

RE: J1220-5676
Ben Stout/Lot 34 Forest Ridge/Harnet

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Project Name: J1220-5676
Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.3
Wind Code: N/A Wind Speed: N/A mph
Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 10 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E14273352	F01	1/7/2021
2	E14273353	F02	1/7/2021
3	E14273354	F02A	1/7/2021
4	E14273355	F03	1/7/2021
5	E14273356	F03A	1/7/2021
6	E14273357	F04	1/7/2021
7	E14273358	F05	1/7/2021
8	E14273359	FW01	1/7/2021
9	E14273360	FW02	1/7/2021
10	E14273361	FW03	1/7/2021

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

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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



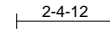
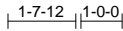
January 07, 2021

Job J1220-5676	Truss F01	Truss Type Floor	Qty 5	Ply 1	Ben Stout/Lot 34 Forest Ridge/Harnet E14273352
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Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:57:53 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-jaJX5a7GgPB6wM?ej?_SpwPU?Auk?0u_GV_oeszSs4y

0-1-8



Scale = 1:55.9

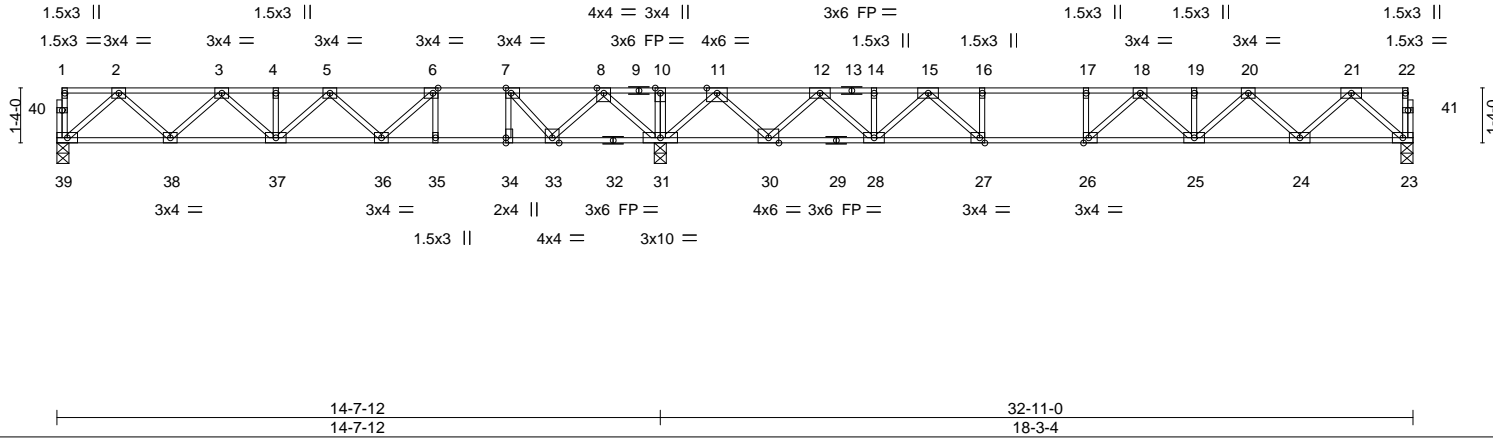


Plate Offsets (X,Y)--	[6:0-1-8,Edge], [7:0-1-8,Edge], [26:0-1-8,Edge], [27:0-1-8,Edge], [34:0-1-8,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.85	Vert(LL)	-0.26 25-26	>828	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.93	Vert(CT)	-0.36 25-26	>613	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.05 23	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 172 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(flat) *Except*
 32-39: 2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS.

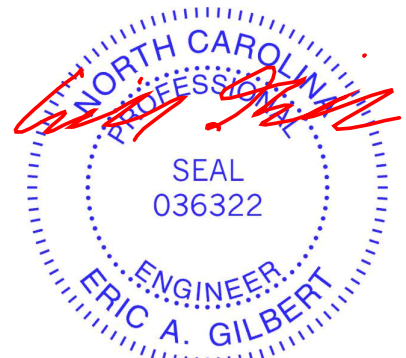
(size) 39=0-3-8, 31=0-3-8, 23=0-3-8
 Max Grav 39=729(LC 3), 31=2075(LC 1), 23=885(LC 4)

