

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0523-2746
Lot 8 Williams Farms

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: I58612624 thru I58612636

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



May 30, 2023

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	Truss	Truss Type	Qty	Ply	Lot 8 Williams Farms	158612624
J0523-2746	F01	Floor	3	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon May 29 09:11:52 2023 Page 1
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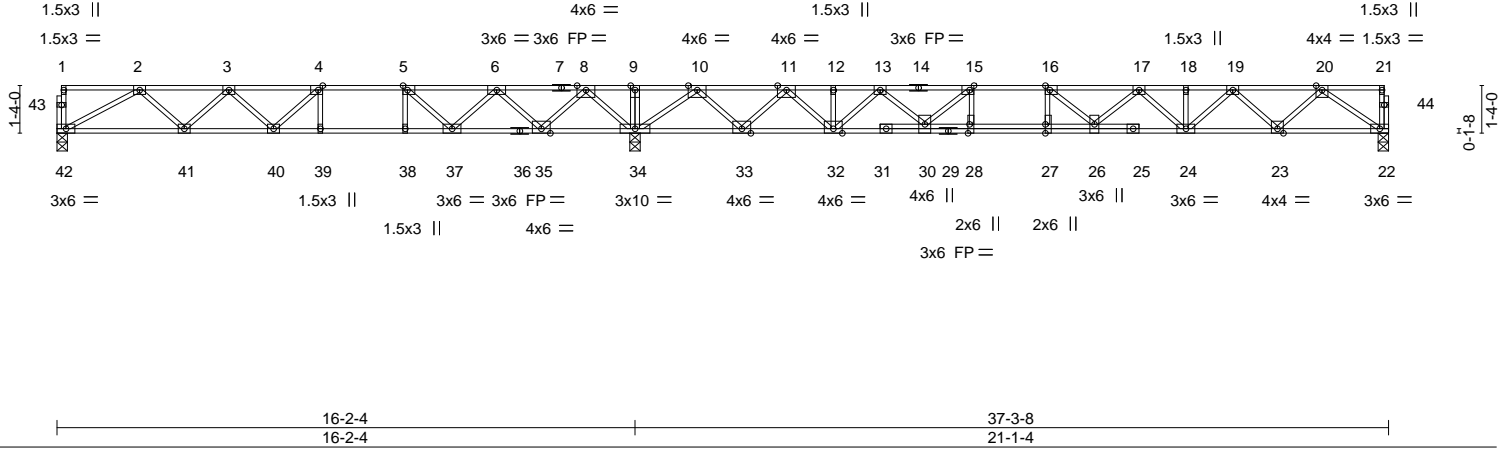


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [15:0-1-8,Edge], [16:0-1-8,Edge], [27:0-3-0,0-0-0], [28:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.82	Vert(LL) -0.30	27	>833	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.88	Vert(CT) -0.40	26-27	>622	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.06	22	n/a	n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S					Weight: 200 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(flat) *Except*
 36-42: 2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

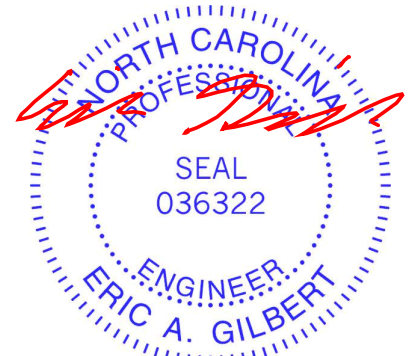
(size) 42=0-3-8, 34=0-3-8, 22=0-3-8
 Max Grav 42=769(LC 3), 34=2435(LC 1), 22=1011(LC 4)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1650/0, 3-4=-2171/132, 4-5=-2144/445, 5-6=-1547/906, 6-8=-377/1534,
 8-9=0/3013, 9-10=0/3014, 10-11=-390/574, 11-12=-2143/0, 12-13=-2143/0,
 13-15=-3350/0, 15-16=-3995/0, 16-17=-3909/0, 17-18=-3244/0, 18-19=-3244/0,
 19-20=-2085/0
 BOT CHORD 41-42=0/1211, 40-41=0/2064, 39-40=-445/2144, 38-39=-445/2144, 37-38=-445/2144,
 35-37=-1219/1077, 34-35=-1976/0, 33-34=-1250/0, 32-33=-268/1364, 30-32=0/2861,
 28-30=0/3995, 27-28=0/3995, 26-27=0/3995, 24-26=0/3709, 23-24=0/2769, 22-23=0/1357
 WEBS 8-34=-1577/0, 8-35=0/1182, 6-35=-1122/0, 6-37=0/846, 5-37=-1188/0, 5-38=0/468,
 2-42=-1378/0, 2-41=-14/610, 3-41=-576/47, 4-40=0/544, 4-39=-432/0, 10-34=-2152/0,
 10-33=0/1455, 11-33=-1415/0, 11-32=0/1120, 13-32=-1018/0, 13-30=0/724,
 15-30=-1113/0, 15-28=-12/544, 20-22=-1648/0, 20-23=0/1013, 19-23=-952/0,
 19-24=0/646, 17-24=-632/0, 17-26=0/331, 16-26=-374/370, 16-27=-431/116

