	---	-----------

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:49:57 2019 Page 1
ID:RQWwY0n0?A3GhiYKTgTw?zbetT-M8lySZdoszx2gr4U9_bR1XCAI0DuAYIO45MpTez6NR8

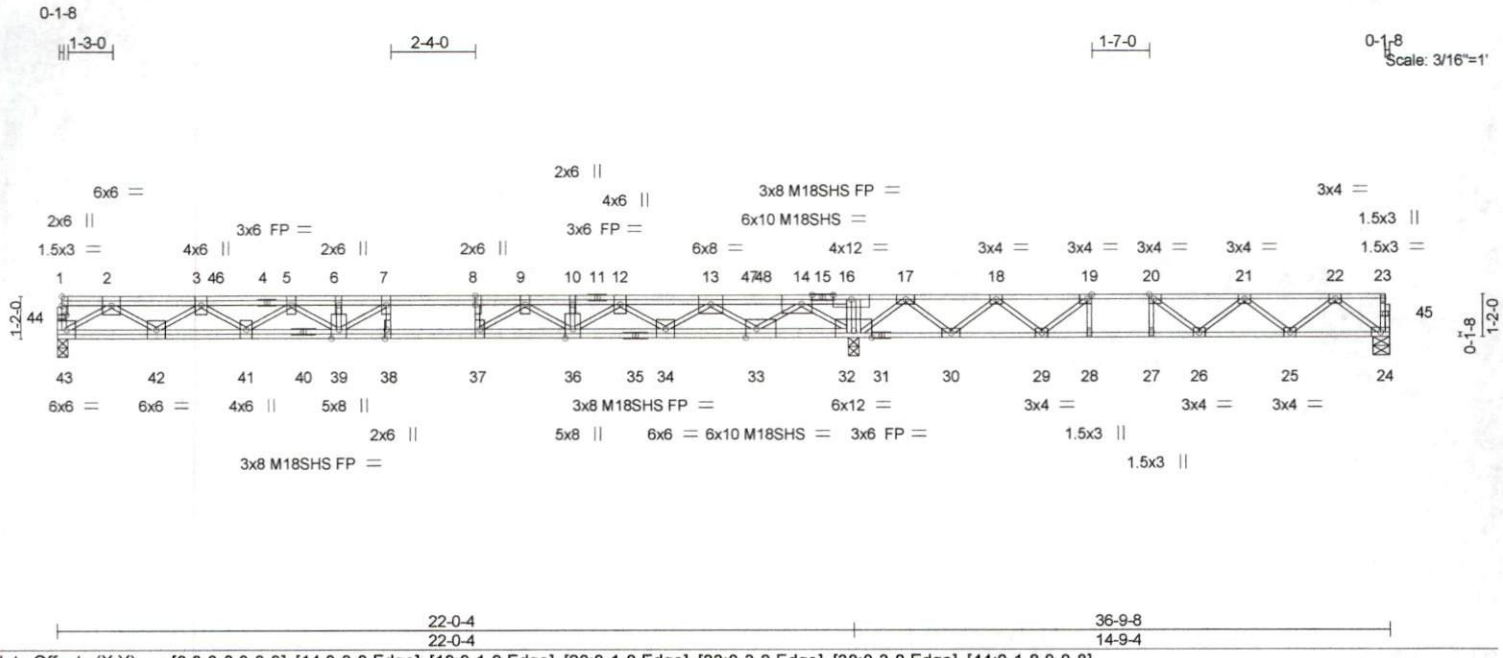


Plate Offsets (X, Y)- [8:0-3-0,0-0-0], [14:0-3-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge], [33:0-3-8,Edge], [38:0-3-0,Edge], [44:0-1-8,0-0-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.60	Vert(LL) -0.25	37	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.53	Vert(CT) -0.43	37	>607	360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr NO	WB 0.85	Horz(CT) 0.04	32	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 487 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2400F 2.0E(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat) *Except* 14-33: 2x4 SP No.2(flat)	

REACTIONS. (lb/size) 43=2045/0-3-8, 32=5699/0-3-8, 24=224/0-5-8
Max Uplift 24=-264(LC 3)
Max Grav 43=2045(LC 1), 32=5699(LC 1), 24=373(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5237/0, 3-5=-8872/0, 5-6=-10712/0, 6-7=-10712/0, 7-8=-11736/0, 8-9=-11736/0, 9-10=-11840/0, 10-12=-11840/0, 12-13=-8913/0, 13-14=-2075/0, 14-16=0/9083, 16-17=0/9091, 17-18=0/5022, 18-19=0/3652, 19-20=0/2591, 20-21=-436/1679, 21-22=-571/751
BOT CHORD 42-43=0/2978, 41-42=0/7672, 39-41=0/10042, 38-39=0/11736, 37-38=0/11736, 36-37=0/11971, 34-36=0/11305, 33-34=0/6559, 32-33=-3357/0, 30-32=-6279/0, 29-30=-4362/0, 28-29=-2591/0, 27-28=-2591/0, 26-27=-2591/0, 25-26=-1120/721, 24-25=-388/413
WEBS 16-32=0/289, 2-43=-3473/0, 2-42=0/2807, 3-42=-3019/0, 3-41=0/1552, 5-41=-1500/0, 5-39=0/977, 6-39=0/329, 14-32=-7101/0, 14-33=0/5995, 13-33=-6156/0, 13-34=0/3027, 12-34=-3004/0, 12-36=-109/652, 9-36=-160/477, 9-37=-963/0, 7-39=-1894/0, 7-38=0/409, 8-37=-0/327, 22-24=-515/488, 22-25=-473/205, 21-25=-196/480, 21-26=-728/0, 20-26=0/1255, 17-32=-3274/0, 17-30=0/1817, 18-30=-1584/0, 18-29=0/1336, 19-29=-1851/0, 19-28=0/683, 20-27=-647/0

- NOTES-**
- 1) Fasten trusses together to act as a single unit as per standard industry detail, or loads are to be evenly applied to all plies.
 - 2) Unbalanced floor live loads have been considered for this design.
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) All plates are 3x6 MT20 unless otherwise indicated.
 - 5) Plates checked for a plus or minus 1 degree rotation about its center.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 24.
 - 7) Required 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) 1558 lb down at 15-4-9, and 1051 lb down at 18-9-8 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
Continued on page 2



Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167643
J1118-5041	2F01GR	FLOOR	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:49:57 2019 Page 2
 ID:RQWwY0nO?fA3GhiYKTgTw?zbetT-M8tySZdoszx2gR4U9_br1XCAI0DuAYIO45MpTez6NR8

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 24-43=-10, 1-23=-100

Concentrated Loads (lb)

Vert: 12=-1478(B) 46=-702 47=-812 48=-971(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27832

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167644
J1118-5041	2F02	Floor	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:49:58 2019 Page 1
ID:RQWY0nO?FA3GhiYKTgTw?zbetT-qKRGveQdG3vIbfhji6gallLwQTFv61YII6M?4z6NR7

1-3-0 | 0-6-4

2-4-0

0-1-8

Scale = 1:29.7

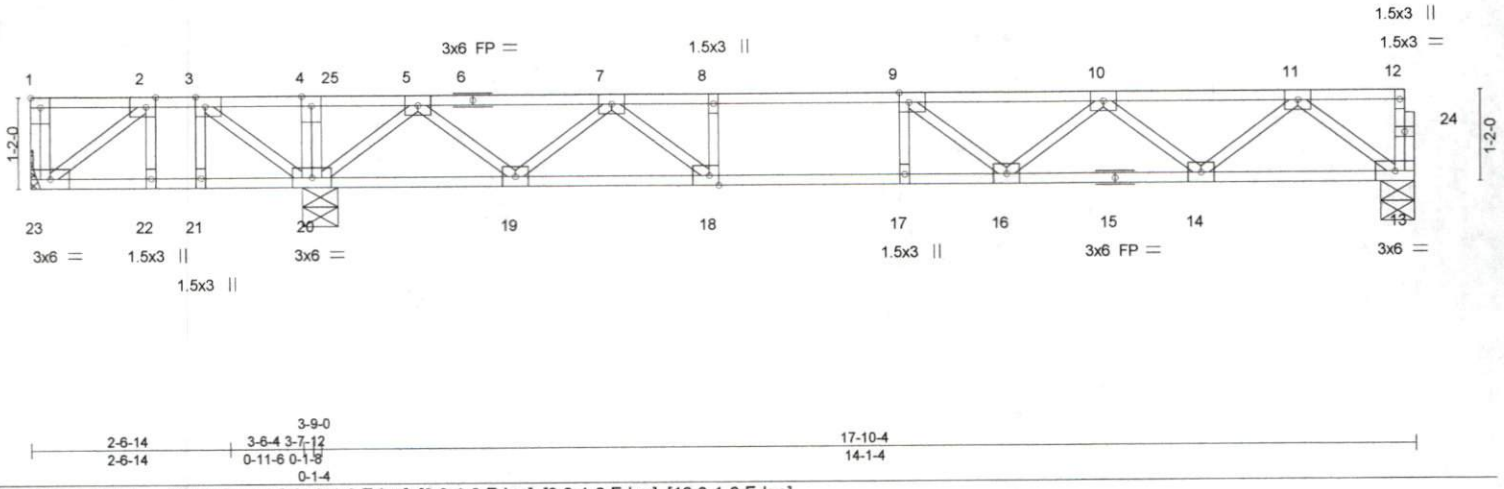


Plate Offsets (X, Y) - [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.64	Vert(LL)	-0.19 16-17	>906	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.90	Vert(CT)	-0.25 16-17	>674	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.40	Horz(CT)	0.03 13	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 92 lb	FT = 20%F, 11%E

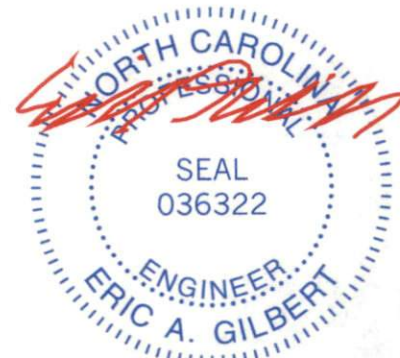
LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)

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. (lb/size) 23=28/Mechanical, 20=1245/0-5-8, 13=713/0-5-4
 Max Uplift 23=165(LC 4)
 Max Grav 23=129(LC 3), 20=1245(LC 1), 13=715(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=62/321, 3-4=0/910, 4-5=0/910, 5-7=946/0, 7-8=2162/0, 8-9=2162/0, 9-10=2121/0, 10-11=1426/0
 BOT CHORD 22-23=321/62, 21-22=321/62, 20-21=321/62, 19-20=27/351, 18-19=0/1603, 17-18=0/2162, 16-17=0/2162, 14-16=0/1957, 13-14=0/873
 WEBS 11-13=1092/0, 11-14=0/721, 10-14=690/0, 10-16=0/269, 5-20=1280/0, 5-19=0/832, 7-19=865/0, 7-18=0/790, 8-18=334/0, 2-23=76/396, 3-20=769/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 23.
 - 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.