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

TOP CHORD 2-3=-1258/0, 3-4=-1912/0, 4-5=-1912/0, 5-6=-1948/210, 6-7=-1549/534, 7-8=-785/924, 8-10=0/1815, 10-11=0/1815, 11-12=-451/147, 12-14=-1906/0, 14-15=-1906/0, 15-16=-2899/0, 16-17=-2899/0, 17-18=-2899/0, 18-19=-2608/0, 19-20=-2608/0, 20-21=-1589/0
 BOT CHORD 38-39=0/780, 37-38=0/1702, 36-37=-43/2104, 35-36=-534/1549, 34-35=-534/1549, 33-34=-534/1549, 31-33=-1251/121, 30-31=-777/0, 28-30=0/1274, 27-28=0/2408, 26-27=0/2899, 25-26=0/2863, 24-25=0/2203, 23-24=0/954
 WEBS 2-39=-1036/0, 2-38=0/666, 3-38=-617/15, 3-37=-90/285, 5-37=-261/87, 5-36=-399/0, 6-36=0/836, 6-35=-549/0, 8-31=-1240/0, 8-33=0/1072, 7-33=-1379/0, 7-34=0/642, 21-23=-1268/0, 21-24=0/883, 20-24=-855/0, 20-25=0/550, 18-25=-347/0, 18-26=-224/328, 11-31=-1585/0, 11-30=0/1207, 12-30=-1170/0, 12-28=0/884, 15-28=-708/0, 15-27=0/875, 16-27=-436/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) 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.



April 8, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job J1220-5676	Truss F02	Truss Type Floor	Qty 5	Ply 1	Ben Stout/Lot 34 Forest Ridge/Harnet E14273353
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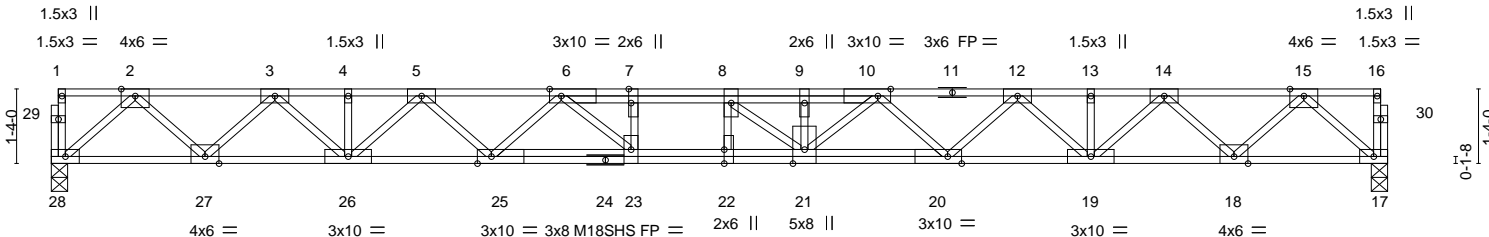
Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:57:54 2020 Page 1
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0-1-8



0-1-8
Scale = 1:41.2



	7-10-8 7-10-8	11-11-8 4-1-0	13-5-0 1-5-8	23-11-0 10-6-0
Plate Offsets (X,Y)--	[6:0-2-8,Edge], [7:0-3-0,Edge], [10:0-2-12,Edge], [20:0-3-0,Edge], [22:0-3-0,0-0-0], [25:0-3-0,Edge]			

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.36	Vert(LL)	-0.37	22	>777	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.43	Vert(CT)	-0.50	22	>565	360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.08	17	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-S							
									Weight: 145 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)

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.

(size) 28=0-3-8, 17=0-3-8
Max Grav 28=1036(LC 1), 17=1036(LC 1)

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

TOP CHORD 2-3=-1984/0, 3-4=-3483/0, 4-5=-3483/0, 5-6=-4883/0, 6-7=-5585/0, 7-8=-5585/0, 8-9=-5543/0, 9-10=-5543/0, 10-12=-4834/0, 12-13=-3493/0, 13-14=-3493/0, 14-15=-1984/0
BOT CHORD 27-28=0/1136, 26-27=0/2811, 25-26=0/4178, 23-25=0/5416, 22-23=0/5585, 21-22=0/5585, 20-21=0/5349, 19-20=0/4137, 18-19=0/2809, 17-18=0/1137
WEBS 2-28=-1511/0, 2-27=0/1180, 3-27=-1150/0, 3-26=0/914, 5-26=-943/0, 5-25=0/902, 6-25=-707/0, 6-23=-177/572, 7-23=-261/61, 15-17=-1511/0, 15-18=0/1178, 14-18=-1148/0, 14-19=0/930, 12-19=-874/0, 12-20=0/893, 10-20=-682/0, 10-21=0/356, 8-21=-487/336

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.
- 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.