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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



May 30, 2023

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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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

Job	Truss	Truss Type	Qty	Ply	Lot 8 Williams Farms	158612625
J0523-2746	F02	Floor	3	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon May 29 09:11:53 2023 Page 1
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Scale: 3/16"=1'

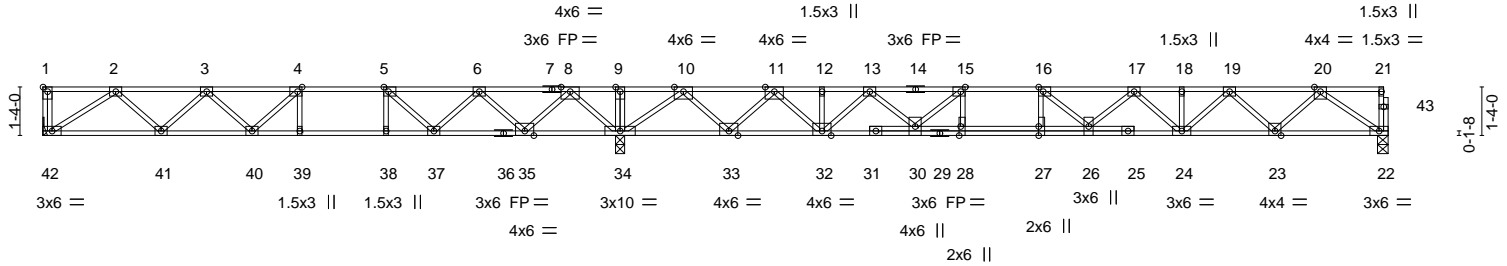


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge], [15:0-1-8,Edge], [16:0-1-8,Edge], [27:0-3-0,0-0-0], [28:0-3-0,Edge]
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LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.80	Vert(LL) -0.30 27 >830 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.85	Vert(CT) -0.41 26-27 >619 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.06 22 n/a n/a		
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 199 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 5-11-12 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat) *Except* 36-42: 2x4 SP 2400F 2.0E(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 34=0-3-0, 42=Mechanical, 22=0-3-8
Max Grav 34=2420(LC 1), 42=758(LC 3), 22=1012(LC 4)

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

TOP CHORD 2-3=-1494/0, 3-4=-2054/140, 4-5=-2061/452, 5-6=-1498/909, 6-8=-363/1535, 8-9=0/3007, 9-10=0/3008, 10-11=-395/555, 11-12=-2150/0, 12-13=-2150/0, 13-15=-3359/0, 15-16=-4006/0, 16-17=-3919/0, 17-18=-3251/0, 18-19=-3251/0, 19-20=-2088/0

BOT CHORD 41-42=0/1039, 40-41=-3/1927, 39-40=-452/2061, 38-39=-452/2061, 37-38=-452/2061, 35-37=-1220/1048, 34-35=-1975/0, 33-34=-1243/0, 32-33=-250/1370, 30-32=0/2868, 28-30=0/4006, 27-28=0/4006, 26-27=0/4006, 24-26=0/3717, 23-24=0/2774, 22-23=0/1359

WEBS 8-34=-1554/0, 8-35=0/1163, 6-35=-1104/0, 6-37=0/822, 5-37=-1151/0, 5-38=0/451, 2-42=-1235/0, 2-41=-14/634, 3-41=-602/42, 4-40=-9/510, 4-39=-415/0, 10-34=-2153/0, 10-33=0/1456, 11-33=-1416/0, 11-32=0/1121, 13-32=-1019/0, 13-30=0/724, 15-30=-1115/0, 15-28=-13/544, 20-22=-1651/0, 20-23=0/1015, 19-23=-954/0, 19-24=0/648, 17-24=-634/0, 17-26=0/335, 16-26=-380/366, 16-27=-430/118

- 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.



May 30, 2023

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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