June 14, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167645
J1118-5041	2F02A	Floor	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:49:59 2019 Page 1

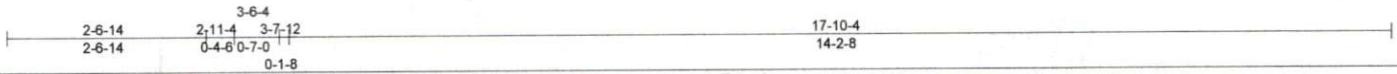
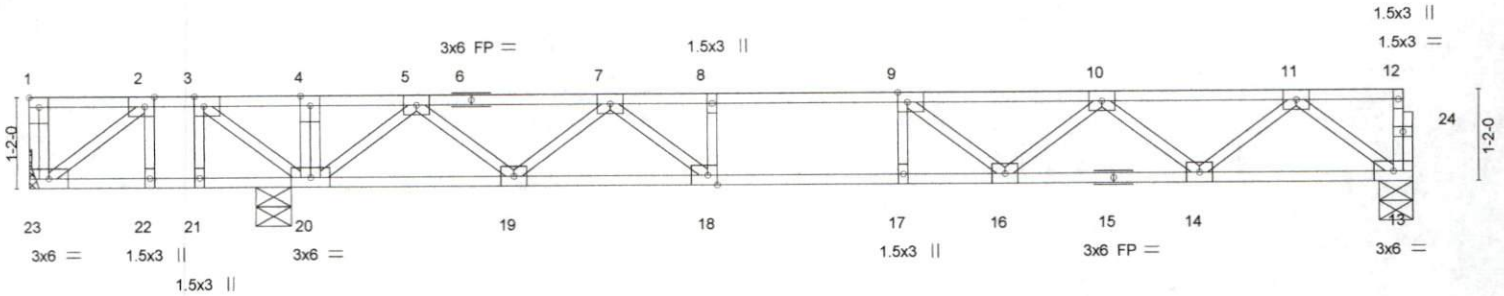
ID:RQWVY0nO?fA3GhiYKTgTw?zbetT-IW_itFF3OaCmviETHPdv7ylWgqpUeZHHXPrvYVWz6NR6

1-3-0 | 0-6-4

2-4-0

0-1-8

Scale = 1:29.7



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.64	Vert(LL)	-0.19 16-17	>906	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.90	Vert(CT)	-0.25 16-17	>674	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.40	Horz(CT)	0.03 13	n/a	n/a		
BCDL 5.0	Code IRC2015/TP12014	Matrix-S					Weight: 92 lb	FT = 20%F, 11%E

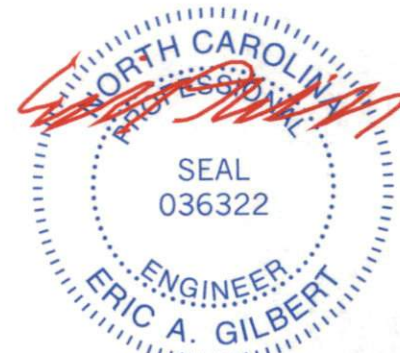
LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 23=-28/Mechanical, 20=1245/0-5-8, 13=713/0-5-4
 Max Uplift 23=-166(LC 4)
 Max Grav 23=129(LC 3), 20=1245(LC 1), 13=715(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-63/322, 3-4=0/910, 4-5=0/910, 5-7=-946/0, 7-8=-2162/0, 8-9=-2162/0, 9-10=-2121/0, 10-11=-1426/0
 BOT CHORD 22-23=-322/63, 21-22=-322/63, 20-21=-322/63, 19-20=-27/351, 18-19=0/1603, 17-18=0/2162, 16-17=0/2162, 14-16=0/1957, 13-14=0/873
 WEBS 11-13=-1092/0, 11-14=0/721, 10-14=-690/0, 10-16=0/269, 5-20=-1280/0, 5-19=0/832, 7-19=-865/0, 7-18=0/790, 8-18=-334/0, 2-23=-78/398, 3-20=-769/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 23.
 - 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.



June 14, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167646
J1118-5041	2F02GR	Floor Girder	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:01 2019 Page 1
 ID:RQWVY0nO7fA3GhiYKTgT7zbeT-Ev6SxgJwBST92OFoqfNCNNwveeK6Vb__JKcPz6NR4



Scale = 1:28.6

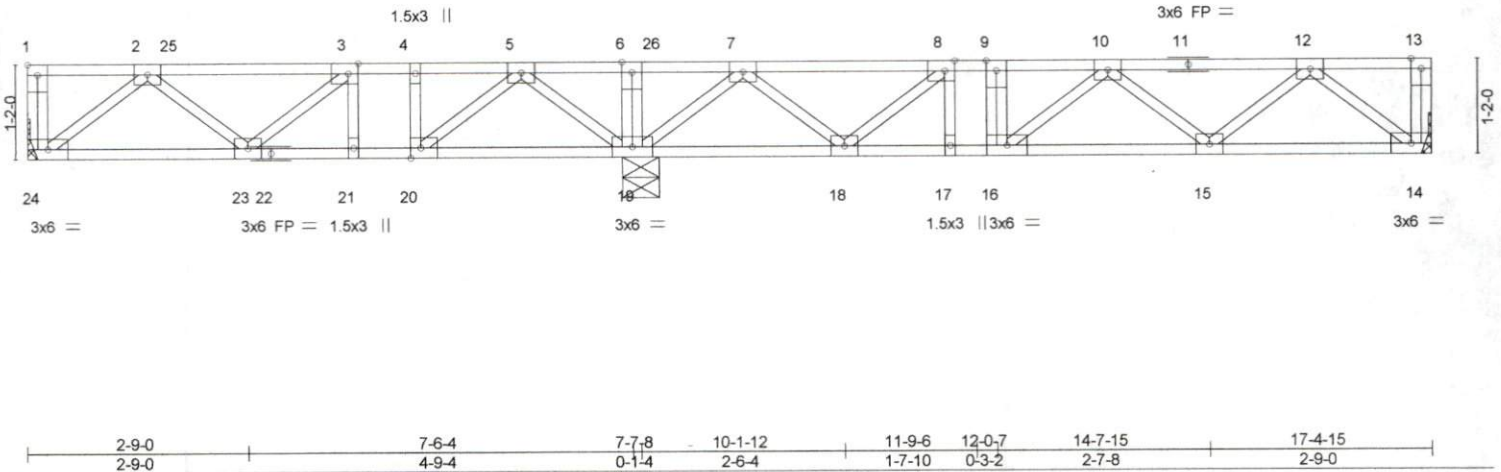


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [8:0-1-8,Edge], [20:0-1-8,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.34	Vert(LL) -0.03	21-23	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.37	Vert(CT) -0.04	15-16	>999	360		
BCLL 0.0	Rep Stress Incr NO	WB 0.28	Horz(CT) 0.01	14	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 94 lb	FT = 20%F, 11%E

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

REACTIONS. (lb/size) 24=346/Mechanical, 19=1169/0-5-8, 14=658/Mechanical
 Max Uplift 24=-225(LC 18)
 Max Grav 24=404(LC 3), 19=1169(LC 1), 14=681(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-592/491, 3-4=-618/667, 4-5=-618/667, 5-6=0/721, 6-7=0/721, 7-8=-583/0, 8-9=-960/0, 9-10=-960/0, 10-12=-824/0
 BOT CHORD 23-24=-349/487, 21-23=-667/618, 20-21=-667/618, 19-20=-678/254, 17-18=0/960, 16-17=0/960, 15-16=0/1037, 14-15=0/572
 WEBS 2-24=-611/437, 5-19=-782/230, 5-20=0/584, 12-14=-717/0, 7-19=-905/0, 12-15=0/328, 7-18=0/537, 10-15=-278/0, 8-18=-529/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 24.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 109 lb down and 266 lb up at 1-10-4, and 109 lb down and 266 lb up at 3-10-4, and 109 lb down and 265 lb up at 5-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 14-24=-10, 1-13=-100
 Concentrated Loads (lb)
 Vert: 13=-198 5=-29(F) 3=-29(F) 25=-29(F)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167647
J1118-5041	2F03	Floor	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:02 2019 Page 1
ID:RQWY0nO?FA3GhiYKTgTw?zbetT-j5gqVHhxhVaKmCzSyXBckbv1h1uTrp17DN4Z9rZ6NR3

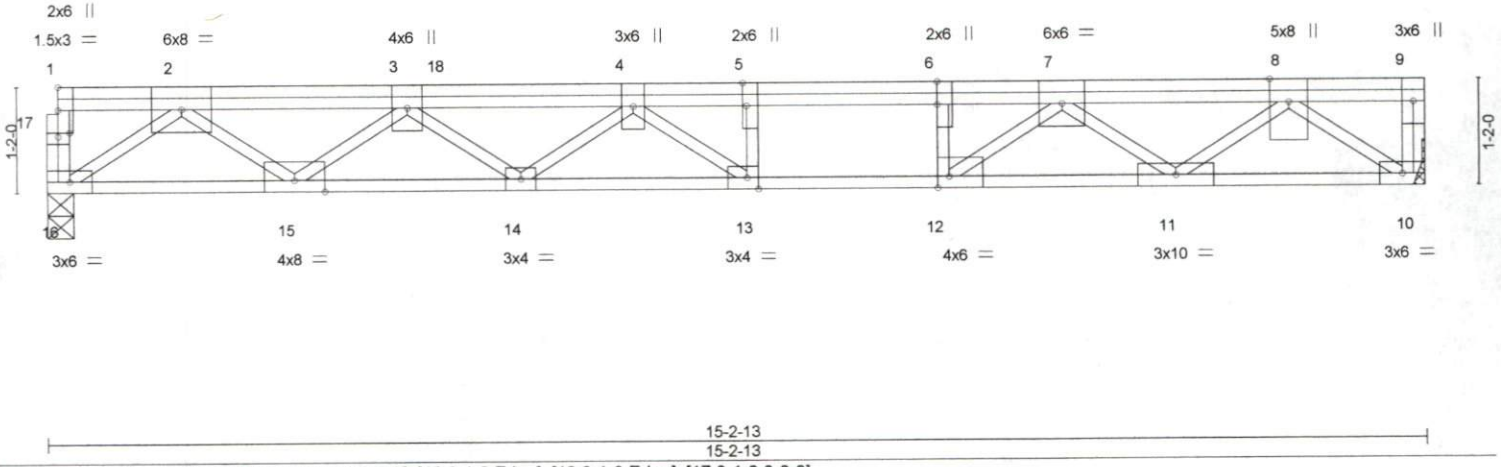


Plate Offsets (X,Y)- [5:0-3-0,Edge], [6:0-3-0,0-0-0], [12:0-1-8,Edge], [13:0-1-8,Edge], [17:0-1-8,0-0-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.59	Vert(LL) -0.19	13-14	>951	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.69	Vert(CT) -0.31	13-14	>580	360		
BCLL 0.0	Rep Stress Incr NO	WB 0.84	Horz(CT) 0.06	10	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 97 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 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 10-0-0 oc bracing.

REACTIONS. (lb/size) 16=1319/0-3-8, 10=1025/Mechanical

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

TOP CHORD 2-3=-3126/0, 3-4=-4738/0, 4-5=-4266/0, 5-6=-4266/0, 6-7=-4266/0, 7-8=-2272/0
BOT CHORD 15-16=0/1733, 14-15=0/4496, 13-14=0/4908, 12-13=0/4266, 11-12=0/3183, 10-11=0/1363
WEBS 2-16=-2122/0, 2-15=0/1770, 3-15=-1740/0, 3-14=0/364, 4-14=-286/0, 4-13=-801/0, 5-13=0/424, 8-10=-1673/0, 8-11=0/1154, 7-11=-1158/0, 7-12=0/1351, 6-12=-708/0

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: 10-16=-10, 1-9=-100
Concentrated Loads (lb)
Vert: 18=-702



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

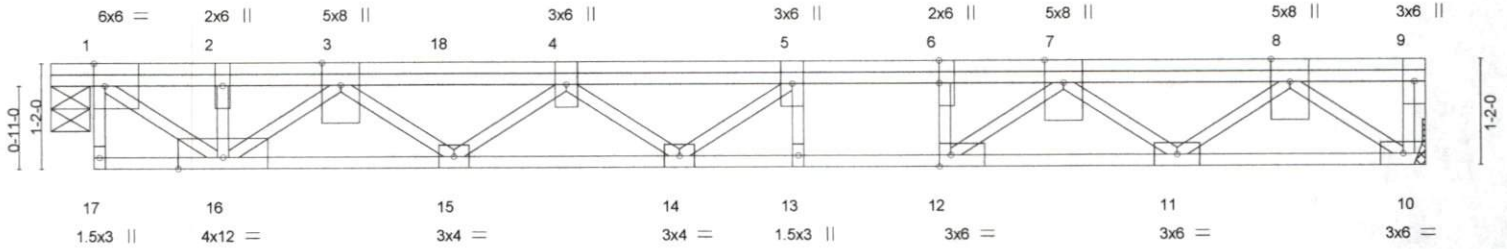
Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167648
J1118-5041	2F03A	Floor	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:03 2019 Page 1
ID:RQWVY0n0?A3GhiYKTgTw?zbetT-BIEDjdiZSpiBOMYeWfirHoSB5RFuaDrHS1p7hHz6NR2



Scale = 1:25.5



0-5-12, 0-5-12, 15-2-13, 14-9-1

Plate Offsets (X,Y) - [1:0-1-8,Edge], [6:0-3-0,0-0-0], [12:0-1-8,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 0.68	Vert(LL)	-0.16 13-14	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.62	Vert(CT)	-0.25 13-14	>696	360		
BCLL 0.0	Rep Stress Incr	NO	WB 1.00	Horz(CT)	0.01 10	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S					Weight: 96 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 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 10-0-0 oc bracing.