April 8, 2020

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job J1220-5676	Truss F02A	Truss Type GABLE	Qty 1	Ply 1	Ben Stout/Lot 34 Forest Ridge/Harnet E14273354
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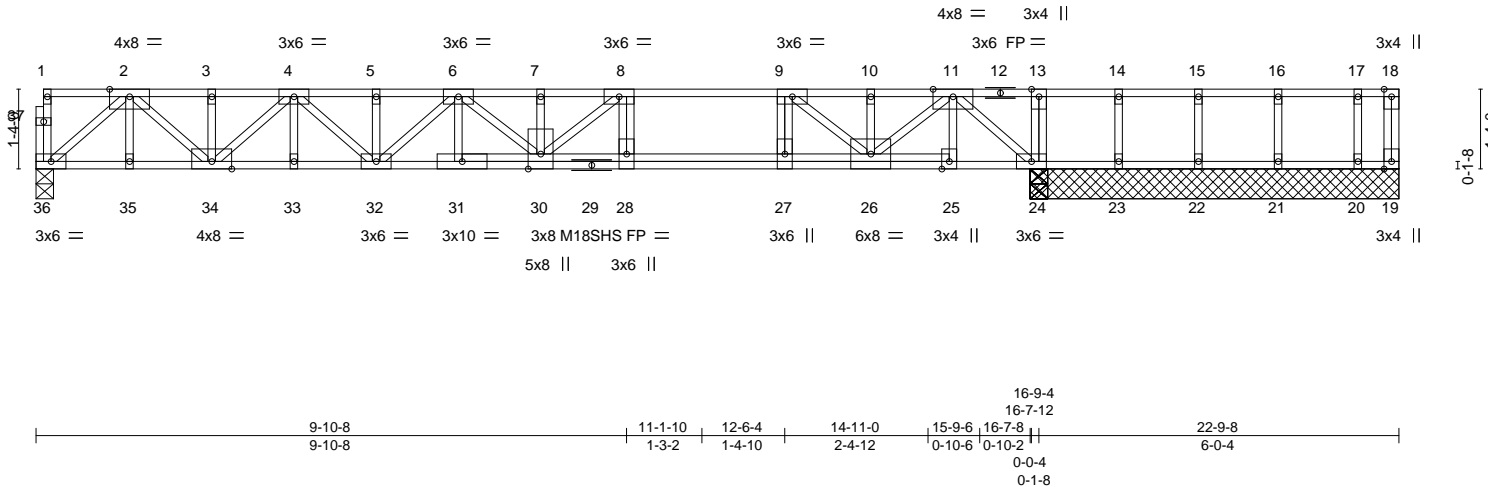
Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:57:56 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-89?gjc99zKZhnqkDO8X9RY14XOXCM5QyTDSFBzSs4v

0-1-8



Scale = 1:38.5



LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.58	Vert(LL)	-0.24 28-30	>816	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.80	Vert(CT)	-0.34 28-30	>594	360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr	NO	WB 0.61	Horz(CT)	0.04 19	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 138 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat) *Except*
1-12: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
29-36: 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 6-2-0 except (jt=length) 36=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 19, 23, 22, 21, 20 except 36=1137(LC 1), 24=1322(LC 1), 24=1322(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2216/0, 3-4=-2216/0, 4-5=-3498/0, 5-6=-3498/0, 6-7=-4165/0, 7-8=-4165/0,
8-9=-3579/0, 9-10=-2156/0, 10-11=-2156/0
BOT CHORD 35-36=0/1255, 34-35=0/1255, 33-34=0/2960, 32-33=0/2960, 31-32=0/3809, 30-31=0/3816,
28-30=0/3579, 27-28=0/3579, 26-27=0/3579, 25-26=0/1173, 24-25=0/1173
WEBS 2-36=-1637/0, 2-34=0/1279, 4-34=-990/0, 4-32=0/716, 6-32=-414/0, 6-30=0/463,
8-30=0/749, 8-28=-514/0, 9-27=0/806, 9-26=-1820/0, 11-26=0/1279, 11-24=-1532/0

NOTES-

- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Gable studs spaced at 1-4-0 oc.
- 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.
- 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

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 19-36=-58(B=-50), 1-18=-80



April 8, 2020

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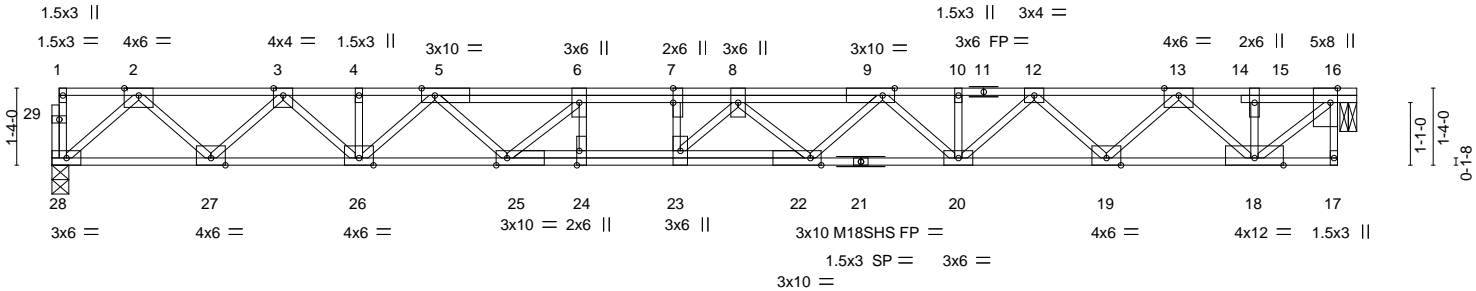
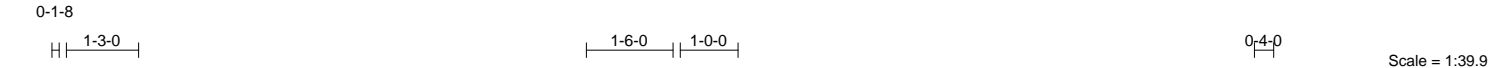