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Williams Farms	158612627
J0523-2746	F04	Floor	3	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon May 29 09:11:59 2023 Page 1
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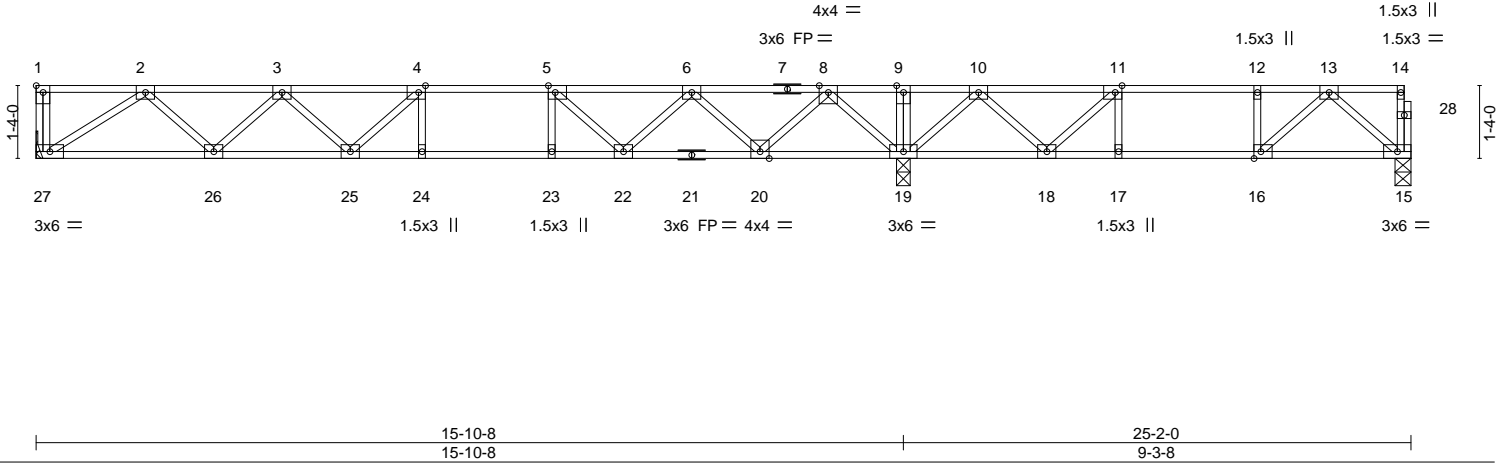


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,Edge], [16:0-1-8,Edge]

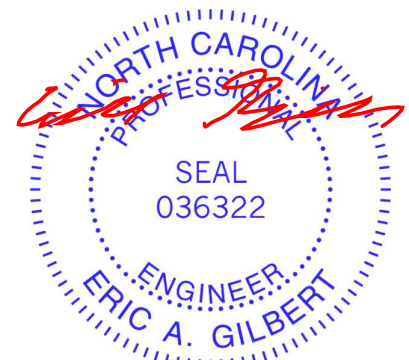
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.97	Vert(LL) -0.19 24-25 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.46	Vert(CT) -0.25 24-25 >757 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 15 n/a n/a		
	Code IRC2018/TPI2014			Weight: 128 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 2-2-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 27=Mechanical, 19=0-3-0, 15=0-3-8
Max Grav 27=814(LC 10), 19=1582(LC 1), 15=423(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1641/0, 3-4=-2316/0, 4-5=-2440/0, 5-6=-1996/0, 6-8=-975/50, 8-9=0/1093,
9-10=0/1093, 10-11=-348/292, 11-12=-660/57, 12-13=-660/57
BOT CHORD 26-27=0/1128, 25-26=0/2125, 24-25=0/2440, 23-24=0/2440, 22-23=0/2440, 20-22=0/1610,
19-20=-269/312, 18-19=-481/32, 17-18=-57/660, 16-17=-57/660, 15-16=0/406
WEBS 8-19=-1341/0, 8-20=0/968, 6-20=-924/0, 6-22=0/594, 5-22=-759/0, 2-27=-1342/0,
2-26=0/713, 3-26=-674/0, 3-25=0/291, 4-25=-300/116, 10-19=-852/0, 10-18=0/559,
11-18=-615/0, 13-15=-536/0, 13-16=-102/346

- 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.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.



May 30, 2023

Job	Truss	Truss Type	Qty	Ply	Lot 8 Williams Farms	158612628
J0523-2746	F05	FLOOR	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon May 29 09:12:00 2023 Page 1
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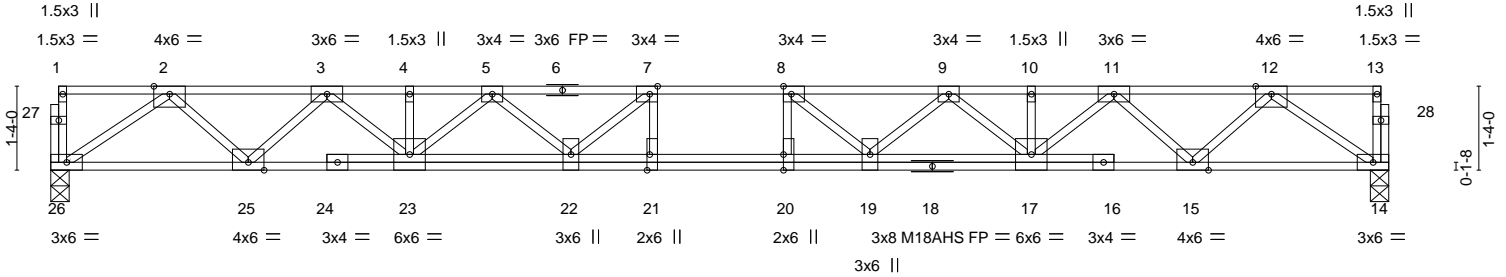
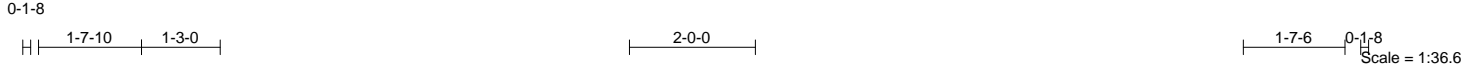