REACTIONS. (lb/size) 10=988/Mechanical, 1=1316/0-5-4

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

TOP CHORD 1-2=-1708/0, 2-3=-1708/0, 3-4=-4039/0, 4-5=-4403/0, 5-6=-3980/0, 6-7=-3980/0, 7-8=-2179/0
BOT CHORD 15-16=0/3357, 14-15=0/4700, 13-14=0/3980, 12-13=0/3980, 11-12=0/3048, 10-11=0/1308
WEBS 1-16=0/2097, 3-16=-2058/0, 3-15=0/866, 4-15=-840/0, 4-14=-378/17, 5-14=0/527, 8-10=-1606/0, 8-11=0/1107, 7-11=-1103/0, 7-12=0/1163, 6-12=-585/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert 10-17=-10, 1-9=-100
Concentrated Loads (lb)
Vert 18=-702



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 ANSITPII Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

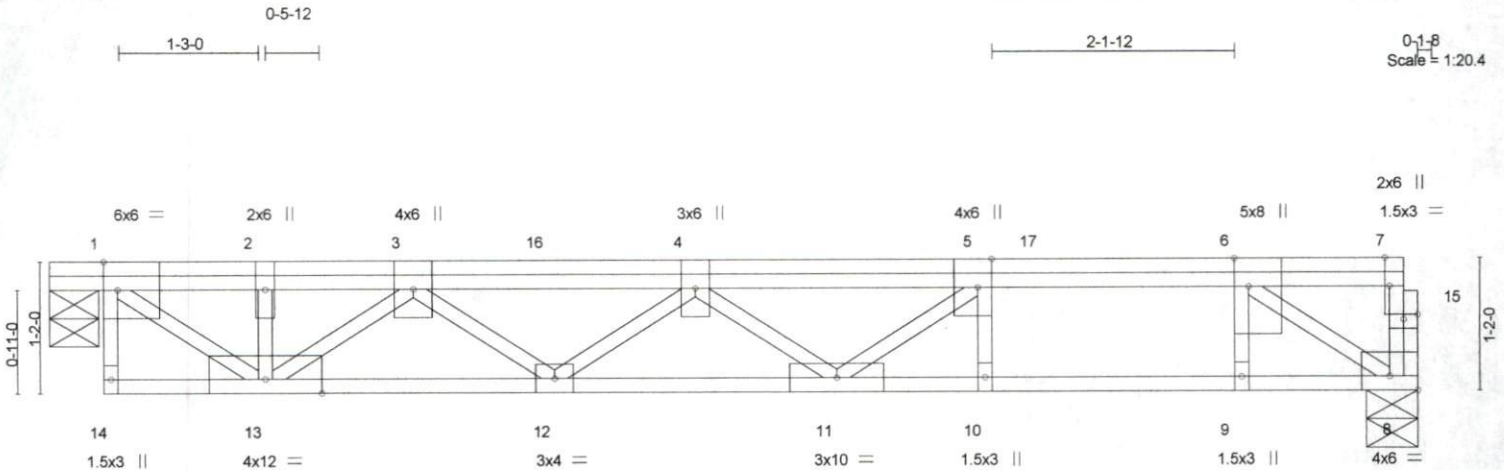
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167649
J1118-5041	2F03GR	Floor Girder	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:04 2019 Page 1
ID:RQWVY0nO?fA3GhiYKTgTw?zbetT-fUJobwyjBD6q20W7q3yD4q0?HurXbJi_QhhZgDkz6NR1



0-5-12	12-1-8
0-5-12	11-7-12
Plate Offsets (X,Y)-- [1:0-1-8,Edge], [5:0-3-0,Edge], [6:0-3-0,Edge], [7:0-3-0,Edge], [8:Edge,0-1-8], [15:0-1-8,0-0-8]	

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 0.99	Vert(LL)	-0.19 10-11	>709	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.84	Vert(CT)	-0.31 10-11	>446	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.88	Horz(CT)	-0.02 8	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S					Weight: 75 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 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 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=1129/0-5-8, 1=1163/0-5-4

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

TOP CHORD 7-8=0/443, 1-2=1501/0, 2-3=1501/0, 3-4=3450/0, 4-5=3317/0, 5-6=2360/0
BOT CHORD 12-13=0/2914, 11-12=0/3982, 10-11=0/2360, 9-10=0/2360, 8-9=0/2360
WEBS 1-13=0/1843, 3-13=1763/0, 3-12=0/680, 4-12=675/0, 4-11=848/0, 5-11=0/1200, 5-10=294/0, 6-8=2885/0, 6-9=0/285

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-7=-100
Concentrated Loads (lb)
Vert: 6=-168 16=-702 17=-168



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167650
J1118-5041	2F04	Floor	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:05 2019 Page 1
 ID:RQWVY0nO?fA3GhiYKTgTw?zbetT-7gMz8ljp_Qyvdgh1dgkJMDXfYF2T2KLavLIEIAz6NR0



Scale = 1:17.5

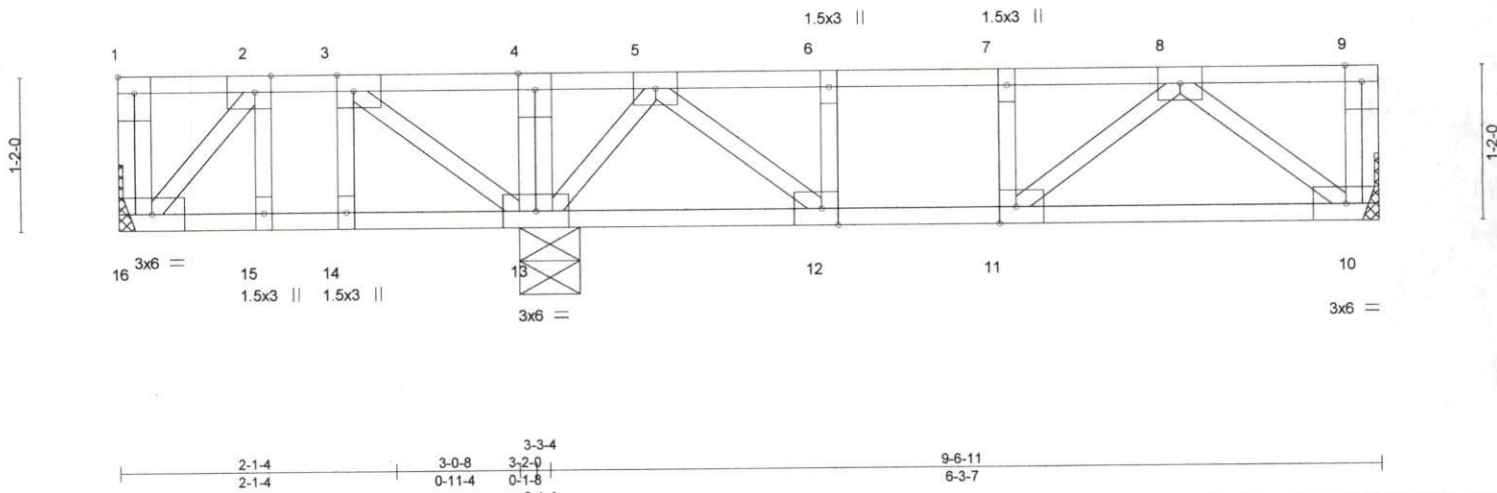


Plate Offsets (X, Y) - [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.17	Vert(LL)	-0.02	10-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.16	Vert(CT)	-0.02	10-11	>999		
BCLL 0.0	Rep Stress Incr NO	WB 0.17	Horz(CT)	0.00	10	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 55 lb	FT = 20%F, 11%E

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

BRACING-
 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. (lb/size) 16=138/Mechanical, 10=529/Mechanical, 13=555/0-5-8
 Max Grav 16=174(LC 10), 10=535(LC 7), 13=555(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 9-10=-251/0, 5-6=-482/0, 6-7=-482/0, 7-8=-482/0
 BOT CHORD 11-12=0/482, 10-11=0/355
 WEBS 8-10=-445/0, 5-13=-401/0, 5-12=0/349

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

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 10-16=-10, 1-9=100
 Concentrated Loads (lb)
 Vert: 9=-198



June 14, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

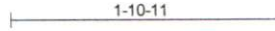
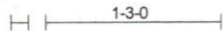
Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167651
J1118-5041	2F04A	Floor	3	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:06 2019 Page 1

ID:RQWvY0nO?FA3GhiYKtGTw?zbetT-btvLLekSlk4mFpGDBNFYvR4mXfJpnmCj8_2nlcz6NR?

0-1-8



Scale = 1:16.3

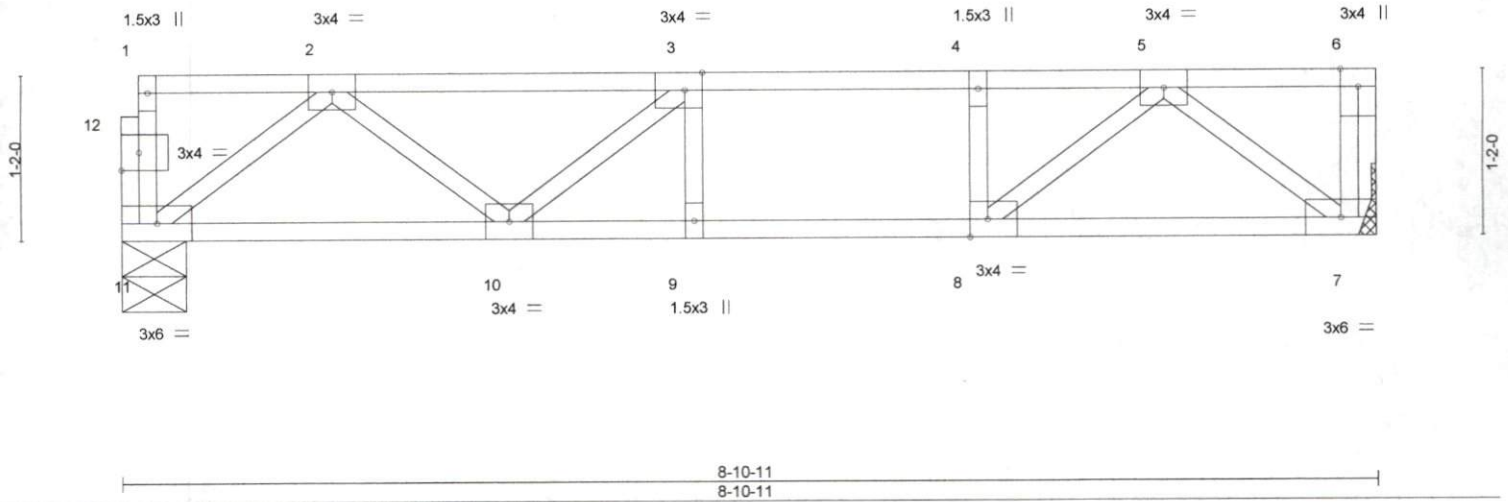


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [8:0-1-8,Edge], [12:0-1-8,0-1-8]

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 0.41	Vert(LL)	-0.06	9-10	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.50	Vert(CT)	-0.08	9-10	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.26	Horz(CT)	0.01	7	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						Weight: 46 lb	FT = 20%F, 11%E

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

BRACING-
 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. (lb/size) 11=469/0-5-8, 7=673/Mechanical

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

TOP CHORD 6-7=-263/0, 2-3=-797/0, 3-4=-942/0, 4-5=-942/0
 BOT CHORD 10-11=0/577, 9-10=0/942, 8-9=0/942, 7-8=0/542
 WEBS 2-11=-722/0, 2-10=0/287, 5-7=-680/0, 5-8=0/536

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: 7-11=-10, 1-6=-100
 Concentrated Loads (lb)
 Vert: 6=-198



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167652
J1118-5041	2F04B	FLOOR	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:06 2019 Page 1
 ID:RQWVY0nO?fA3GhiYKTgTw?zbetT-btvLLekSlk4mFpGDBNFYvR4jxfEDnc8j8_2nlcz6NR?



