

RE: J0723-3806
 1850 Shady Grove Rd.

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: Project Name: J0723-3806
 Lot/Block: Model:
 Address: Subdivision:
 City: State:

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4
 Wind Code: N/A Wind Speed: N/A mph
 Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 15 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	I59168544	ET1	6/26/2023
2	I59168545	ET2	6/26/2023
3	I59168546	ET3	6/26/2023
4	I59168547	ET4	6/26/2023
5	I59168548	F01	6/26/2023
6	I59168549	F02	6/26/2023
7	I59168550	F03	6/26/2023
8	I59168551	F04	6/26/2023
9	I59168552	F05	6/26/2023
10	I59168553	F06	6/26/2023
11	I59168554	F07	6/26/2023
12	I59168555	F08	6/26/2023
13	I59168556	F09	6/26/2023
14	I59168557	F10	6/26/2023
15	I59168558	F11	6/26/2023

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, 2023.
 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.



June 26, 2023

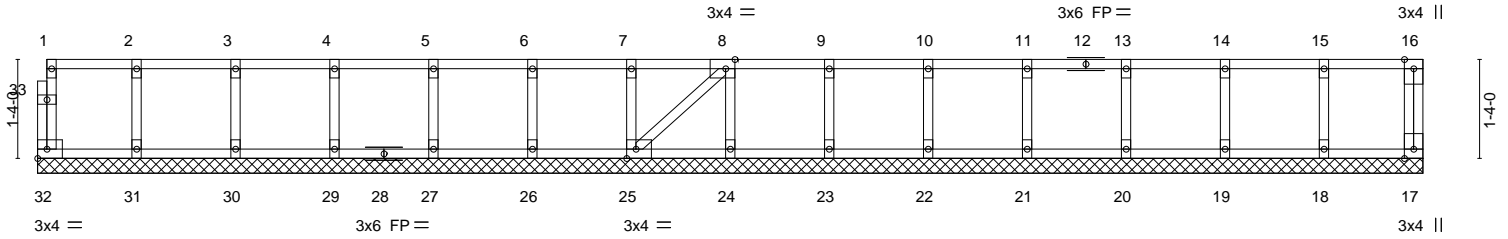
Job J0723-3806	Truss ET1	Truss Type GABLE	Qty 1	Ply 1	1850 Shady Grove Rd. Job Reference (optional)	I59168544
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jun 26 06:51:01 2023 Page 1
ID:tLzISiCk4ttUXohUqmfGStyJZ5j-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8

Scale = 1:31.0



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
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

Plate Offsets (X, Y)-- [8:0-1-8,Edge], [25:0-1-8,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 0.06	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	17	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 85 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 18-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

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.
 - CAUTION, Do not erect truss backwards.



June 26, 2023

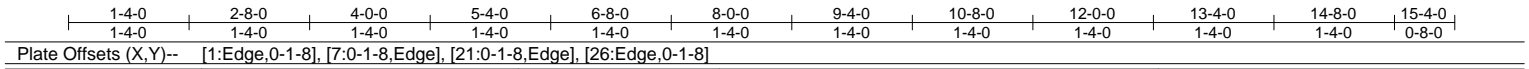
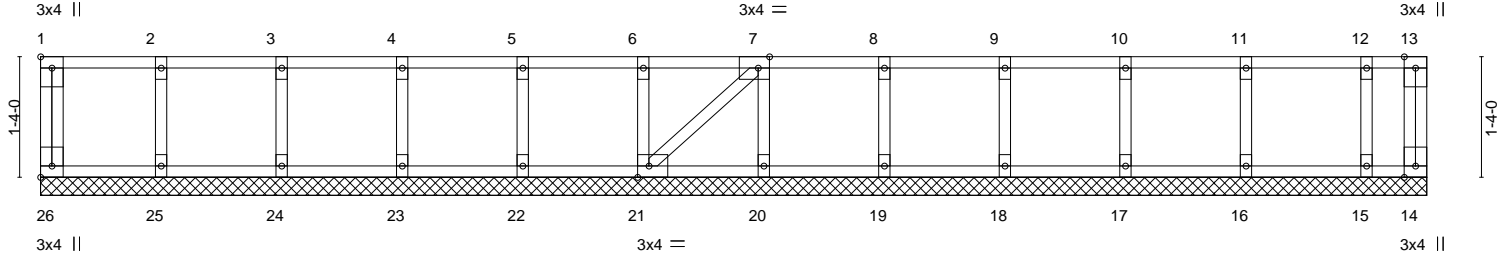
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	1850 Shady Grove Rd.	I59168545
J0723-3806	ET2	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jun 26 06:51:02 2023 Page 1
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Scale = 1:25.5



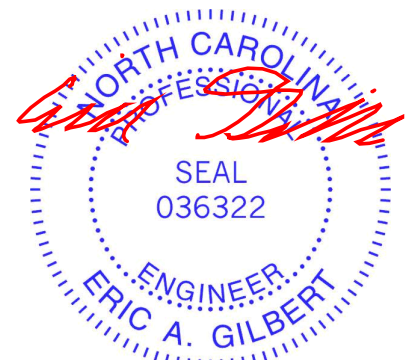
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	16	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S					Weight: 72 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 10-0-0 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 15-4-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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.