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [20:0-3-0,0-0-0], [21:0-3-0,Edge]

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)	-0.36	20-21	>696	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.73	Vert(CT)	-0.50	20-21	>506	M18AHS	186/179
BCLL 0.0	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.07	14	n/a		
BCDL 5.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 127 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 4-11-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 26=0-3-8, 14=0-3-8
Max Grav 26=1149(LC 1), 14=1149(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2423/0, 3-4=-4035/0, 4-5=-4035/0, 5-7=-4962/0, 7-8=-5236/0, 8-9=-4958/0, 9-10=-4026/0, 10-11=-4026/0, 11-12=-2408/0
BOT CHORD 25-26=0/1561, 23-25=0/3312, 22-23=0/4641, 21-22=0/5236, 20-21=0/5236, 19-20=0/5236, 17-19=0/4634, 15-17=0/3300, 14-15=0/1544
WEBS 2-26=-1889/0, 2-25=0/1199, 3-25=-1236/0, 3-23=0/961, 5-23=-804/0, 5-22=0/527, 7-22=-724/131, 7-21=-300/316, 12-14=-1876/0, 12-15=0/1202, 11-15=-1240/0, 11-17=0/964, 9-17=-807/0, 9-19=0/529, 8-19=-729/127, 8-20=-298/319

- 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.



May 30, 2023

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818 Soundside Road
Edenton, NC 27932

Job J0523-2746	Truss F06	Truss Type Floor	Qty 2	Ply 1	Lot 8 Williams Farms 158612629
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Comtech, Inc., Fayetteville, NC 28309

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue May 30 08:18:29 2023 Page 1
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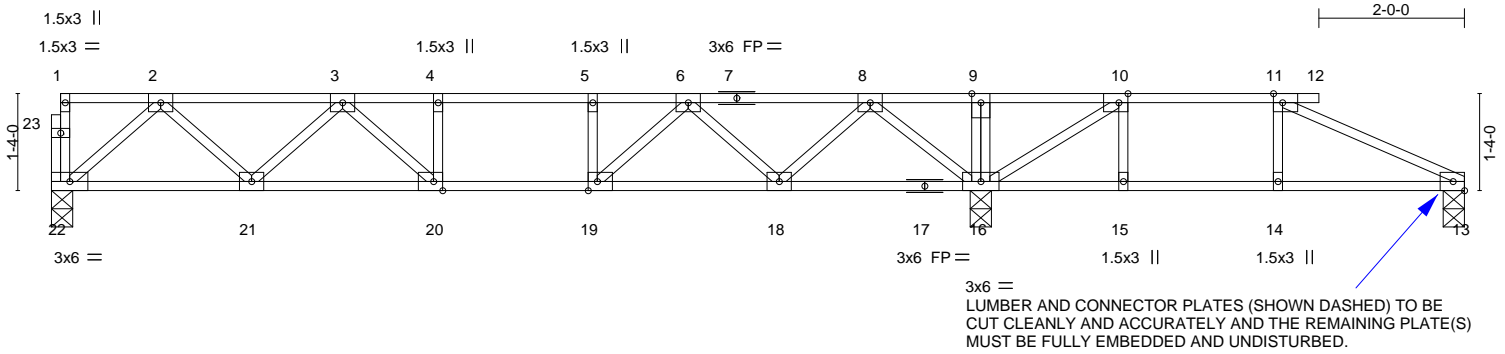


Plate Offsets (X,Y)--	[10:0-1-8,Edge], [11:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 2-0-0 Lumber DOL 1.00	TC 0.37	Vert(LL) -0.08	20-21	>999	480	MT20	244/190
TCDL 10.0	Rep Stress Incr YES	BC 0.42	Vert(CT) -0.11	20-21	>999	360		
BCLL 0.0	Code IRC2018/TPI2014	WB 0.30	Horz(CT) 0.02	13	n/a	n/a		
BCDL 5.0		Matrix-S					Weight: 94 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. (size) 22=0-3-8, 16=0-3-8, 13=0-3-8
Max Grav 22=672(LC 10), 16=1119(LC 9), 13=174(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1133/0, 3-4=-1700/0, 4-5=-1700/0, 5-6=-1700/0, 6-8=-1079/0, 8-9=0/356, 9-10=0/357, 10-11=-337/1
BOT CHORD 21-22=0/717, 20-21=0/1517, 19-20=0/1700, 18-19=0/1482, 16-18=0/647, 15-16=-1/337, 14-15=-1/337, 13-14=-1/337
WEBS 2-22=-952/0, 2-21=0/579, 3-21=-534/0, 3-20=0/393, 8-16=-1060/0, 8-18=0/626, 6-18=-595/0, 6-19=0/476, 10-16=-655/0, 11-13=-372/2

- 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.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.