Scale = 1:16.6

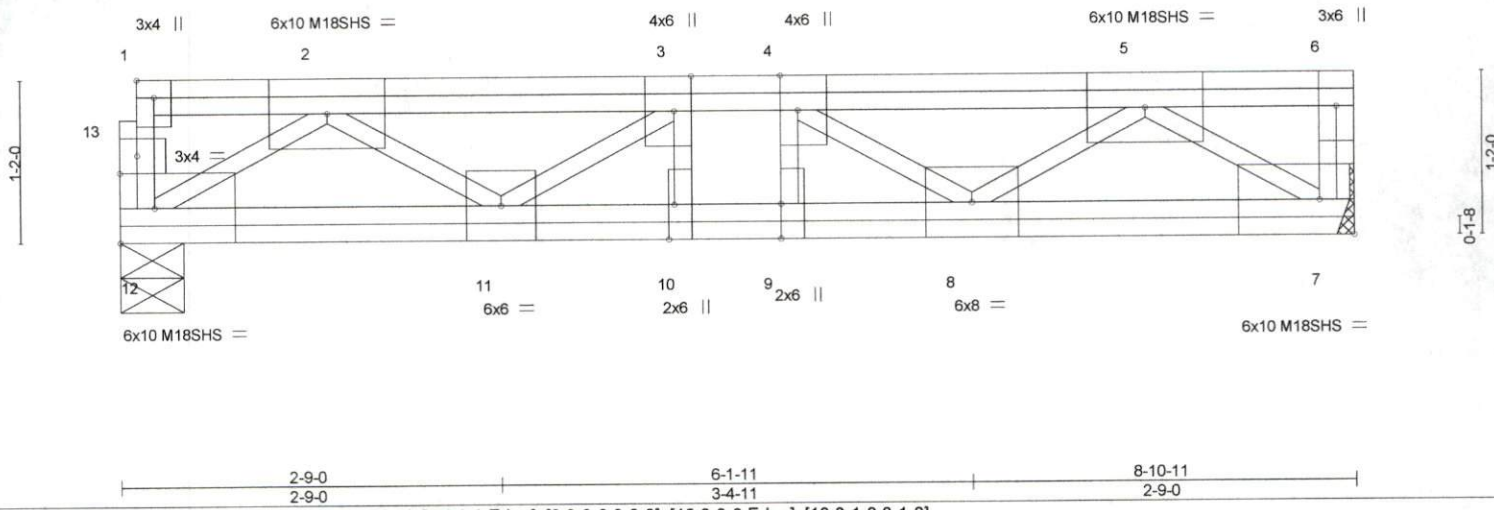


Plate Offsets (X,Y)- [1:Edge,0-1-8], [3:0-3-0,Edge], [4:0-3-0,Edge], [9:0-3-0,0-0-0], [10:0-3-0,Edge], [13:0-1-8,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.64	Vert(LL)	-0.05	10	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.77	Vert(CT)	-0.12	9	>874	360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr NO	WB 0.84	Horz(CT)	0.03	7	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S							
								Weight: 71 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat) *Except* 5-7,2-12: 2x4 SP No.2(flat)	

REACTIONS. (lb/size) 12=2788/0-5-8, 7=2788/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 6-7=-255/0, 2-3=-5100/0, 3-4=-6609/0, 4-5=-5170/0
 BOT CHORD 11-12=0/3884, 10-11=0/6609, 9-10=0/6609, 8-9=0/6609, 7-8=0/3755
 WEBS 5-7=-4513/0, 2-12=-4529/0, 5-8=0/1755, 2-11=0/1514, 4-8=-1755/0, 3-11=-1841/0

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) 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: 7-12=-10, 1-6=-640



Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167653
J1118-5041	2F04GR	Floor Girder	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:07 2019 Page 1
 ID:RQWVY0nO?A3GhiYKTgTw?zbeIT-33TjY_I4W1CdtzrPk5mRedxm2dwW2JsNenKq3z6NR_

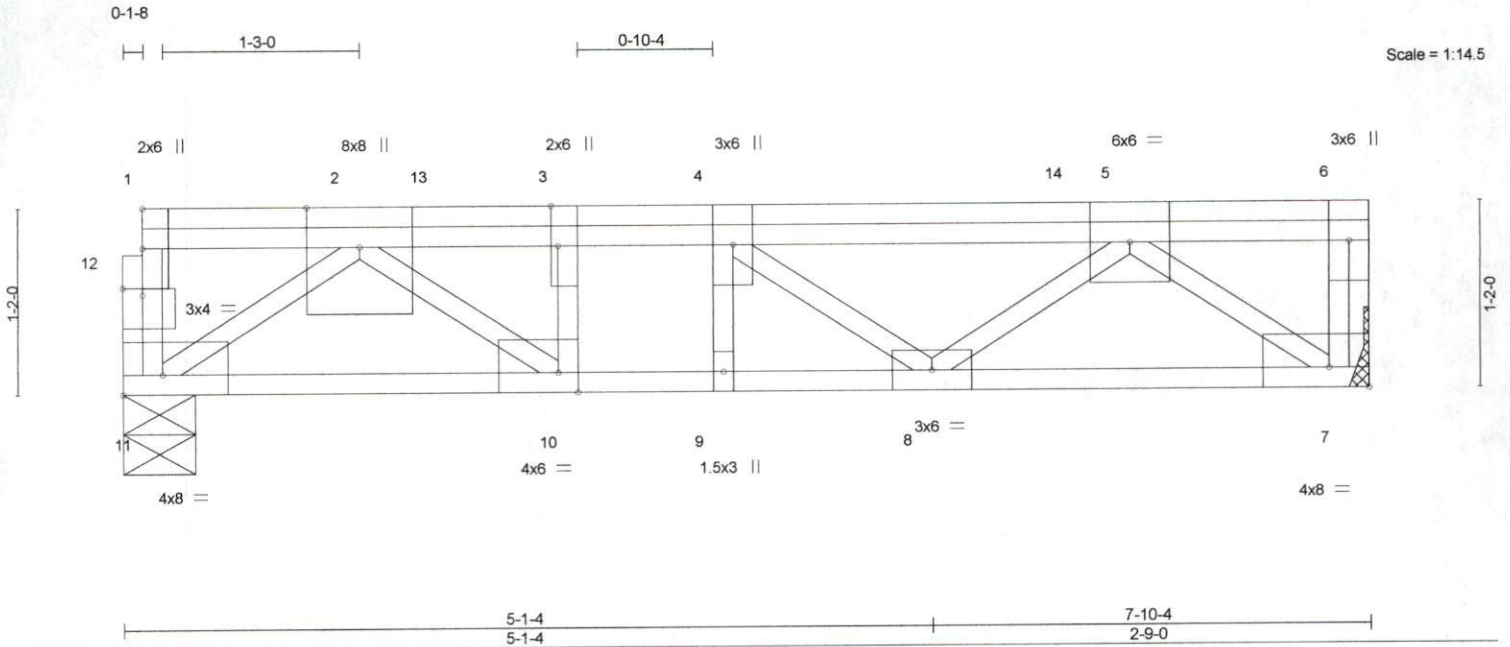


Plate Offsets (X,Y)- [3:0-3-0,Edge], [7:Edge,0-1-8], [10:0-1-8,Edge], [11:Edge,0-1-8], [12:0-1-8,0-0-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.44	Vert(LL)	-0.06	8-9	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.61	Vert(CT)	-0.09	8-9	>999	360		
BCLL 0.0	Rep Stress Incr NO	WB 0.90	Horz(CT)	0.02	7	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						Weight: 53 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 11=1643/0-5-8, 7=1667/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3742/0, 3-4=-3742/0, 4-5=-3127/0
 BOT CHORD 10-11=0/2231, 9-10=0/3742, 8-9=0/3742, 7-8=0/2429
 WEBS 5-7=-2981/0, 2-11=-2735/0, 5-8=0/895, 2-10=0/1899, 4-8=-789/0, 3-10=-986/0

- NOTES-
- Unbalanced floor live loads have been considered for this design.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - Refer to girder(s) for truss to truss connections.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 879 lb down at 2-0-0, and 886 lb down at 4-0-0, and 917 lb down at 6-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 7-11=-10, 1-6=-100
 Concentrated Loads (lb)
 Vert: 4=-837(F) 13=-806(F) 14=-837(F)



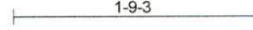
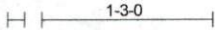
June 14, 2019

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167654
J1118-5041	2F05	Floor	11	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:08 2019 Page 1
 ID:RQWVY0nO?fA3GhiYKTgTw?zbetT-XF16mKmiHLKUU7QcloH0_s93sS_0Fea0blXuLvZ6NQz

0-1-8



Scale = 1:16.6

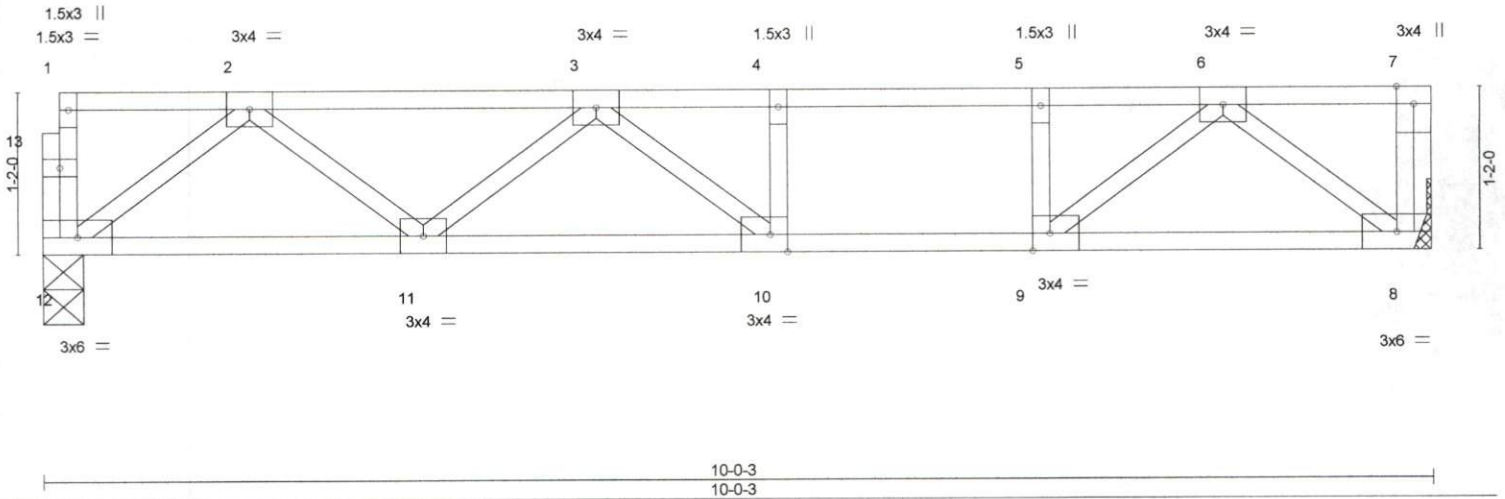


Plate Offsets (X,Y)-- [9:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.61	Vert(LL)	-0.09 10-11	>999	480	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.56	Vert(CT)	-0.12 10-11	>939	360		
BCLL 0.0	Lumber DOL 1.00	WB 0.33	Horz(CT)	0.01 8	n/a	n/a		
BCDL 5.0	Rep Stress Incr NO	Matrix-S					Weight: 51 lb	FT = 20%F, 11%E
	Code IRC2015/TPI2014							

LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 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 10-0-0 oc bracing.