818 Soundside Road
Edenton, NC 27932

Job J1220-5676	Truss F03	Truss Type Floor	Qty 3	Ply 1	Ben Stout/Lot 34 Forest Ridge/Harnet E14273355
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Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:57:57 2020 Page 1
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	22-3-0	22-7-0
	22-3-0	0-4-0

Plate Offsets (X,Y)-- [5:0-2-12,Edge], [7:0-3-0,0-0-0], [9:0-2-8,Edge], [16:0-3-0,Edge], [22:0-2-4,Edge], [24:0-3-0,Edge], [25:0-2-4,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 0.25	Vert(LL) -0.36	22-23	>740	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00		BC 0.83	Vert(CT) -0.49	22-23	>538	360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr YES		WB 0.81	Horz(CT) 0.01	16	n/a	n/a		
BCDL 5.0	Code IRC2015/TP12014		Matrix-S						
								Weight: 138 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)

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.

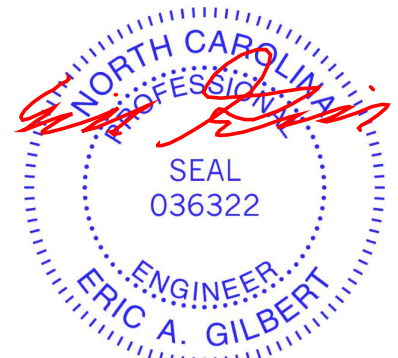
(size) 16=0-3-8, 28=0-3-8
 Max Grav 16=1213(LC 1), 28=1207(LC 1)

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

TOP CHORD 2-3=-2289/0, 3-4=-3988/0, 4-5=-3994/0, 5-6=-5639/0, 6-7=-6036/0, 7-8=-6036/0, 8-9=-5830/0, 9-10=-4574/0, 10-12=-4568/0, 12-13=-3220/0, 13-15=-1312/0, 15-16=-1312/0
 BOT CHORD 27-28=0/1321, 26-27=0/3228, 25-26=0/5058, 24-25=0/6036, 23-24=0/6036, 22-23=0/6068, 20-22=0/5457, 19-20=0/3989, 18-19=0/2395
 WEBS 16-18=0/1708, 2-28=-1757/0, 2-27=0/1346, 3-27=-1306/0, 3-26=0/1033, 5-26=-1351/0, 5-25=0/821, 6-25=-774/0, 13-18=-1471/0, 13-19=0/1148, 12-19=-1070/0, 12-20=0/786, 9-20=-1125/0, 9-22=0/493, 8-22=-423/0, 8-23=-408/446

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) The Fabrication Tolerance at joint 21 = 11%
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 7) CAUTION, Do not erect truss backwards.



April 8, 2020

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818 Soundside Road
 Edenton, NC 27932

Job J1220-5676	Truss F03A	Truss Type Floor	Qty 1	Ply 1	Ben Stout/Lot 34 Forest Ridge/Harnet E14273356
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Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:57:58 2020 Page 1
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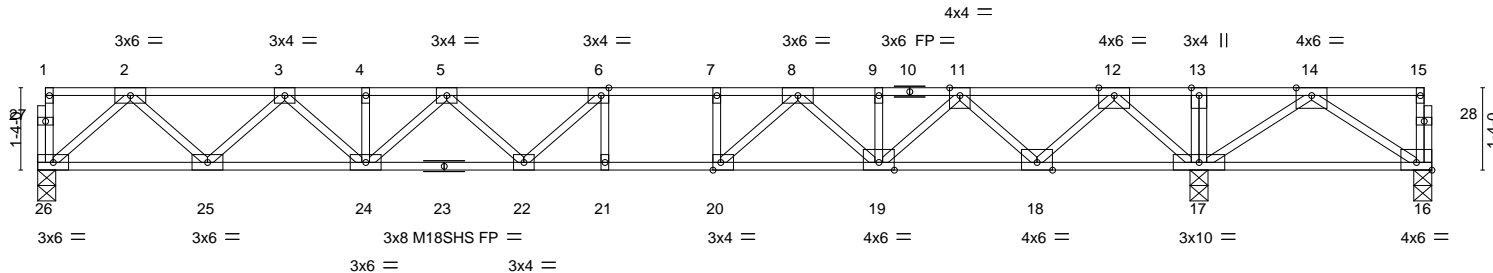


Plate Offsets (X,Y)--	[6:0-1-8,Edge], [16:Edge,0-1-8], [20:0-1-8,Edge]
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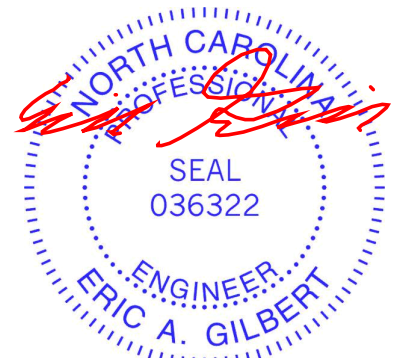
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.70	Vert(LL)	-0.23	21-22	>964	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.71	Vert(CT)	-0.32	21-22	>705	M18SHS	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.04	17	n/a		
BCDL 5.0	Code IRC2015/TP12014		Matrix-S						