May 30, 2023

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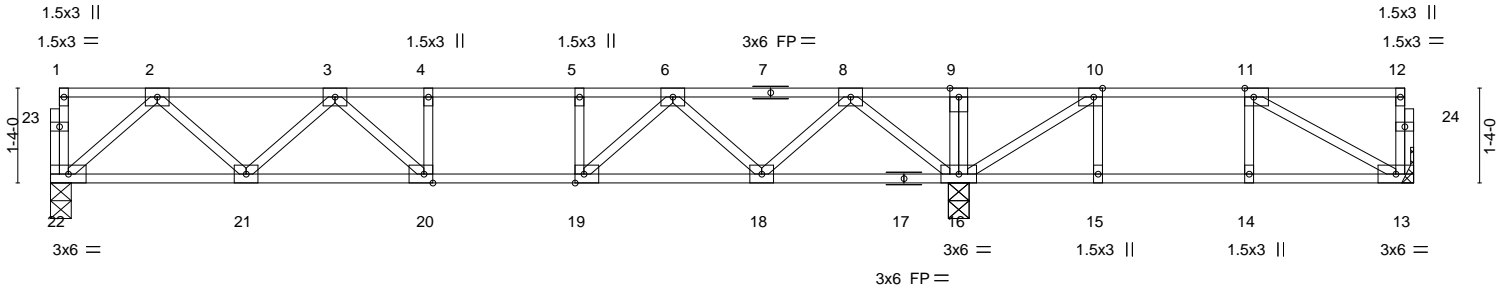


818 Soundside Road
Edenton, NC 27932

Job J0523-2746	Truss F08	Truss Type Floor	Qty 2	Ply 1	Lot 8 Williams Farms Job Reference (optional)	I58612631
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Comtech, Inc., Fayetteville, NC 28309

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue May 30 06:57:22 2023 Page 1
ID:GkNARKr7gHkmb3G?MseBAQzy7GQ-SVAneSAsaB_hYubW6qjD7q0SWrjFhtUwkAmGFjzBYgR



12-9-4
12-9-4
19-2-0
6-4-12

Plate Offsets (X,Y)-- [10:0-1-8,Edge], [11:0-1-8,Edge], [19:0-1-8,Edge], [20:0-1-8,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 0.35	Vert(LL)	-0.08 20-21	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.41	Vert(CT)	-0.10 20-21	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.02 13	n/a	n/a		
BCDL 5.0	Code	IRC2018/TPI2014	Matrix-S					Weight: 99 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. All bearings 0-3-8 except (jt=length) 13=Mechanical.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 22=675(LC 10), 16=1123(LC 9), 16=1116(LC 1), 13=329(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1139/0, 3-4=-1714/0, 4-5=-1714/0, 5-6=-1714/0, 6-8=-1102/0, 8-9=0/374, 9-10=0/375, 10-11=-403/26
BOT CHORD 21-22=0/720, 20-21=0/1526, 19-20=0/1714, 18-19=0/1502, 16-18=0/672, 15-16=-26/403, 14-15=-26/403, 13-14=-26/403
WEBS 2-22=-956/0, 2-21=0/583, 3-21=-538/0, 3-20=0/399, 8-16=-1066/0, 8-18=0/628, 6-18=-598/0, 6-19=0/459, 10-16=-675/0, 11-13=-455/31

- 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.