June 26, 2023

Job J0723-3806	Truss ET3	Truss Type GABLE	Qty 1	Ply 1	1850 Shady Grove Rd. Job Reference (optional)	I59168546
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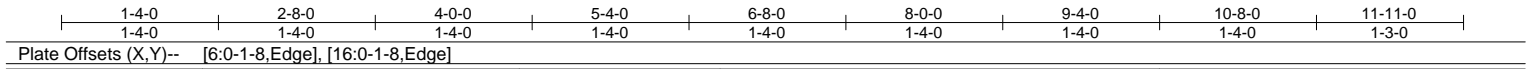
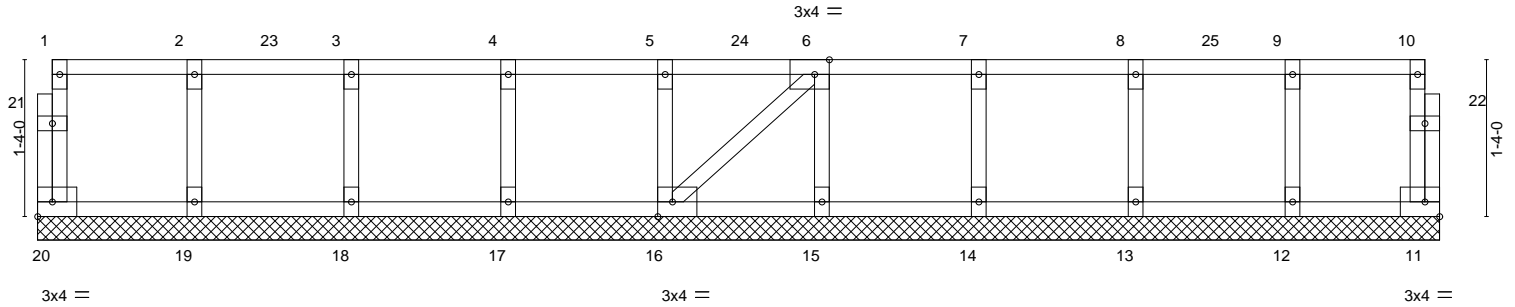
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jun 26 06:51:03 2023 Page 1
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0₁-8

0₁-8

Scale = 1:19.6



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 0.12	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 0.05	Horz(CT)	0.00	11	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 56 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 11-11-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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.

LOAD CASE(S) Standard

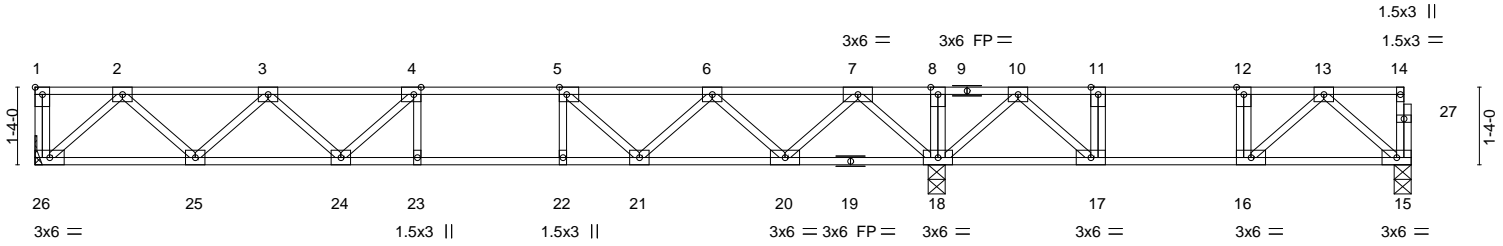
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-20=-10, 1-10=-100
Concentrated Loads (lb)
Vert: 4=-92 7=-92 23=-92 24=-92 25=-92



Job J0723-3806	Truss F01	Truss Type Floor	Qty 1	Ply 1	1850 Shady Grove Rd. Job Reference (optional)	159168548
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jun 26 06:51:05 2023 Page 1
ID:tLzISiCk4ttUXohUqmfgStyJZ5j-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



	15-5-12	15-6-0	23-7-8
	15-5-12	0-0-4	8-1-8
Plate Offsets (X,Y)--	[1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge]		

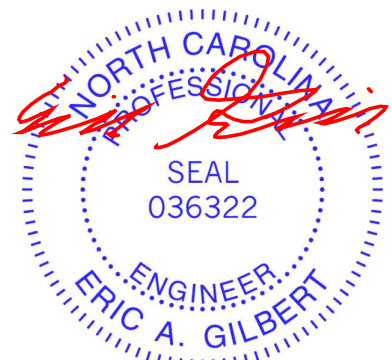
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.53	Vert(LL)	-0.17	23-24	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.82	Vert(CT)	-0.22	23-24	>857	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.04	15	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 124 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, Except: 6-0-0 oc bracing: 17-18,16-17.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 26=Mechanical, 18=0-3-8, 15=0-3-8
Max Grav 26=810(LC 10), 18=1425(LC 1), 15=401(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1423/0, 3-4=-2212/0, 4-5=-2432/0, 5-6=-2066/0, 6-7=-1128/0, 7-8=0/713, 8-10=0/713, 10-11=-586/83, 11-12=-586/83, 12-13=-586/83
 BOT CHORD 25-26=0/860, 24-25=0/1958, 23-24=0/2432, 22-23=0/2432, 21-22=0/2432, 20-21=0/1727, 18-20=0/493, 17-18=-345/238, 16-17=-83/586, 15-16=0/379
 WEBS 2-26=-1145/0, 2-25=0/783, 3-25=-745/0, 3-24=0/376, 4-24=-429/0, 7-18=-1261/0, 7-20=0/911, 6-20=-862/0, 6-21=0/511, 5-21=-632/0, 10-18=-688/0, 10-17=0/672, 11-17=-356/0, 13-15=-500/0, 13-16=-127/276

- 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.