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) *Except* 23-26: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-18,16-17.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 16=0-3-8, 26=0-3-8, 17=0-3-8
Max Uplift 16=729(LC 3)
Max Grav 26=870(LC 3), 17=2168(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1562/0, 3-4=-2520/0, 4-5=-2520/0, 5-6=-2845/0, 6-7=-2683/0, 7-8=-2683/0,
8-9=-1480/0, 9-11=-1480/0, 12-13=0/2320, 13-14=0/2322
BOT CHORD 25-26=0/939, 24-25=0/2152, 22-24=0/2846, 21-22=0/2683, 20-21=0/2683, 19-20=0/2089,
18-19=0/775, 17-18=-1062/0, 16-17=-1139/0
WEBS 2-26=-1248/0, 12-17=-1684/0, 2-25=0/867, 12-18=0/1294, 3-25=-821/0, 11-18=-1246/0,
3-24=0/499, 11-19=0/959, 5-24=-443/0, 8-19=-828/0, 8-20=0/905, 6-22=-156/385,
6-21=-307/0, 7-20=-359/0, 14-17=-1573/0, 14-16=0/1367

- 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 1.5x3 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 729 lb uplift at joint 16.
 - 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.



April 8, 2020

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

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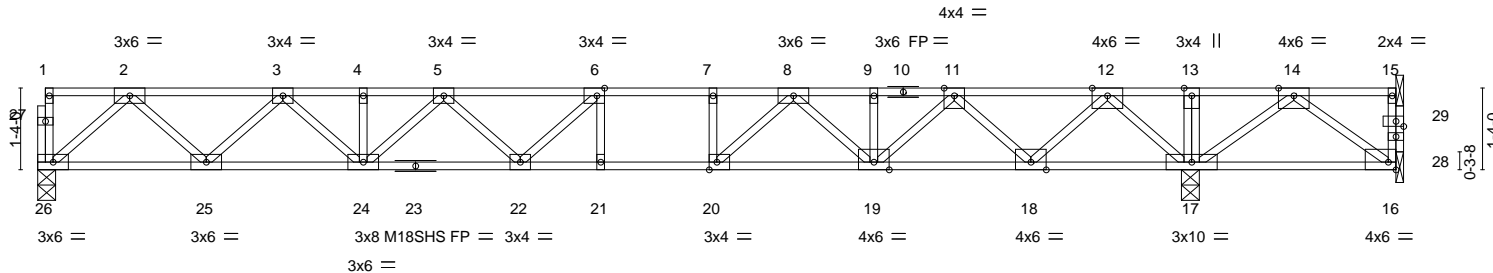


818 Soundside Road
Edenton, NC 27932

Job J1220-5676	Truss F04	Truss Type Floor	Qty 6	Ply 1	Ben Stout/Lot 34 Forest Ridge/Harnet E14273357
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Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:57:59 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-YkgoMdC1GFyGeHS03G5s3BfYbb_YPipsfRR6sWzSs4s



	18-10-0	18-10-0	18-11-8	22-3-8
Plate Offsets (X,Y)--	[6:0-1-8,Edge], [16:Edge,0-1-8], [20:0-1-8,Edge], [29:0-1-8,0-1-0]		0-1-8	3-4-0

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 0.71	Vert(LL)	-0.23	21-22	>960	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.71	Vert(CT)	-0.32	21-22	>702	M18SHS	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.04	17	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 119 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
 23-26: 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, Except: 6-0-0 oc bracing: 17-18,16-17.

REACTIONS.

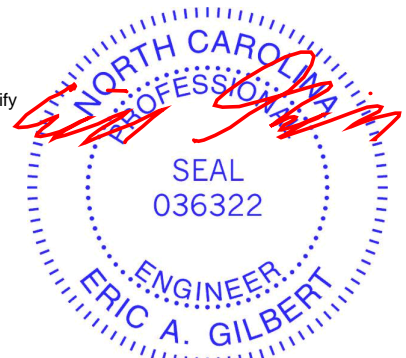
(size) 26=0-3-8, 17=0-3-8, 28=0-1-8, 29=0-1-8
 Max Uplift 28=843(LC 3)
 Max Grav 26=870(LC 3), 17=2245(LC 1), 29=63(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 16-28=-843/0, 2-3=-1562/0, 3-4=-2519/0, 4-5=-2519/0, 5-6=-2845/0, 6-7=-2680/0,
 7-8=-2680/0, 8-9=-1469/0, 9-11=-1469/0, 12-13=0/2338, 13-14=0/2339
 BOT CHORD 25-26=0/939, 24-25=0/2152, 22-24=0/2846, 21-22=0/2680, 20-21=0/2680, 19-20=0/2080,
 18-19=0/761, 17-18=-1077/0, 16-17=-1132/0
 WEBS 2-26=-1248/0, 2-25=0/867, 3-25=-821/0, 3-24=0/499, 5-24=-444/0, 6-22=-154/386,
 6-21=-308/0, 12-17=-1686/0, 12-18=0/1298, 11-18=-1249/0, 11-19=0/962, 8-19=-832/0,
 8-20=0/910, 14-16=0/1417, 7-20=-362/0, 14-17=-1620/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Bearing at joint(s) 28, 29 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 28, 29.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 843 lb uplift at joint 28.
- 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.