REACTIONS. (lb/size) 12=531/0-3-8, 8=735/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 7-8=-269/0, 2-3=-973/0, 3-4=-1147/0, 4-5=-1147/0, 5-6=-1147/0
 BOT CHORD 11-12=0/645, 10-11=0/1231, 9-10=0/1147, 8-9=0/621
 WEBS 6-8=-779/0, 6-9=0/685, 5-9=-323/0, 2-12=-807/0, 2-11=0/427, 3-11=-335/0

- 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: 8-12=-10, 1-7=-100
 Concentrated Loads (lb)
 Vert: 7=-198



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

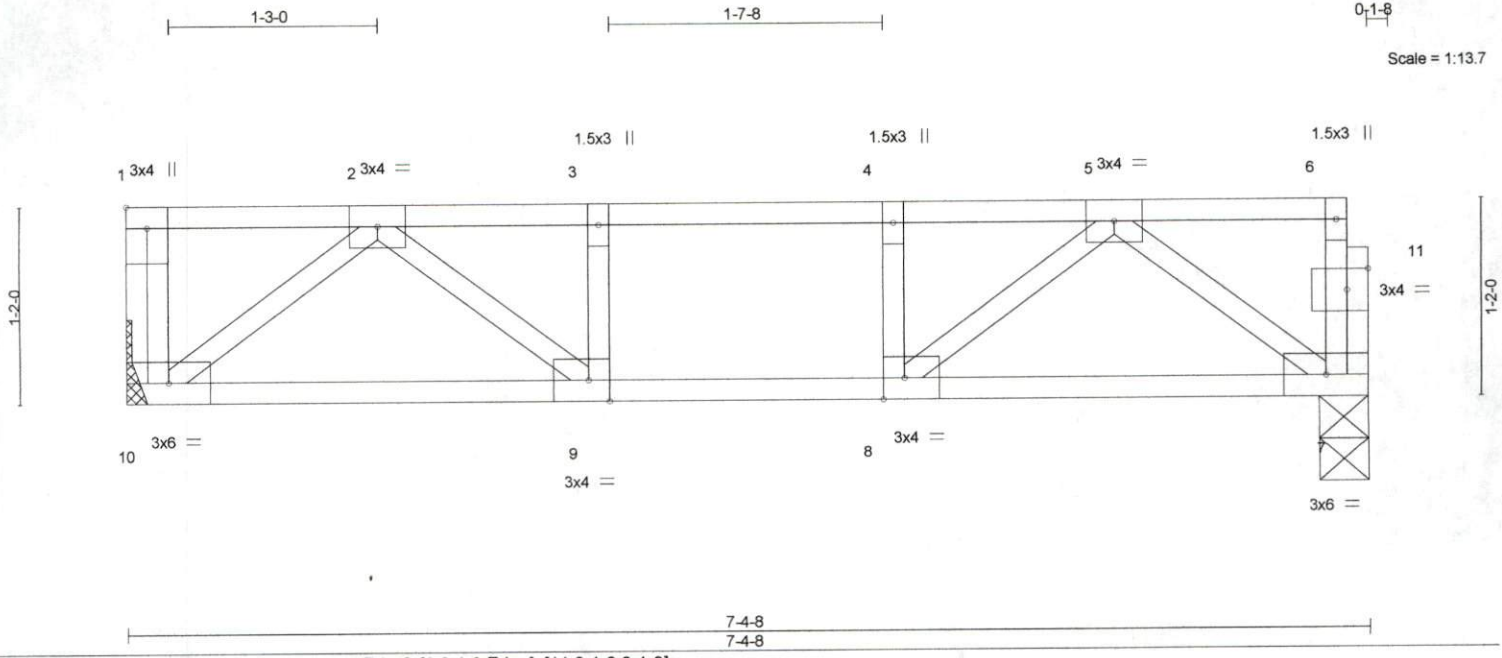
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167655
J1118-5041	2F05A	Floor	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:08 2019 Page 1

ID:RQWvY0nO?fA3GhiYKTgTw?zbetT-XF16mKmiHLKUU7QcloH0_s9AkS41FhE0bIXuLVz6NQz



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.02	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.17	Vert(CT)	-0.03	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%F, 11%E

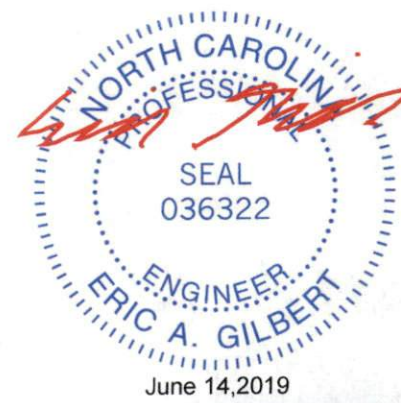
LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-
 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. (lb/size) 10=392/Mechanical, 7=386/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-651/0, 3-4=-651/0, 4-5=-651/0
 BOT CHORD 9-10=0/426, 8-9=0/651, 7-8=0/424
 WEBS 2-10=-534/0, 2-9=0/329, 5-7=-528/0, 5-8=0/329

- 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J1118-5041	Truss 2F05GR	Truss Type FLOOR GIRDER	Qty 1	Ply 1	202 BROADLAKE LANE, SPRING LAKE, NC Job Reference (optional)	E13167656
-------------------	-----------------	----------------------------	----------	----------	---	-----------

Comtech, Inc., Fayetteville, NC 28309

8,130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:09 2019 Page 1
ID:RQWVY0nO?fA3GhiYKTgTw?zbetT-?SbUzgmK2fSL6H?osWpFW3iGbsHK_1e9qyGRtzb6NQy

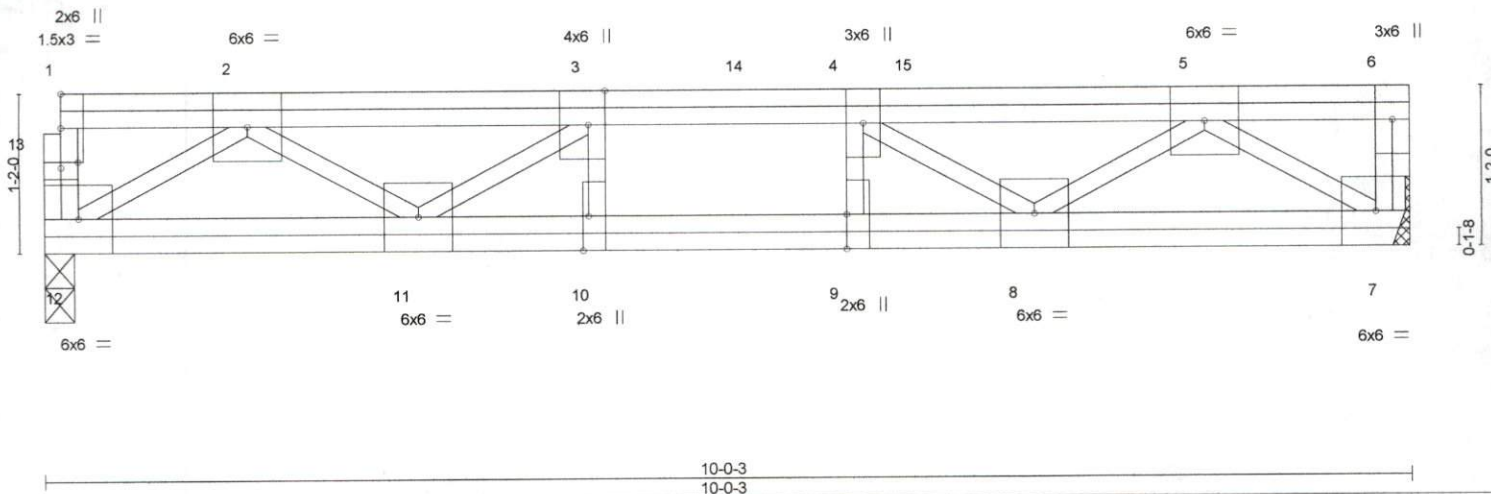
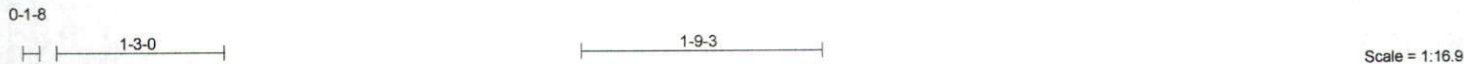


Plate Offsets (X, Y) - [3:0-3-0,Edge], [9:0-3-0,0-0-0], [10:0-3-0,Edge], [13:0-1-8,0-0-8]

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 0.48	Vert(LL)	-0.07	9	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.68	Vert(CT)	-0.10	9	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.59	Horz(CT)	0.02	7	n/a	n/a		
BCDL 5.0	Code IRC2015/TP12014		Matrix-S						Weight: 78 lb	FT = 20%F, 11%E

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

BRACING-
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. (lb/size) 12=1016/0-2-10, 7=1331/Mechanical

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

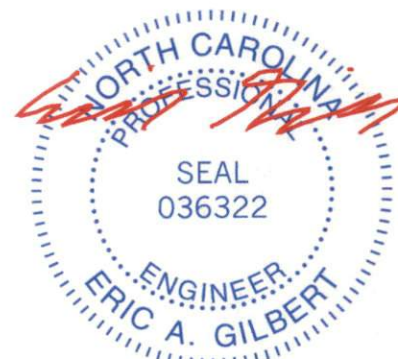
TOP CHORD 2-3=-2409/0, 3-4=-3691/0, 4-5=-2892/0
BOT CHORD 11-12=0/1404, 10-11=0/3691, 9-10=0/3691, 8-9=0/3691, 7-8=0/1923
WEBS 2-12=-1636/0, 2-11=0/1249, 3-11=-1590/0, 3-10=0/341, 5-7=-2311/0, 5-8=0/1201, 4-8=-994/0, 4-9=-346/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
- 5) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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) 351 lb down at 6-5-3, and 372 lb down at 8-5-3 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: 7-12=-10, 1-6=-100
Concentrated Loads (lb)
Vert: 5=-292(F) 14=-695 15=-292(F)
- 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-12=-10, 1-6=-100
Concentrated Loads (lb)
Vert: 5=-292(F) 14=-695 15=-292(F)
- 3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-12=-10, 1-4=-100, 4-6=-20