May 30, 2023

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

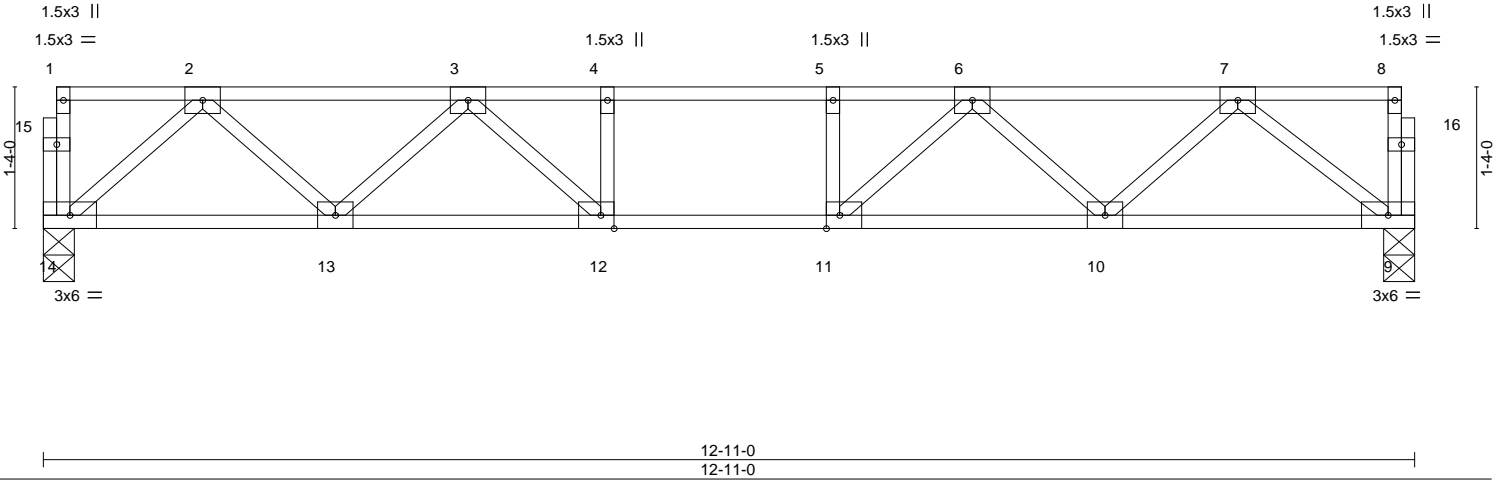
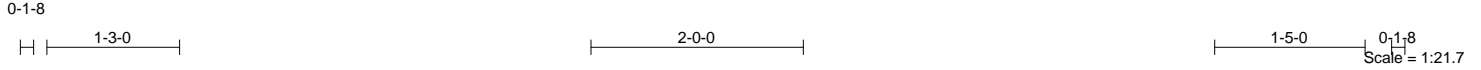


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Williams Farms	158612632
J0523-2746	F09	Floor	4	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon May 29 09:12:04 2023 Page 1
ID:GkNARKr7gHkmb3G?MseBAQzy7GQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.09 10-11 >999 480	MT20	244/190		
TCDL	10.0	Lumber DOL	1.00	BC	0.43	Vert(CT)	-0.11 10-11 >999 360			Weight: 67 lb	FT = 20%F, 11%E
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02 9 n/a n/a				
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-S							

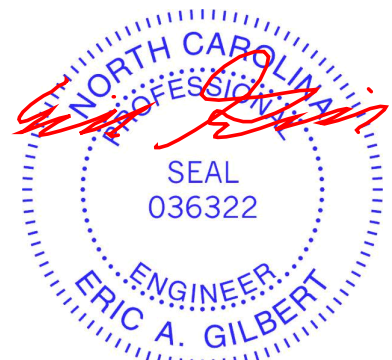
LUMBER-
 TOP CHORD 2x4 SP No.1 (flat)
 BOT CHORD 2x4 SP No.1 (flat)
 WEBS 2x4 SP No.3 (flat)

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

REACTIONS. (size) 14=0-3-8, 9=0-3-8
 Max Grav 14=690(LC 1), 9=690(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1170/0, 3-4=-1792/0, 4-5=-1792/0, 5-6=-1792/0, 6-7=-1227/0
 BOT CHORD 13-14=0/737, 12-13=0/1575, 11-12=0/1792, 10-11=0/1610, 9-10=0/811
 WEBS 2-14=-978/0, 2-13=0/602, 3-13=-564/0, 3-12=0/480, 7-9=-1028/0, 7-10=0/579,
 6-10=-532/0, 6-11=0/446

- 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.