April 8, 2020

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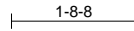
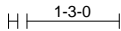
818 Soundside Road
 Edenton, NC 27932

Job J1220-5676	Truss F05	Truss Type Floor	Qty 5	Ply 1	Ben Stout/Lot 34 Forest Ridge/Harnet E14273358
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Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:00 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-0wEBZzCf0Z47GR1_dzc5bOCmX?Lx8AX0t5BgOyzSs4r

0-1-8



0-1-8
Scale = 1:31.2

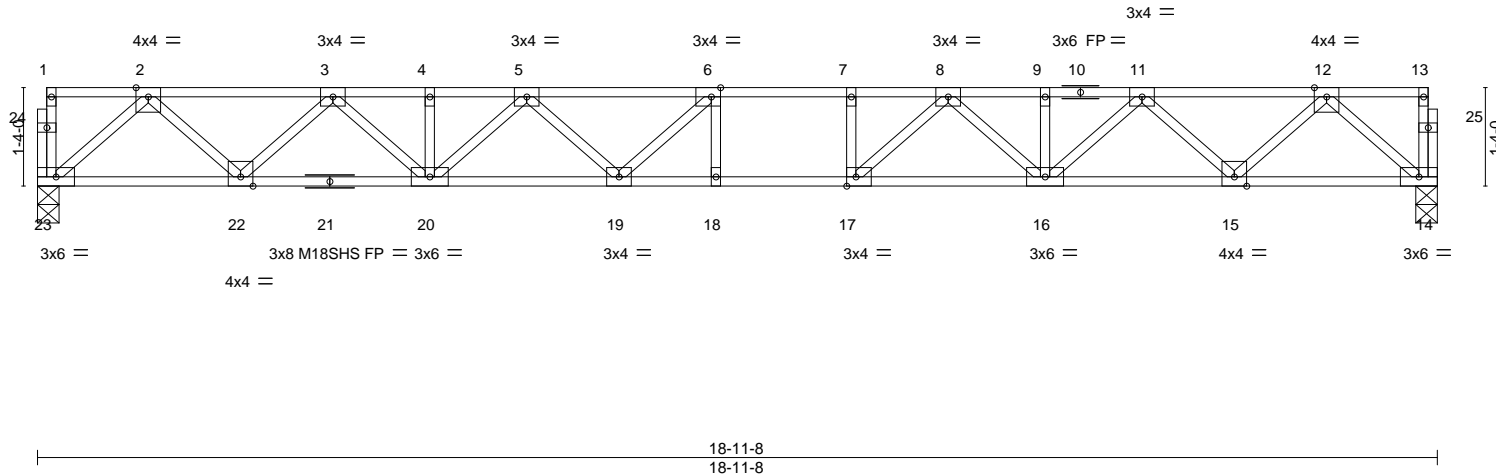


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [17:0-1-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.57	Vert(LL)	-0.27	18-19	>838	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.64	Vert(CT)	-0.37	18-19	>612	360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.52	Horz(CT)	0.06	14	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-S							
									Weight: 100 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
 21-23: 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.

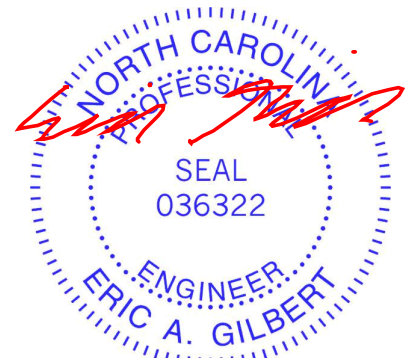
(size) 14=0-3-8, 23=0-3-8
 Max Grav 14=1023(LC 1), 23=1023(LC 1)

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

TOP CHORD 2-3=-1892/0, 3-4=-3178/0, 4-5=-3178/0, 5-6=-3824/0, 6-7=-3939/0, 7-8=-3939/0,
 8-9=-3182/0, 9-11=-3182/0, 11-12=-1893/0
 BOT CHORD 22-23=0/1112, 20-22=0/2641, 19-20=0/3644, 18-19=0/3939, 17-18=0/3939, 16-17=0/3613,
 15-16=0/2637, 14-15=0/1113
 WEBS 2-23=-1478/0, 2-22=0/1085, 3-22=-1042/0, 3-20=0/730, 5-20=-634/0, 5-19=0/402,
 6-19=-470/171, 12-14=-1480/0, 12-15=0/1084, 11-15=-1035/0, 11-16=0/741,
 8-16=-586/0, 8-17=0/699, 7-17=-284/0