June 14, 2019

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TP1 Quality Criteria, DSB-88 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167656
J1118-5041	2F05GR	FLOOR GIRDER	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:09 2019 Page 2
 ID:RQWwY0nO?fA3GhiYKTgTw?zbetT-?SbUzgmK2fSL6H?osWpFW3iGbsHK_1e9qyGRtzb6NQy

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 5=-372(F) 14=-695 15=-351(F)

4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 7-12=-10, 1-3=-20, 3-6=-100

Concentrated Loads (lb)

Vert: 5=-292(F) 14=-695 15=-292(F)

5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 7-12=-10, 1-4=-100, 4-6=-20

Concentrated Loads (lb)

Vert: 5=-372(F) 14=-695 15=-351(F)

6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 7-12=-10, 1-3=-20, 3-6=-100

Concentrated Loads (lb)

Vert: 5=-292(F) 14=-695 15=-292(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167657
J1118-5041	2F06	Floor	8	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:09 2019 Page 1

ID:RQWwY0nO?fA3GhiYKTgTw?zbetT-T?SbUzgmK2fSL6H?osWpFW3ilosGj_4a9qyGRtz6Nqy

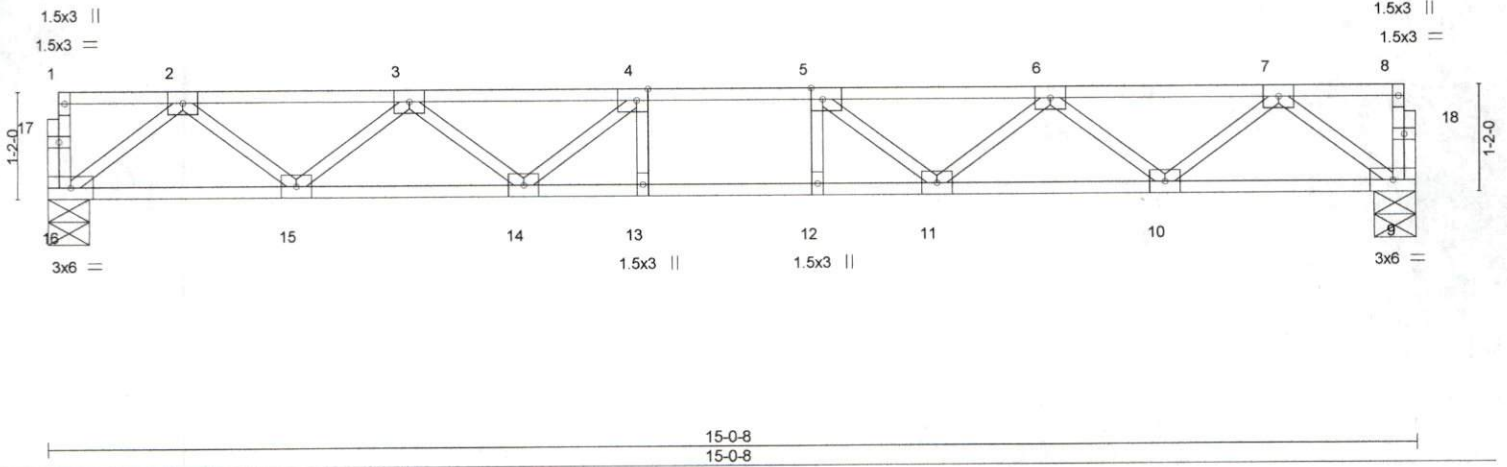


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.34	Vert(LL)	-0.15 12-13	>999	480	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.72	Vert(CT)	-0.20 12-13	>886	360		
BCLL 0.0	Lumber DOL 1.00	WB 0.41	Horz(CT)	0.04 9	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-S					Weight: 75 lb	FT = 20%F, 11%E
	Code IRC2015/TPI2014							

LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 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 10-0-0 oc bracing.

REACTIONS. (lb/size) 16=807/0-5-8, 9=807/0-5-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1656/0, 3-4=-2575/0, 4-5=-2865/0, 5-6=-2575/0, 6-7=-1656/0
 BOT CHORD 15-16=0/1000, 14-15=0/2277, 13-14=0/2865, 12-13=0/2865, 11-12=0/2277, 9-10=0/1000
 WEBS 2-16=-1252/0, 2-15=0/853, 3-15=-809/0, 3-14=0/447, 4-14=-545/0, 7-9=-1252/0, 7-10=0/853, 6-10=-809/0, 6-11=0/447, 5-11=-545/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



June 14, 2019

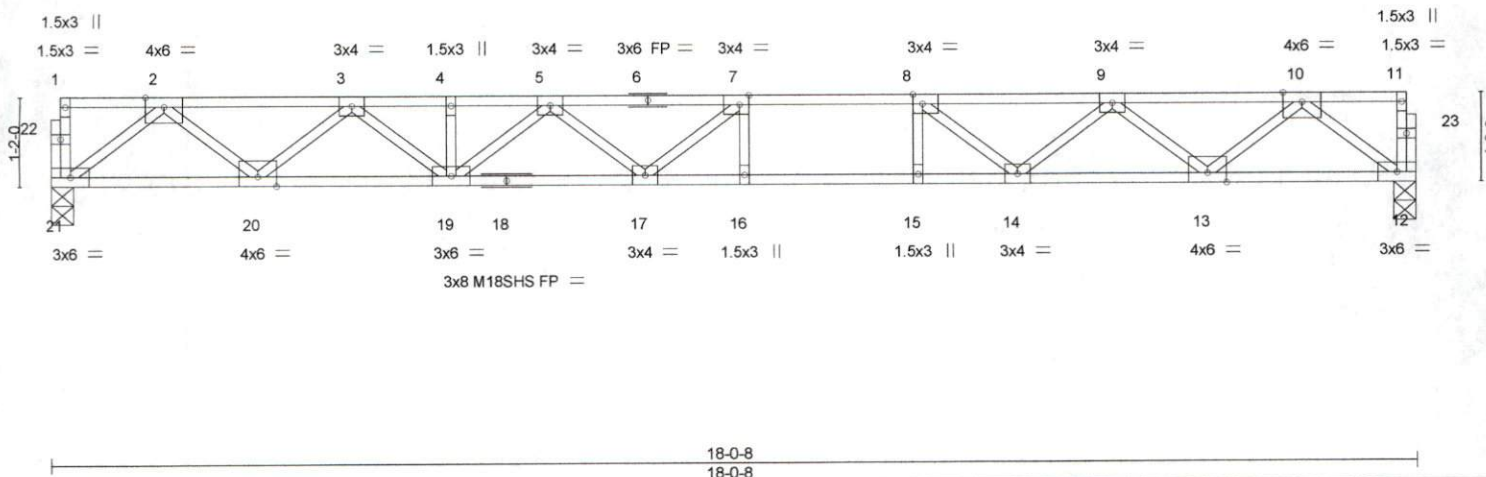
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSIT/PTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J1118-5041	Truss 2F07	Truss Type Floor	Qty 1	Ply 1	202 BROADLAKE LANE, SPRING LAKE, NC Job Reference (optional)	E13167658
-------------------	---------------	---------------------	----------	----------	---	-----------

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:10 2019 Page 1
ID:RQWVY0nO?fA3GhiYKTgTw?zbetT-Ue9sB0nyoyaCkRa_QDKU3HFLJGajjV0J3c0?QNz6NqX



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.34	16-17	>633	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.46	16-17	>460	360	M18SHS	244/190	
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.06	12	n/a	n/a			
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 90 lb		FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP 2400F 2.0E(flat) *Except* 18-21: 2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		

REACTIONS. (lb/size) 12=972/0-3-8, 21=972/0-3-8, 21=972/0-3-8

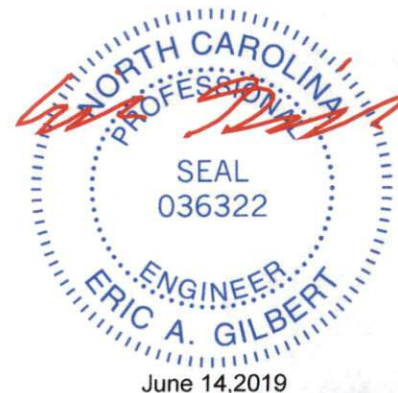
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2066/0, 3-4=-3430/0, 4-5=-3430/0, 5-7=-4057/0, 7-8=-4047/0, 8-9=-3386/0, 9-10=-2068/0

BOT CHORD 20-21=0/1222, 19-20=0/2873, 17-19=0/3922, 16-17=0/4047, 15-16=0/4047, 14-15=0/4047, 13-14=0/2863, 12-13=0/1225

WEBS 10-12=-1534/0, 10-13=0/1098, 9-13=-1035/0, 9-14=0/706, 8-14=-991/0, 8-15=-49/342, 2-21=-1530/0, 2-20=0/1098, 3-20=-1050/0, 3-19=0/711, 5-19=-628/0, 5-17=0/363, 7-17=-404/304, 7-16=-306/84

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Non Standard bearing condition. Review required.
 - 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167659
J1118-5041	2F07A	Floor	5	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MITek Industries, Inc. Fri Jun 14 11:50:11 2019 Page 1
 ID:RQWVY0n0?A3GhiYKTgTw?zbeT-yqjEOMoaZGi3Mb9AzwrjcUnYMgxEsYQSIgiYyqz6NQw

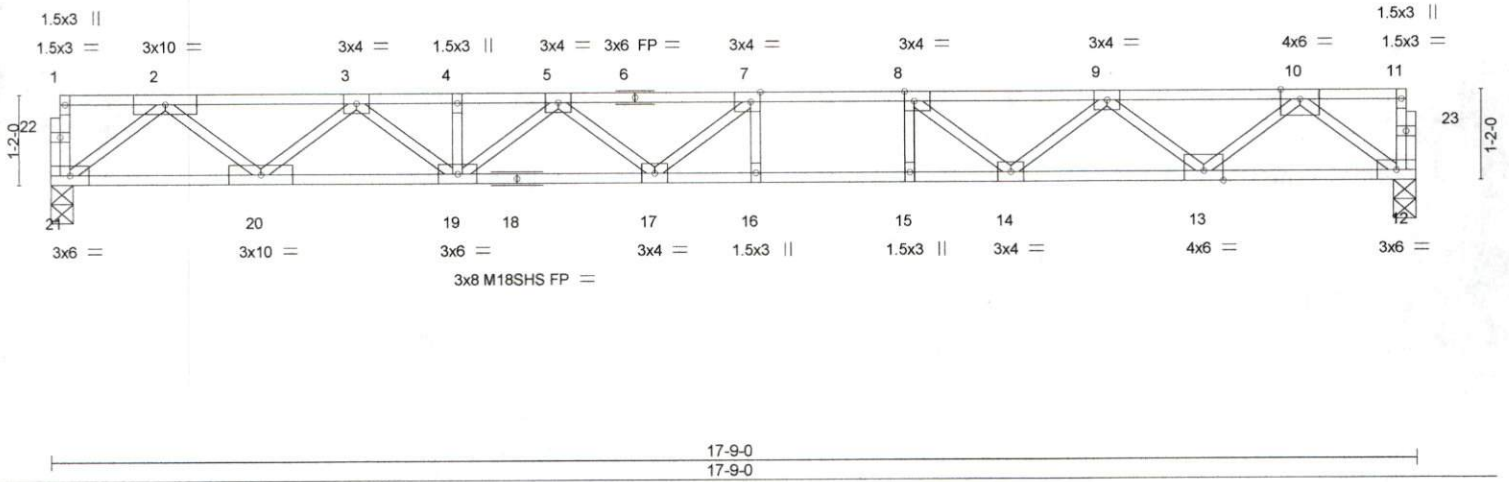


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.66	Vert(LL)	-0.30 16-17	>690	480	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.78	Vert(CT)	-0.42 16-17	>502	360	M18SHS	244/190
BCLL 0.0	Lumber DOL 1.00	WB 0.51	Horz(CT)	0.06 12	n/a	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014							
							Weight: 89 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 5-5-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
18-21: 2x4 SP No.1(flat)	
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 21=956/0-3-8, 12=956/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2025/0, 3-4=-3351/0, 4-5=-3351/0, 5-7=-3937/0, 7-8=-3922/0, 8-9=-3305/0, 9-10=-2029/0
 BOT CHORD 20-21=0/1201, 19-20=0/2813, 17-19=0/3820, 16-17=0/3922, 15-16=0/3922, 14-15=0/3922, 13-14=0/2808, 12-13=0/1202
 WEBS 2-21=-1504/0, 2-20=0/1073, 3-20=-1026/0, 3-19=0/686, 5-19=-599/0, 5-17=-13/337, 7-17=-373/300, 7-16=-294/85, 10-12=-1506/0, 10-13=0/1076, 9-13=-1015/0, 9-14=0/671, 8-14=-922/0, 8-15=-54/326