June 26, 2023

<p>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</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0723-3806	Truss F02	Truss Type FLOOR	Qty 4	Ply 1	1850 Shady Grove Rd. Job Reference (optional)	I59168549
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jun 26 06:51:06 2023 Page 1
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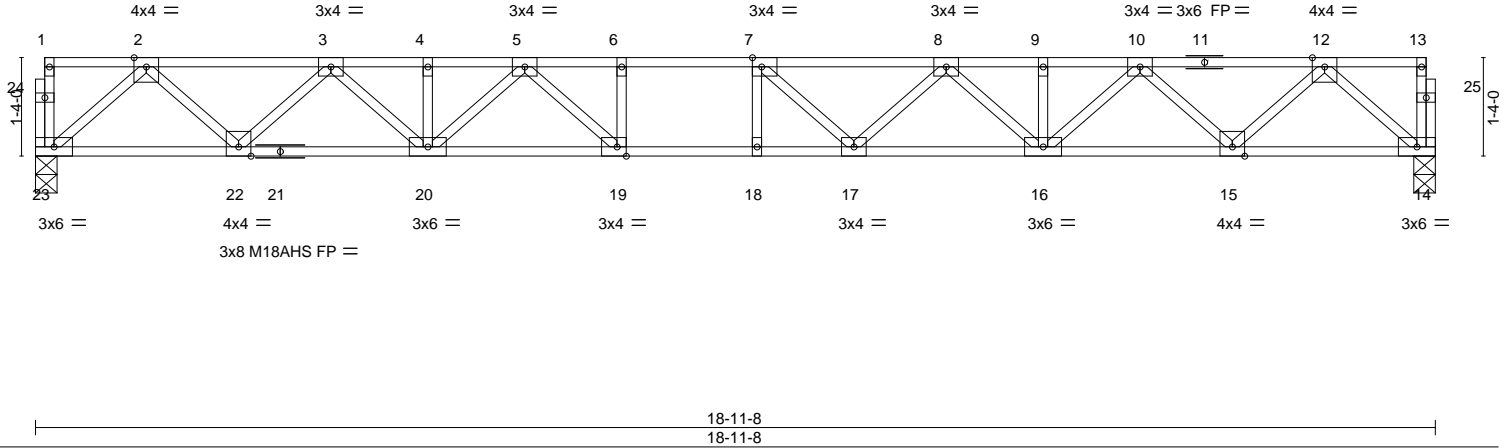
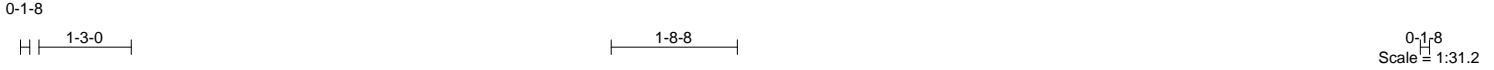


Plate Offsets (X, Y)-- [7:0-1-8,Edge], [19:0-1-8,Edge]

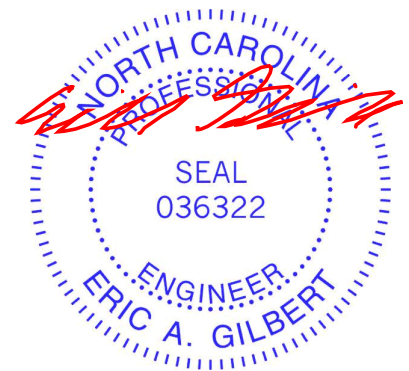
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.38	Vert(LL)	-0.24	18	>939	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.60	Vert(CT)	-0.33	17-18	>686	M18AHS	186/179
BCLL 0.0	Rep Stress Incr	YES	WB 0.52	Horz(CT)	0.06	14	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 100 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 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 23=0-3-8, 14=0-3-8
Max Grav 23=1023(LC 1), 14=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=-3184/0, 4-5=-3184/0, 5-6=-3940/0, 6-7=-3940/0, 7-8=-3823/0, 8-9=-3179/0, 9-10=-3179/0, 10-12=-1891/0
 BOT CHORD 22-23=0/1113, 20-22=0/2637, 19-20=0/3610, 18-19=0/3940, 17-18=0/3940, 16-17=0/3645, 15-16=0/2641, 14-15=0/1112
 WEBS 2-23=-1479/0, 2-22=0/1084, 3-22=-1036/0, 3-20=0/744, 5-20=-578/0, 5-19=0/710, 6-19=-308/0, 12-14=-1478/0, 12-15=0/1085, 10-15=-1042/0, 10-16=0/732, 8-16=-633/0, 8-17=0/407, 7-17=-466/162

- 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.



Job J0723-3806	Truss F03	Truss Type Floor	Qty 9	Ply 1	1850 Shady Grove Rd. I59168550 Job Reference (optional)
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jun 26 06:51:07 2023 Page 1
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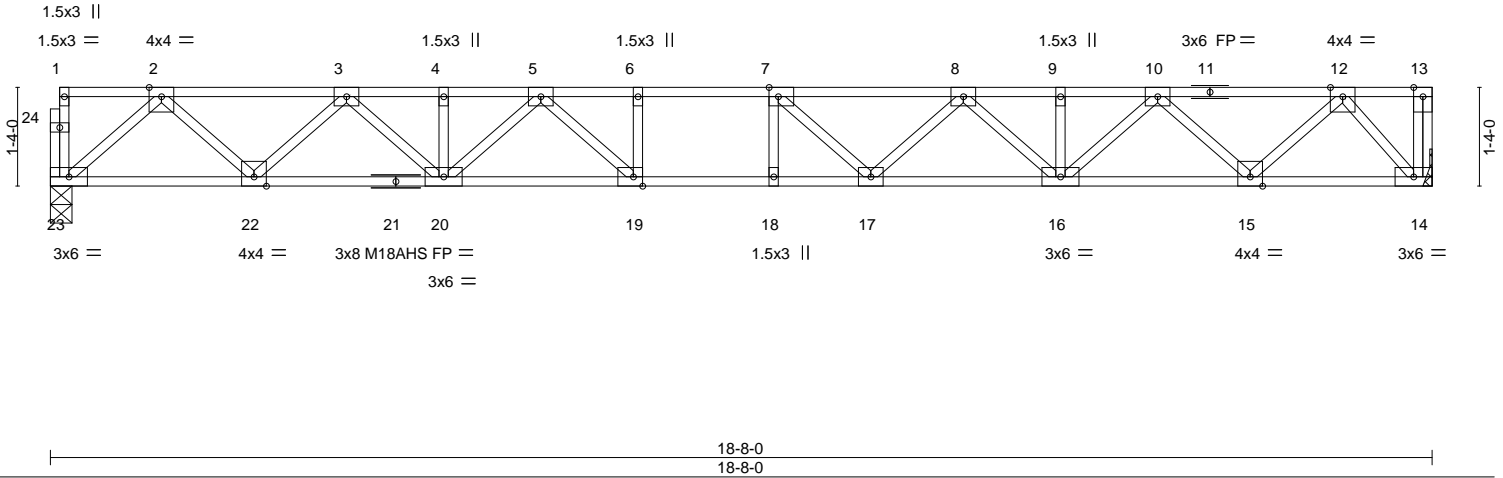