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



April 8, 2020

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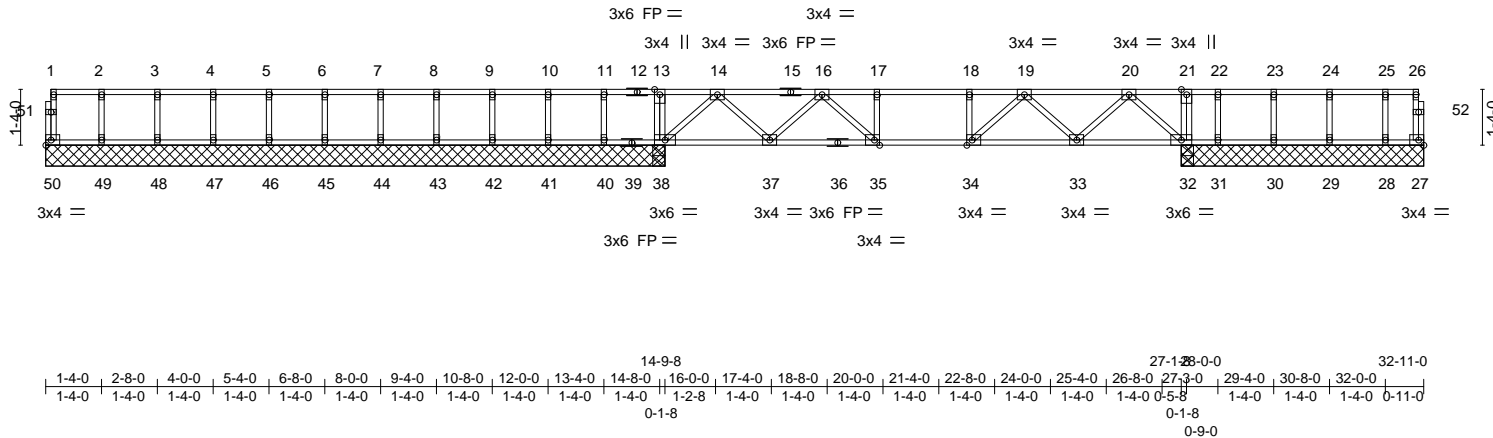


818 Soundside Road
 Edenton, NC 27932

Job J1220-5676	Truss FW01	Truss Type GABLE	Qty 1	Ply 1	Ben Stout/Lot 34 Forest Ridge/Harnet E14273359
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Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:02 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-zJMx_fEwYAKrVIBMkOeZhpHBVo5Jc8klLPgmTrzSs4p



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 0.22	Vert(LL)	-0.06	34-35	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.32	Vert(CT)	-0.08	34-35	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.02	27	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						

Weight: 155 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 14-9-8 except (jt=length) 27=5-9-8, 32=5-9-8, 32=5-9-8, 31=5-9-8, 30=5-9-8, 29=5-9-8, 28=5-9-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 40, 31
Max Grav All reactions 250 lb or less at joint(s) 27, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 31, 30, 29, 28 except 32=802(LC 4), 32=802(LC 1), 38=799(LC 1), 38=799(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 14-16=-1116/0, 16-17=-1727/0, 17-18=-1727/0, 18-19=-1727/0, 19-20=-1112/0
BOT CHORD 37-38=0/696, 35-37=0/1520, 34-35=0/1727, 33-34=0/1518, 32-33=0/691
WEBS 20-32=-920/0, 20-33=0/585, 19-33=0/564/0, 19-34=0/285, 14-38=-926/0, 14-37=0/586, 16-37=-562/0, 16-35=0/282

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40, 31.
 - 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.



April 8, 2020

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818 Soundside Road
Edenton, NC 27932

Job J1220-5676	Truss FW02	Truss Type Floor Supported Gable	Qty 1	Ply 1	Ben Stout/Lot 34 Forest Ridge/Harnet Job Reference (optional)	E14273360
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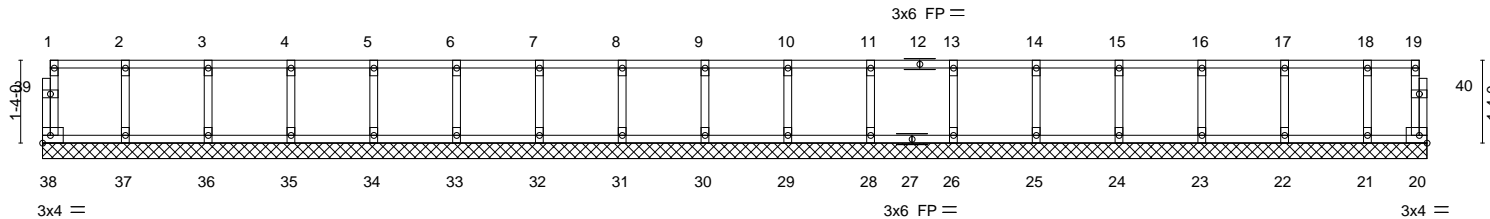
Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:03 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-RVwJB?FYJUSi7vmZI69oD1qPrCWSLfrSZ3PK?HzSs4o

0-1-8

0-1-8

Scale = 1:37.1



22-3-8
22-3-8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0 Plate Grip DOL 1.00	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	20	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R					Weight: 98 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 22-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21

FORCES.