May 30, 2023

Job	Truss	Truss Type	Qty	Ply	Lot 8 Williams Farms	158612633
J0523-2746	F10	Floor	6	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon May 29 09:12:05 2023 Page 1
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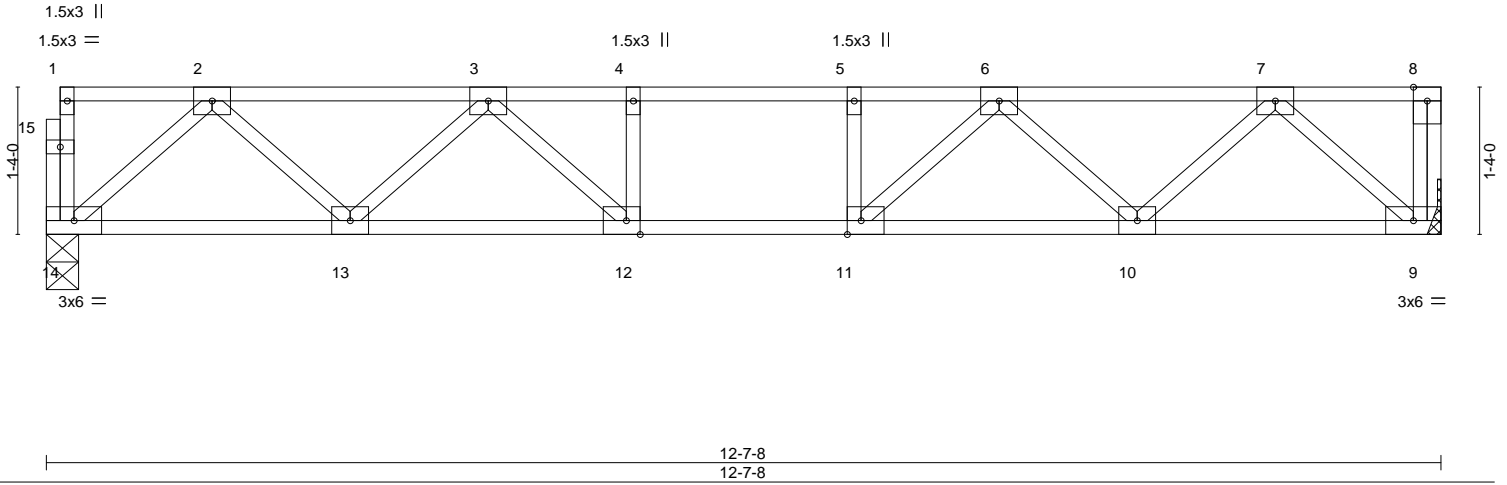
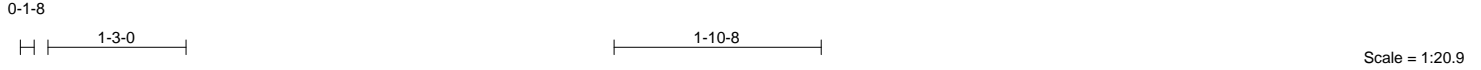


Plate Offsets (X,Y)-- [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.39	Vert(LL) -0.08 10-11 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.28	Vert(CT) -0.10 10-11 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 9 n/a n/a		
	Code IRC2018/TPI2014			Weight: 66 lb	FT = 20%F, 11%E

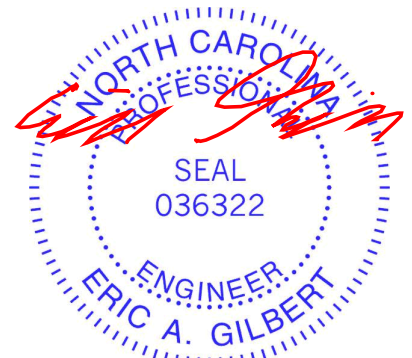
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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. (size) 14=0-3-8, 9=Mechanical
Max Grav 14=674(LC 1), 9=681(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1136/0, 3-4=-1713/0, 4-5=-1713/0, 5-6=-1713/0, 6-7=-1137/0
BOT CHORD 13-14=0/718, 12-13=0/1524, 11-12=0/1713, 10-11=0/1524, 9-10=0/719
WEBS 2-14=-954/0, 2-13=0/581, 3-13=-539/0, 3-12=0/440, 7-9=-957/0, 7-10=0/581,
6-10=-538/0, 6-11=0/440

- 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.



May 30, 2023

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818 Soundside Road
Edenton, NC 27932

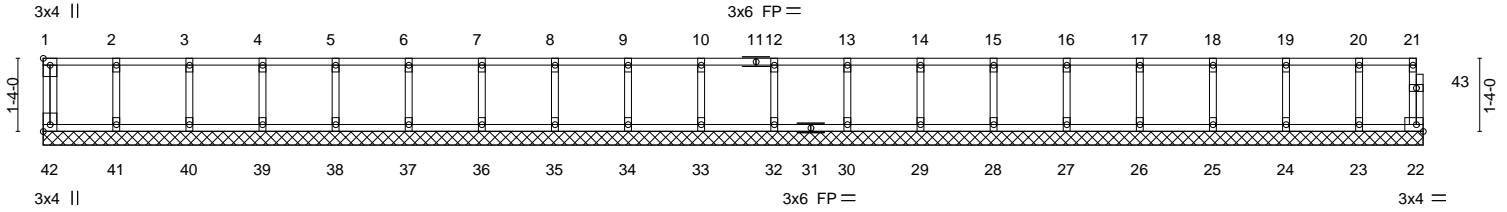
Job	Truss	Truss Type	Qty	Ply	Lot 8 Williams Farms	158612634
J0523-2746	KW1	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon May 29 09:12:06 2023 Page 1
 ID:GkNARKr7gHkmb3G?MseBAQzy7GQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8

Scale = 1:42.0



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-2-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-0

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	2-0-0	TC	0.06	Vert(LL)	in	(loc)	l/defl	L/d	MT20		244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	22	n/a	n/a			
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R									Weight: 110 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)		
OTHERS	2x4 SP No.3(flat)		

REACTIONS. All bearings 25-2-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 8) CAUTION, Do not erect truss backwards.