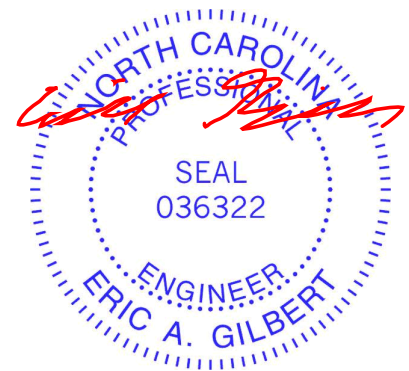
Plate Offsets (X, Y)--	[7:0-1-8,Edge], [19:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.35	Vert(LL) -0.22 18 >998 480	MT20 244/190	
TCDL 10.0	Lumber DOL 1.00	BC 0.57	Vert(CT) -0.30 18 >729 360	M18AHS 186/179	
BCLL 0.0	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.05 14 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 100 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 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 23=0-3-8, 14=Mechanical
Max Grav 23=1007(LC 1), 14=1013(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1857/0, 3-4=-3117/0, 4-5=-3117/0, 5-6=-3825/0, 6-7=-3825/0, 7-8=-3678/0, 8-9=-3002/0, 9-10=-3002/0, 10-12=-1678/0
 BOT CHORD 22-23=0/1095, 20-22=0/2586, 19-20=0/3524, 18-19=0/3825, 17-18=0/3825, 16-17=0/3481, 15-16=0/2444, 14-15=0/884
 WEBS 2-23=-1455/0, 2-22=0/1061, 3-22=-1014/0, 3-20=0/721, 5-20=-553/0, 5-19=-13/675, 6-19=-294/0, 12-14=-1324/0, 12-15=0/1105, 10-15=-1065/0, 10-16=0/757, 8-16=-652/0, 8-17=0/419, 7-17=-484/128

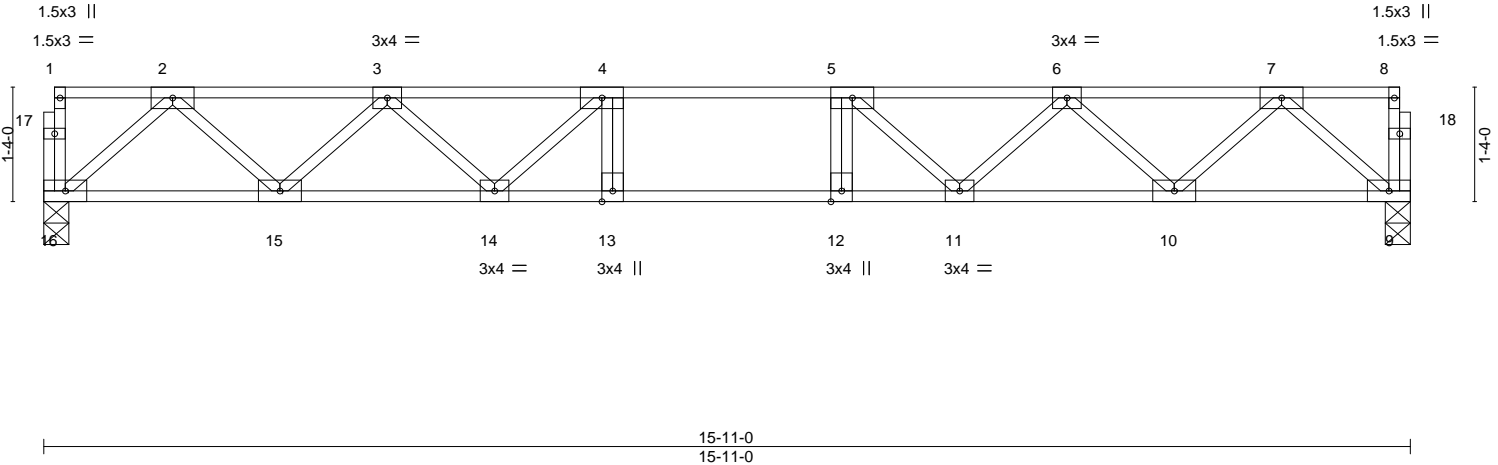
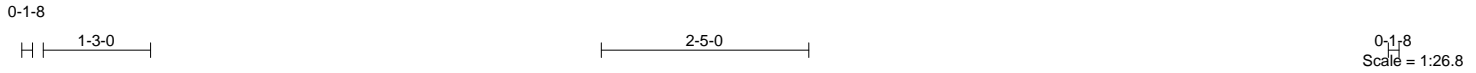
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) Plates checked for a plus or minus 1 degree rotation about its center.
 - 5) Refer to girder(s)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



Job J0723-3806	Truss F04	Truss Type Floor	Qty 5	Ply 1	1850 Shady Grove Rd. Job Reference (optional)	I59168551
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jun 26 06:51:08 2023 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.49	Vert(LL)	-0.19 13-14	>999	480	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.82	Vert(CT)	-0.23 13-14	>803	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: 84 lb	FT = 20%F, 11%E
	Code IRC2015/TPI2014							