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) 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	202 BROADLAKE LANE, SPRING LAKE, NC	E13167660
J1118-5041	2F08	Floor	4	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:12 2019 Page 1
 ID:RQWVY0nO?FA3GhiYKTgTw?zbetT-Q0HcchpCkAqvzkkNXeMy8iKpI3NiBUxbWwV5UGz6NqV

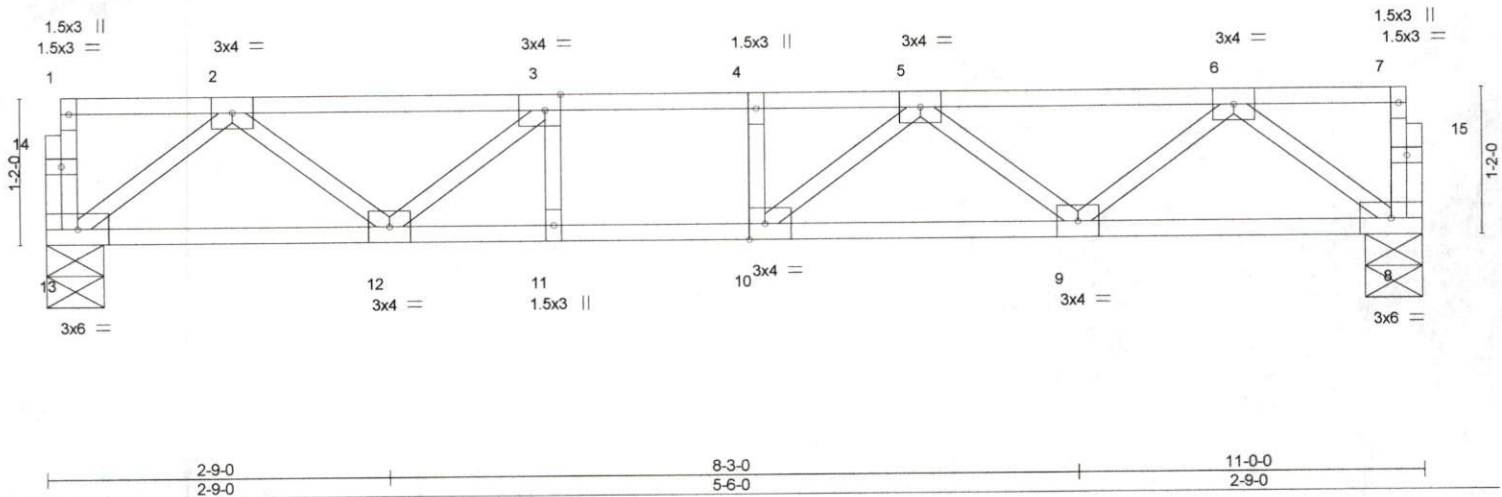
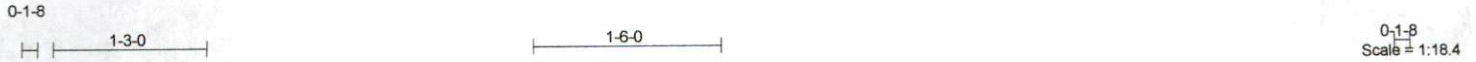


Plate Offsets (X,Y)- [3:0-1-8,Edge], [10:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.30	Vert(LL) -0.07	9-10	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.45	Vert(CT) -0.09	9-10	>999	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.24	Horz(CT) 0.02	8	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 56 lb	FT = 20%F, 11%E

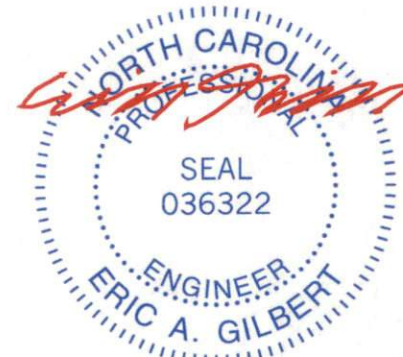
LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-
 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. (lb/size) 13=585/0-5-8, 8=585/0-5-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1094/0, 3-4=-1489/0, 4-5=-1489/0, 5-6=-1098/0
 BOT CHORD 12-13=0/708, 11-12=0/1489, 10-11=0/1489, 9-10=0/1436, 8-9=0/714
 WEBS 6-8=-894/0, 2-13=-885/0, 6-9=0/499, 2-12=0/502, 5-9=-440/0, 3-12=-514/0, 5-10=-88/280

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.



June 14, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

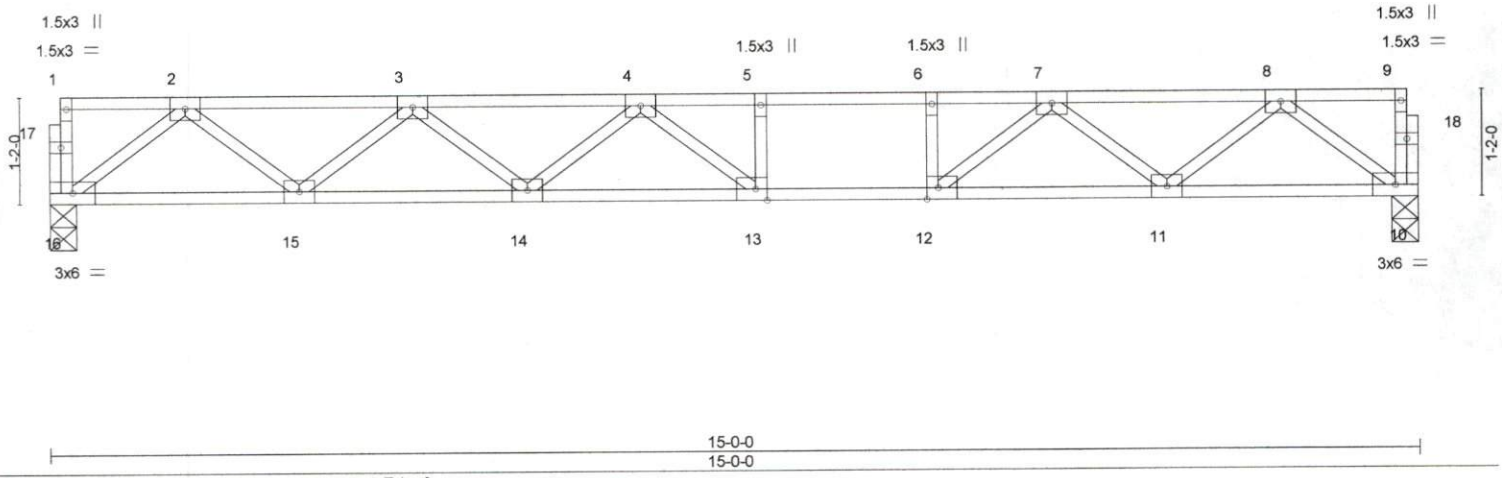
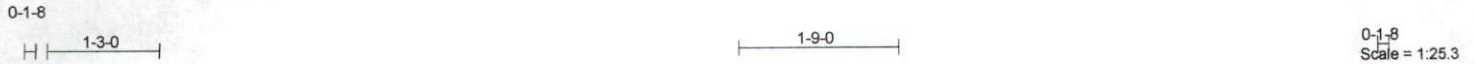
ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167661
J1118-5041	2F09	Floor	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:12 2019 Page 1
 ID:RQWVY0nO?fA3GhiYKTgTw?zbetT-Q0HcchpCKaqvzkkNXeMy8iKjE3HoBRPbVwV5UGz6Nqv



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.19 13-14 >908 480	MT20	244/190	Weight: 75 lb	FT = 20%F, 11%E
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.27 13-14 >657 360				
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04 10 n/a n/a				
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purtins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 16=805/0-3-8, 10=805/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1645/0, 3-4=-2585/0, 4-5=-2752/0, 5-6=-2752/0, 6-7=-2752/0, 7-8=-1627/0
 BOT CHORD 15-16=0/997, 14-15=0/2270, 13-14=0/2831, 12-13=0/2752, 11-12=0/2254, 10-11=0/1002
 WEBS 8-10=-1254/0, 8-11=0/814, 7-11=-816/0, 7-12=0/791, 6-12=-348/0, 2-16=-1248/0, 2-15=0/844, 3-15=-813/0, 3-14=0/410, 4-14=-320/0, 4-13=-298/286

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167662
J1118-5041	2F09A	Floor	5	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:13 2019 Page 1
ID:RQWwY0nO?fA3GhiYKTgTw?zbetT-uDr?p1qr5tymbuJZ5LtbhvtSTaRws8llaEf0iz6NQu

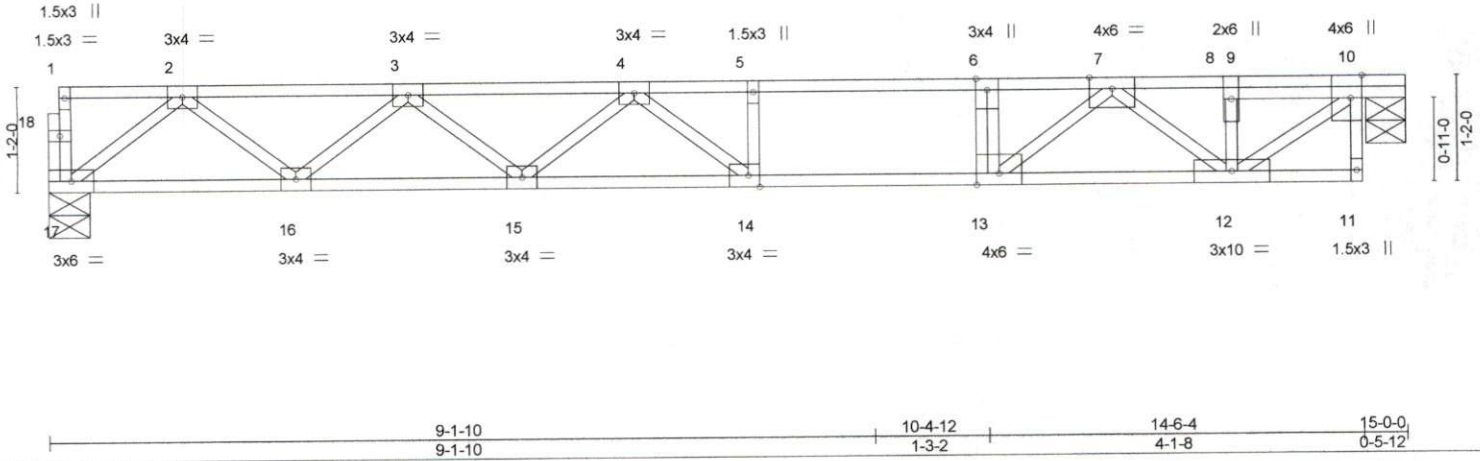


Plate Offsets (X,Y)- [10:0-3-0,Edge], [14:0-1-8,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.75	Vert(LL) -0.27	14-15	>634	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.99	Vert(CT) -0.36	14-15	>471	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.56	Horz(CT) 0.03	10	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 76 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except*
1-10: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 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 2-2-0 oc bracing.