Job	Truss	Truss Type	Qty	Ply	Lot 8 Williams Farms	158612635
J0523-2746	KW2	GABLE	1	1	Job Reference (optional)	

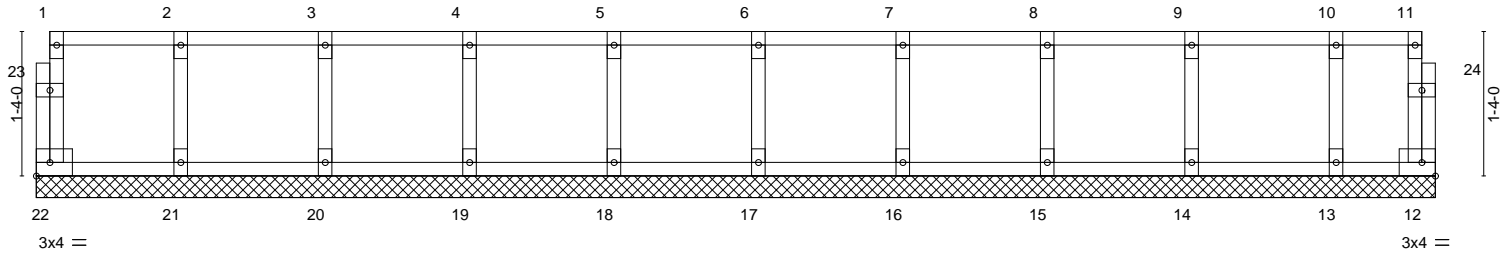
Comtech, Inc., Fayetteville, NC - 28314,

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0₁:8

0₁:8

Scale = 1:21.3



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-11-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-11-0

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 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL 5.0	Code IRC2018/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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



May 30, 2023

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 8 Williams Farms	158612636
J0523-2746	KW3	GABLE	1	1	Job Reference (optional)	

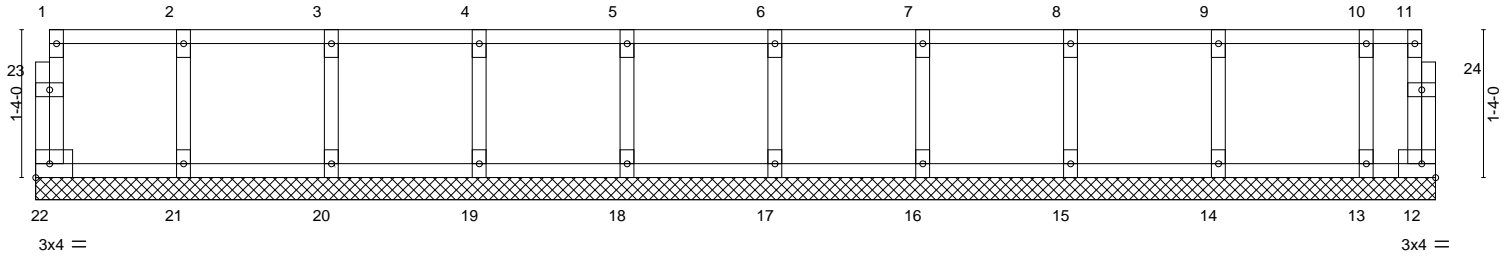
Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon May 29 09:12:08 2023 Page 1
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0₁8

0₁8

Scale = 1:20.8



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	12-7-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL 5.0	Code IRC2018/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 12-7-8.

(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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



May 30, 2023

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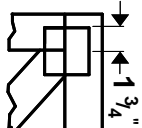
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



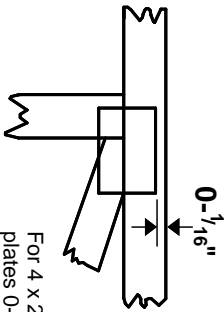
818 Soundside Road
Edenton, NC 27932

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

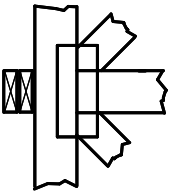
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



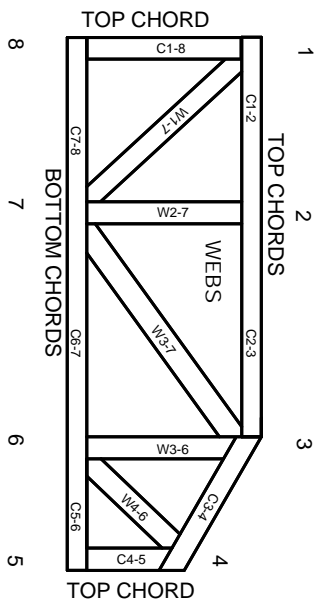
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 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/TPI 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/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. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.