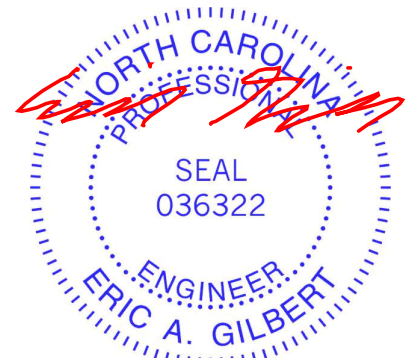
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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. (size) 16=0-3-8, 9=0-3-8
Max Grav 16=855(LC 1), 9=855(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1533/0, 3-4=-2429/0, 4-5=-2753/0, 5-6=-2429/0, 6-7=-1533/0
BOT CHORD 15-16=0/919, 14-15=0/2117, 13-14=0/2753, 12-13=0/2753, 11-12=0/2753, 10-11=0/2117, 9-10=0/919
WEBS 2-16=-1221/0, 2-15=0/854, 3-15=-812/0, 3-14=0/488, 4-14=-621/0, 7-9=-1221/0, 7-10=0/854, 6-10=-812/0, 6-11=0/488, 5-11=-621/0

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.



June 26, 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 J0723-3806	Truss F05	Truss Type Floor	Qty 8	Ply 1	1850 Shady Grove Rd. Job Reference (optional)	159168552
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jun 26 06:51:09 2023 Page 1
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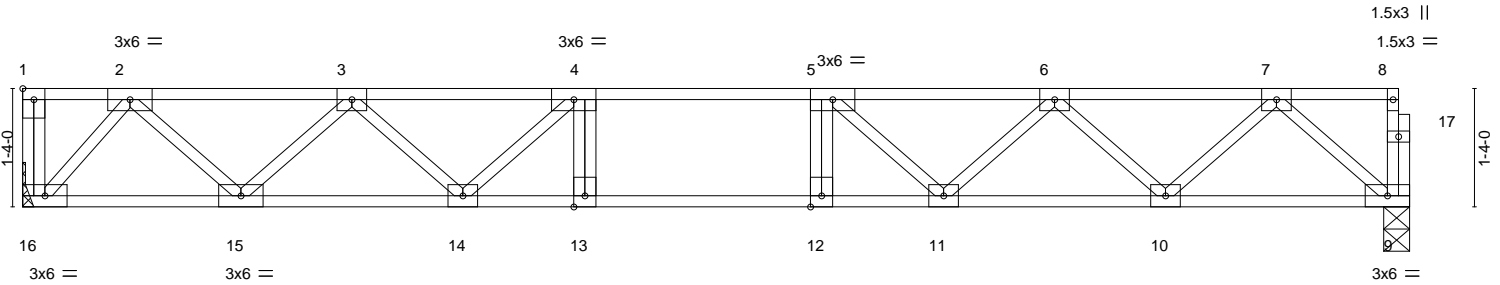
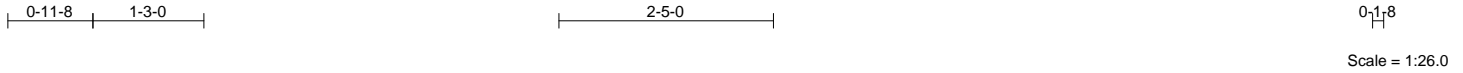


Plate Offsets (X,Y)-- [1:Edge,0-1-8]		15-7-8 15-7-8			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.51	Vert(LL) -0.19 11-12 >985 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.84	Vert(CT) -0.24 11-12 >780 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.42	Horz(CT) 0.04 9 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 83 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. (size) 16=Mechanical, 9=0-3-8
Max Grav 16=846(LC 1), 9=839(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1360/0, 3-4=-2290/0, 4-5=-2650/0, 5-6=-2361/0, 6-7=-1499/0
BOT CHORD 15-16=0/732, 14-15=0/1958, 13-14=0/2650, 12-13=0/2650, 11-12=0/2650, 10-11=0/2068, 9-10=0/900
WEBS 2-16=-1096/0, 2-15=0/874, 3-15=-832/0, 3-14=0/503, 4-14=-646/0, 7-9=-1195/0, 7-10=0/833, 6-10=-793/0, 6-11=0/464, 5-11=-580/0

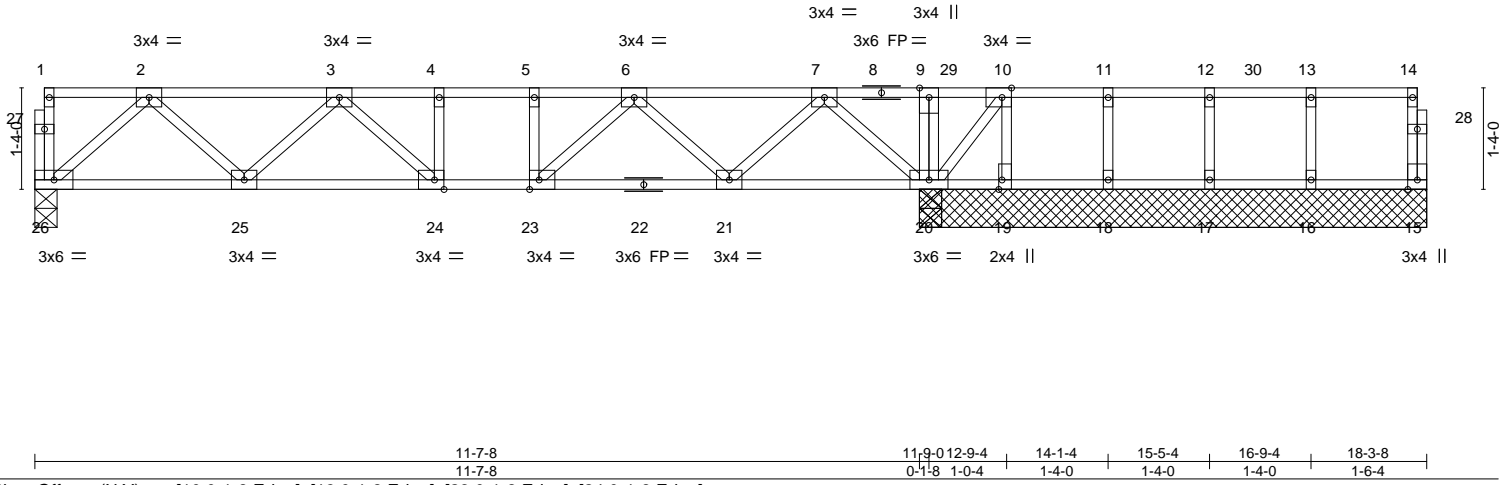
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Recommend 2x6 strongbacks, 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.