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

NOTES-

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.



April 8, 2020

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818 Soundside Road
Edenton, NC 27932

Job J1220-5676	Truss FW03	Truss Type GABLE	Qty 1	Ply 1	Ben Stout/Lot 34 Forest Ridge/Harnet Job Reference (optional)	E14273361
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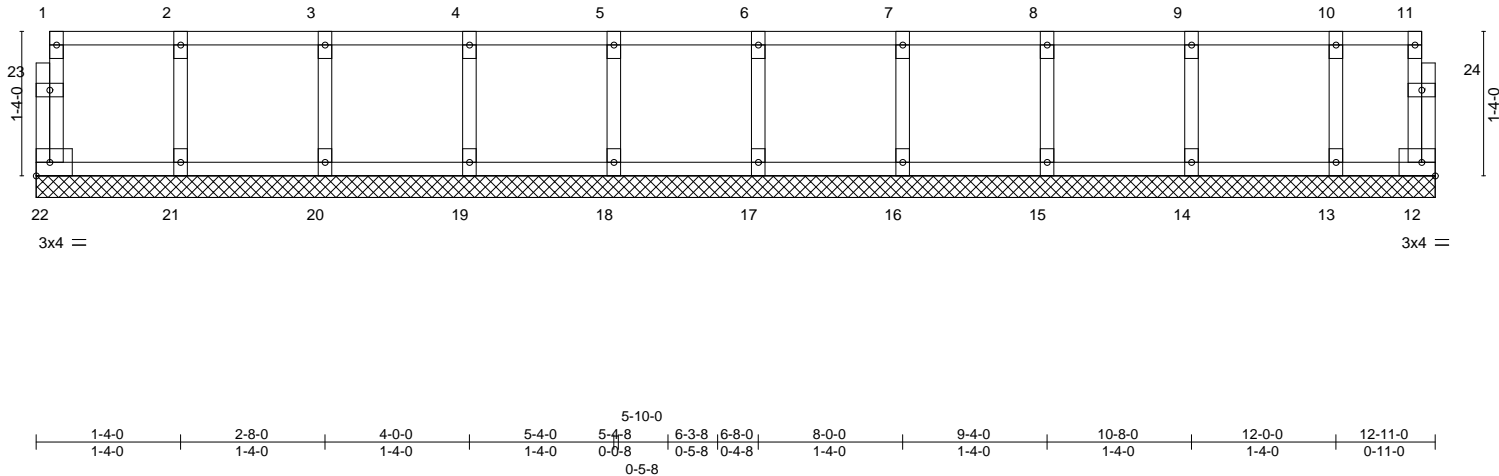
Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Mar 23 2020 MiTek Industries, Inc. Wed Apr 8 06:58:03 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-RVwJB?FYJUSi7vmZl69oD1qPrCWQLfrSZ3PK?HzSs4o

0 1/8

0 1/8

Scale = 1:21.3



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 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	12	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R					Weight: 58 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.

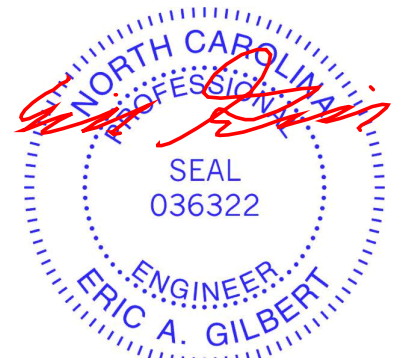
All bearings 12-11-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

FORCES.

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

NOTES-

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.



April 8, 2020

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

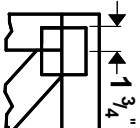
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



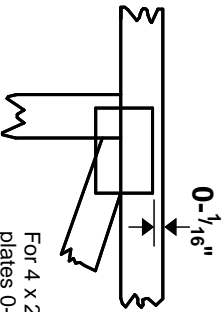
818 Soundside Road
 Edenton, NC 27932

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- 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



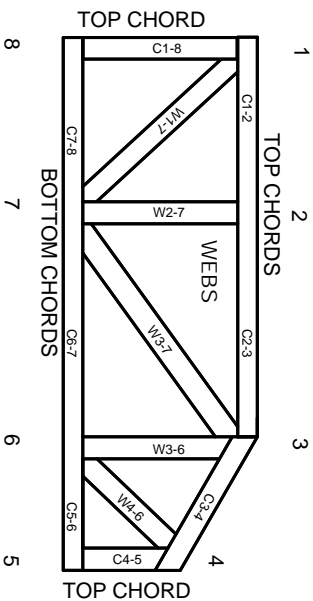
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, 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/TFP 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020



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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.