REACTIONS. (lb/size) 17=782/0-5-8, 10=788/0-5-4

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1584/0, 3-4=-2486/0, 4-5=-2485/0, 5-6=-2485/0, 6-7=-2485/0, 7-9=-963/0, 9-10=-963/0
BOT CHORD 16-17=0/966, 15-16=0/2185, 14-15=0/2689, 13-14=0/2485, 12-13=0/1628
WEBS 10-12=0/1182, 2-17=-1209/0, 2-16=0/804, 3-16=-783/0, 3-15=0/391, 4-15=-264/0, 4-14=-406/214, 7-12=-849/0, 7-13=0/1149, 6-13=-523/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - 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.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - CAUTION, Do not erect truss backwards.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	202 BROADLAKE LANE, SPRING LAKE, NC	E13167663
J1118-5041	2F10	Floor	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:14 2019 Page 1
 ID:RQWwY0nO?FA3GhiYKTgTw?zbetT-MPON0NqTsB4dD2If3OQD7P7Vt2efNFu_E_CZ9z6NQI

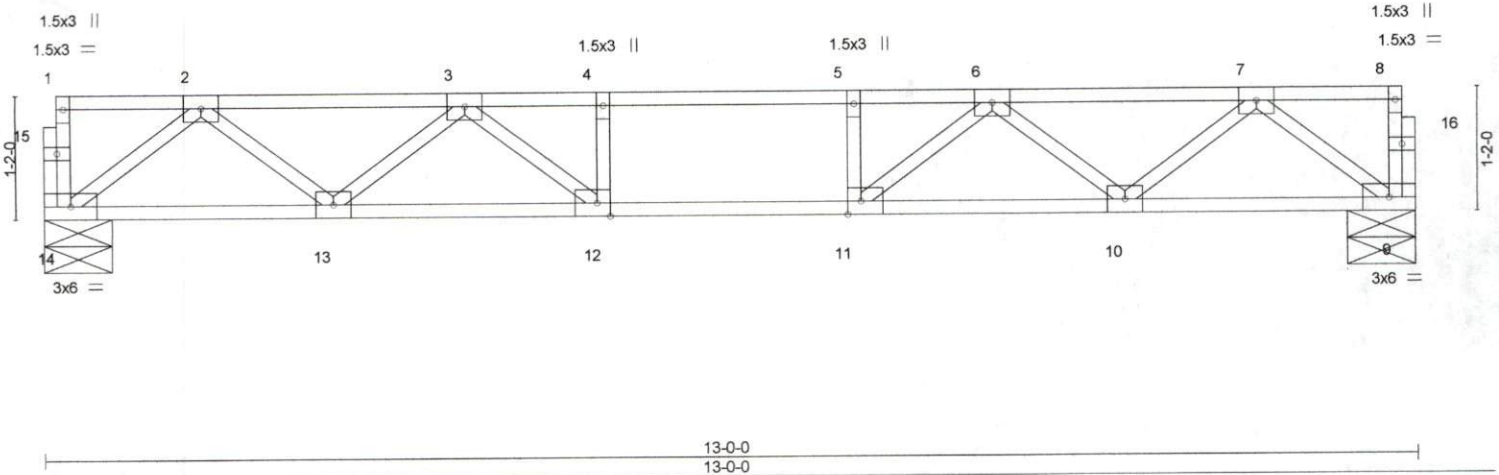
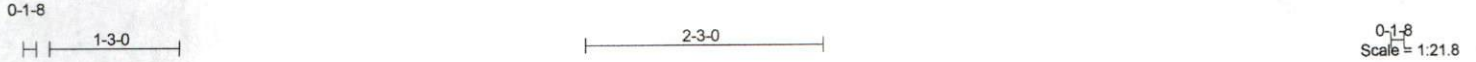


Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.41	Vert(LL)	-0.11	12-13	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.48	Vert(CT)	-0.14	12-13	>999		
BCLL 0.0	Lumber DOL 1.00	WB 0.31	Horz(CT)	0.03	9	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-S					Weight: 64 lb	FT = 20%F, 11%E
	Code IRC2015/TPI2014							

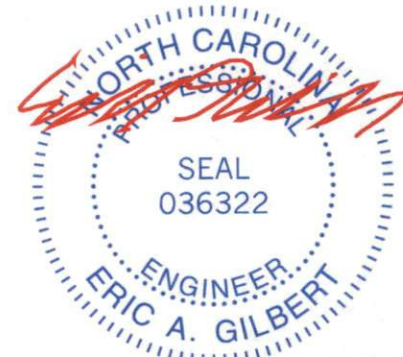
LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 14=695/0-7-12, 9=695/0-7-12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1367/0, 3-4=-2098/0, 4-5=-2098/0, 5-6=-2098/0, 6-7=-1367/0
 BOT CHORD 13-14=0/860, 12-13=0/1840, 11-12=0/2098, 10-11=0/1840, 9-10=0/860
 WEBS 2-14=-1076/0, 2-13=0/660, 3-13=-616/0, 3-12=0/540, 4-12=-258/0, 7-9=-1076/0, 7-10=0/660, 6-10=-616/0, 6-11=0/540, 5-11=-258/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



June 14, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job J1118-5041	Truss 2F11	Truss Type Floor	Qty 1	Ply 1	202 BROADLAKE LANE, SPRING LAKE, NC Job Reference (optional)	E13167664
-------------------	---------------	---------------------	----------	----------	---	-----------

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Jun 14 11:50:14 2019 Page 1
ID:RQWVY0nO?FA3GhiYKTgTw?zbetT-MPON0NqTsB4dD2If3OQD7PA8t33fO8u_E_CZ9z6NqT

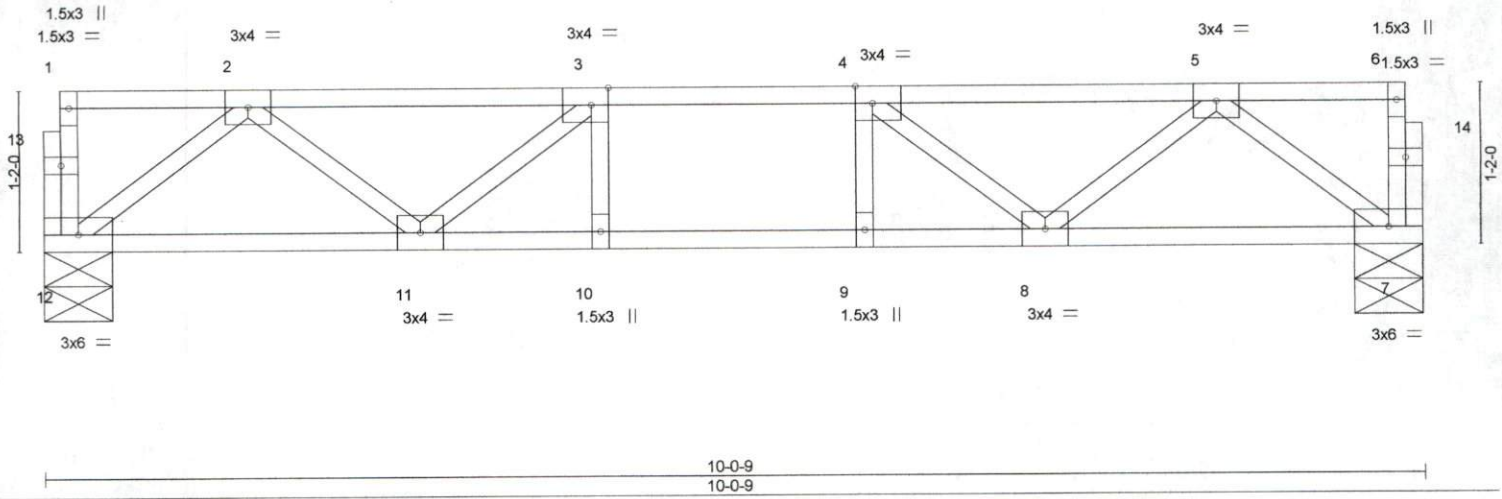


Plate Offsets (X,Y)- [3:0-1-8,Edge], [4:0-1-8,Edge]

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 0.24	Vert(LL)	-0.05 10-11	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.39	Vert(CT)	-0.06 10	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.01 7	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S					Weight: 51 lb	FT = 20%F, 11%E

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

REACTIONS. (lb/size) 12=533/0-6-0, 7=533/0-6-0

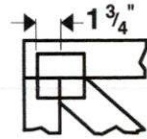
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-959/0, 3-4=-1255/0, 4-5=-959/0
 BOT CHORD 11-12=0/647, 10-11=0/1255, 9-10=0/1255, 8-9=0/1255, 7-8=0/647
 WEBS 2-12=-809/0, 2-11=0/406, 3-11=-413/0, 5-7=-809/0, 5-8=0/406, 4-8=-413/0

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

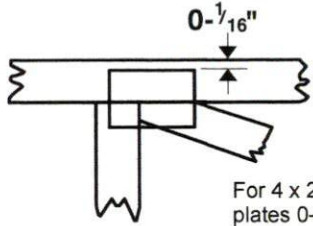


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

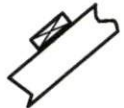
* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 x 4

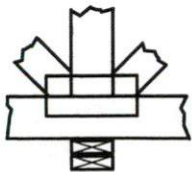
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



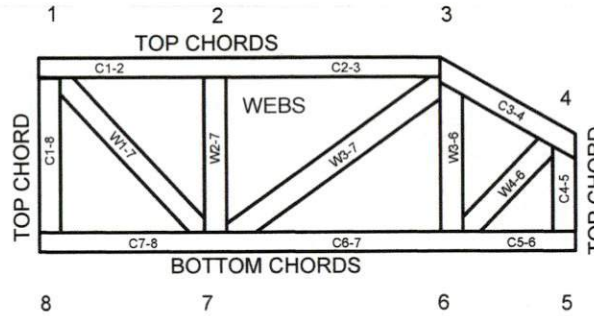
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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

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

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

© 2012 MiTek® All Rights Reserved



MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. 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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. 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 environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.



Wise Engineering
3915 Old Fairground Rd.
Angier, NC 27501
(919)894-2203

July 22, 2019

Raphael Locklear

Subject: Lewis Residence – 202 Broad Lake Ln., Spring Lake, NC

Mr. Locklear,

I have reviewed the framing for the Lewis Residence being constructed at the address shown above. Specifically, I reviewed the inspection concerns reviewed with Austin on-site.

- The foundation wall at the back wall of the garage has two areas where the wall was not constructed in the right location, therefore, did not provide adequate support to the floor trusses as required. The wall has been corrected by adding additional masonry support. The footing for the wall has adequate projection as required, therefore it is adequate as repaired.
- The deck band (single or double 2x10 min.) for the back deck may be attached using bolts, bolted directly to the double 2x4 end vertical section of the floor trusses. Use a minimum of ½ inch diameter bolts.
- The deck joist will span approximately 13'-6" outward from the house. This will require 2x10 treated joist spaced at 12-inch on center. The outer band running between the vertical support post should be either a (2)1.75"x9.25" LVL or a (3)2x12 beam.
- The connection between the upper deck post to the deck should be made by using a RPBZ post base.

The analysis and members outlined above is in accordance with the requirements of the 2018 NC State Residential Building Code. If you need additional information or have other questions, please let us know.

Sincerely,

Randy K. Wise, PE