Job	Truss	Truss Type	Qty	Ply	1850 Shady Grove Rd.	
J0723-3806	F06	Floor	1	1		I59168553
					Job Reference (optional)	

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8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jun 26 06:51:10 2023 Page 1
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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 0.27	Vert(LL)	-0.05	24-25	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.32	Vert(CT)	-0.06	24-25	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.01	15	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S					Weight: 95 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. All bearings 6-8-0 except (jt=length) 26=0-3-8.
 (lb) - Max Uplift All uplift 100 lb or less at joint(s) except 19=602(LC 1)
 Max Grav All reactions 250 lb or less at joint(s) 15, 16, 17, 18 except 26=563(LC 1), 20=1615(LC 1), 20=1615(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-901/0, 3-4=-1186/0, 4-5=-1186/0, 5-6=-1186/0, 6-7=-518/0, 7-9=0/642, 9-10=0/641
 BOT CHORD 25-26=0/592, 24-25=0/1168, 23-24=0/1186, 21-23=0/946
 WEBS 2-26=-786/0, 2-25=0/430, 3-25=-372/0, 7-20=-961/0, 7-21=0/612, 10-19=0/594, 10-20=-992/0, 6-21=-596/0, 6-23=0/409

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 602 lb uplift at joint 19.
 - 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: 15-26=-10, 1-14=-100
 Concentrated Loads (lb)
 Vert: 11=-112 29=-112 30=-112

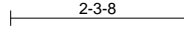
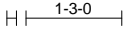


Job J0723-3806	Truss F07	Truss Type Floor	Qty 3	Ply 1	1850 Shady Grove Rd. Job Reference (optional)	I59168554
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8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jun 26 06:51:11 2023 Page 1
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0-1-8



0-1-8
Scale = 1:30.1

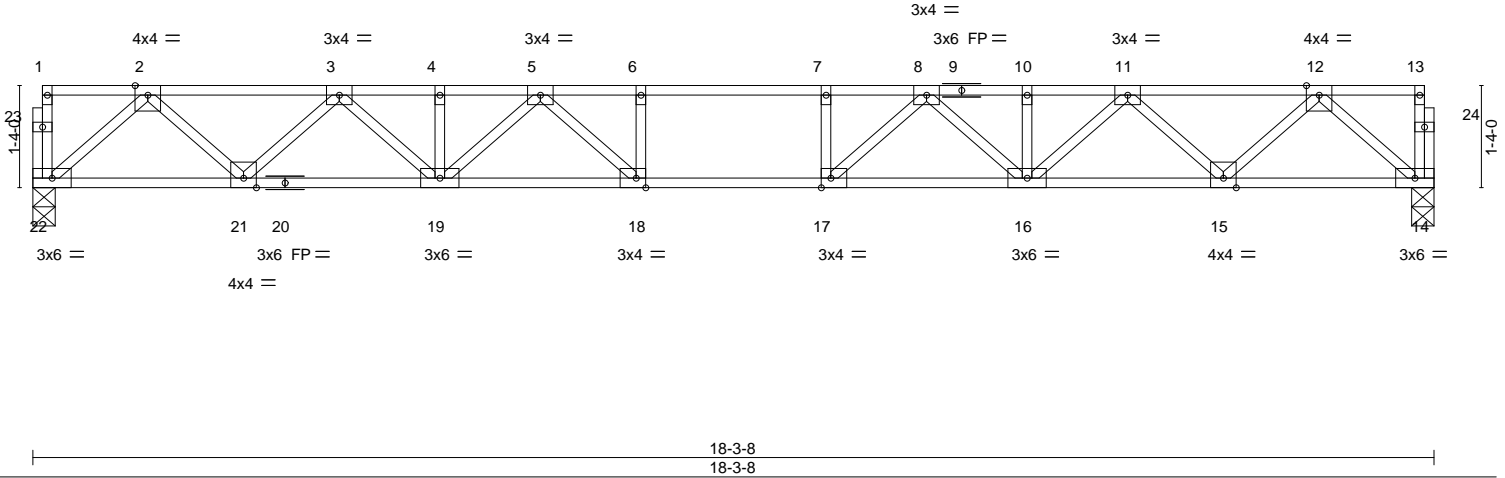


Plate Offsets (X,Y)--	[17:0-1-8,Edge], [18:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.66	Vert(LL) -0.24 18-19 >885 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.81	Vert(CT) -0.33 18-19 >658 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.06 14 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 96 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. (size) 22=0-3-8, 14=0-3-8
Max Grav 22=986(LC 1), 14=986(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1811/0, 3-4=-3034/0, 4-5=-3034/0, 5-6=-3661/0, 6-7=-3661/0, 7-8=-3661/0, 8-10=-3034/0, 10-11=-3034/0, 11-12=-1811/0
 BOT CHORD 21-22=0/1071, 19-21=0/2523, 18-19=0/3407, 17-18=0/3661, 16-17=0/3407, 15-16=0/2523, 14-15=0/1071
 WEBS 2-22=-1423/0, 2-21=0/1030, 3-21=-989/0, 3-19=0/695, 5-19=-507/0, 5-18=-40/665, 6-18=-338/0, 12-14=-1423/0, 12-15=0/1030, 11-15=-989/0, 11-16=0/695, 8-16=-507/0, 8-17=-40/665, 7-17=-338/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Job J0723-3806	Truss F08	Truss Type Floor	Qty 2	Ply 1	1850 Shady Grove Rd. Job Reference (optional)	I59168555
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8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jun 26 06:51:12 2023 Page 1
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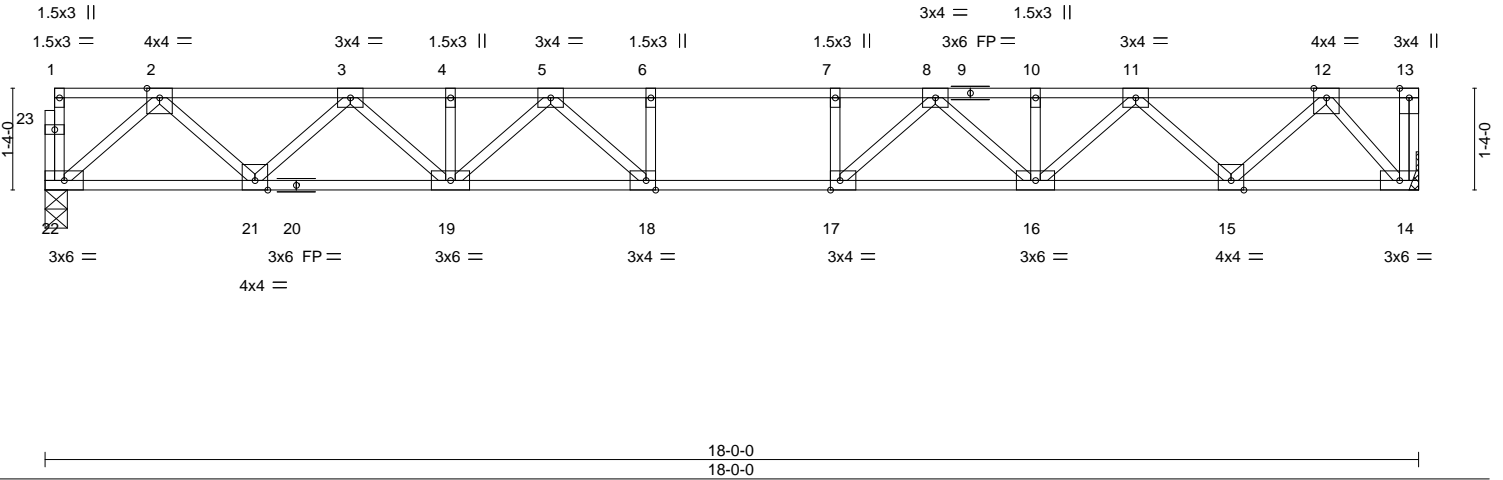
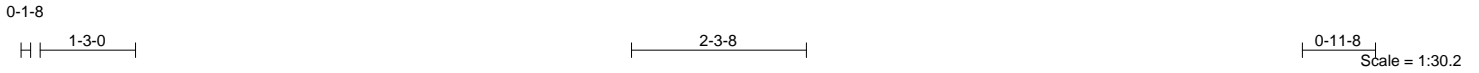


Plate Offsets (X, Y)--	[17:0-1-8,Edge], [18:0-1-8,Edge]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP		
TCLL 40.0	Plate Grip DOL 1.00	TC 0.68	Vert(LL) -0.24 18-19 >873 480	MT20	244/190		
TCDL 10.0	Lumber DOL 1.00	BC 0.82	Vert(CT) -0.33 18-19 >651 360				
BCLL 0.0	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.06 14 n/a n/a				
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S				Weight: 95 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. (size) 22=0-3-8, 14=Mechanical
Max Grav 22=970(LC 1), 14=976(LC 1)

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

TOP CHORD 2-3=-1776/0, 3-4=-2967/0, 4-5=-2967/0, 5-6=-3541/0, 6-7=-3541/0, 7-8=-3541/0, 8-10=-2863/0, 10-11=-2863/0, 11-12=-1607/0

BOT CHORD 21-22=0/1052, 19-21=0/2472, 18-19=0/3321, 17-18=0/3541, 16-17=0/3255, 15-16=0/2334, 14-15=0/852

WEBS 2-22=-1399/0, 2-21=0/1007, 3-21=-968/0, 3-19=0/672, 5-19=-482/0, 5-18=-63/626, 6-18=-320/0, 12-14=-1276/0, 12-15=0/1051, 11-15=-1011/0, 11-16=0/719, 8-16=-532/0, 8-17=-1/688, 7-17=-348/0

- 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.



Job	Truss	Truss Type	Qty	Ply	1850 Shady Grove Rd.	I59168556
J0723-3806	F09	Floor Girder	1	1		
					Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jun 26 06:51:13 2023 Page 1
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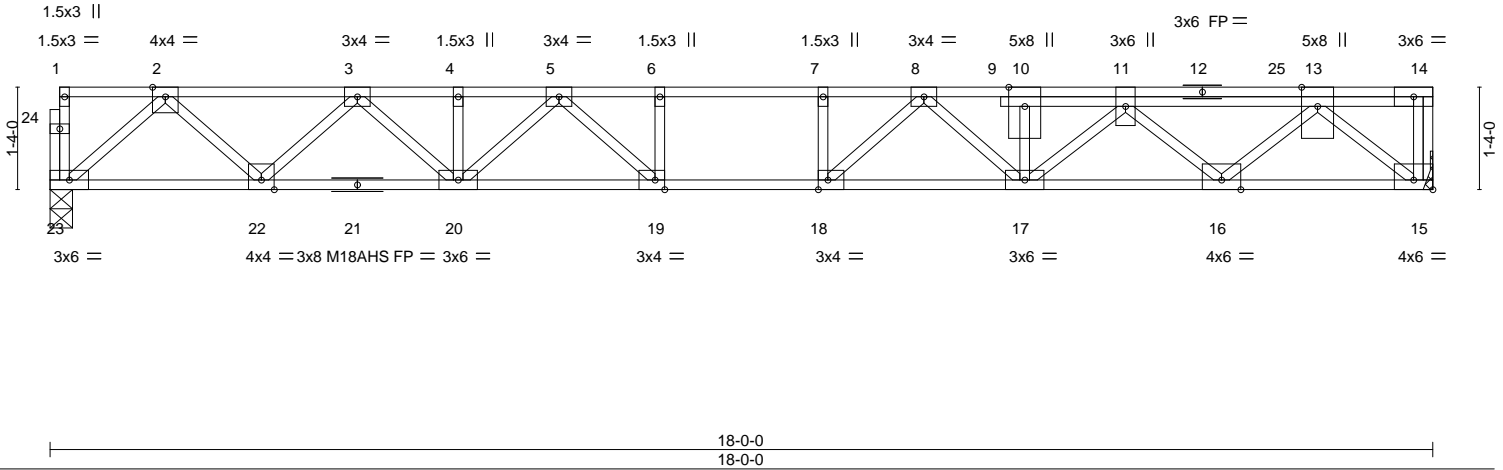
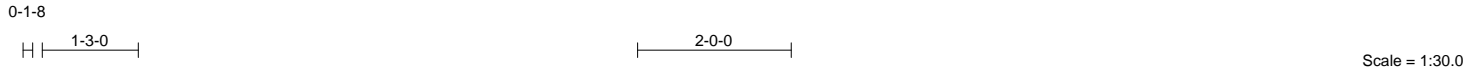


Plate Offsets (X,Y)--	[15:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	BC 0.77	Vert(LL) -0.23 17-18 >928 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	TC 0.63	Vert(CT) -0.32 17-18 >672 360	M18AHS	186/179
BCLL 0.0	Rep Stress Incr NO	WB 0.51	Horz(CT) 0.06 15 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 103 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. (size) 23=0-3-8, 15=Mechanical
 Max Grav 23=1019(LC 1), 15=1398(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1884/0, 3-4=-3170/0, 4-5=-3170/0, 5-6=-3909/0, 6-7=-3909/0, 7-8=-3909/0,
 8-10=-3544/0, 10-11=-3544/0, 11-13=-2466/0
 BOT CHORD 22-23=0/1109, 20-22=0/2627, 19-20=0/3589, 18-19=0/3909, 17-18=0/3765, 16-17=0/3237,
 15-16=0/1670
 WEBS 2-23=-1474/0, 2-22=0/1079, 3-22=-1032/0, 3-20=0/739, 5-20=-570/0, 5-19=0/735,
 6-19=-344/0, 13-15=-2174/0, 13-16=0/1080, 11-16=-1046/0, 11-17=0/407, 8-17=-300/0,
 8-18=-171/468

- 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.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 550 lb down at 16-0-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 15-23=-10, 1-14=-100
 Concentrated Loads (lb)
 Vert: 25=-470(F)



Job J0723-3806	Truss F10	Truss Type Floor	Qty 1	Ply 1	1850 Shady Grove Rd. Job Reference (optional)	I59168557
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8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jun 26 06:51:14 2023 Page 1
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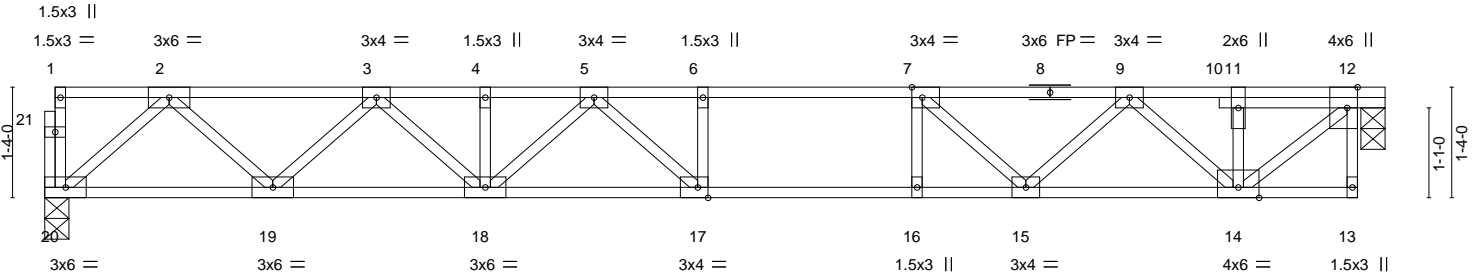
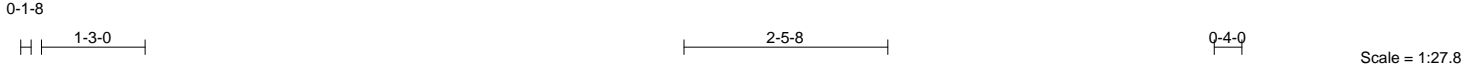


Plate Offsets (X,Y)--	[7:0-1-8,Edge], [12:0-3-0,Edge], [17:0-1-8,Edge]	15-10-0 15-10-0	16-2-0 0-4-0
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.73	Vert(LL)	-0.25 17-18	>741	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.71	Vert(CT)	-0.33 17-18	>563	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.03 12	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S					Weight: 85 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. (size) 20=0-3-8, 12=0-3-8
Max Grav 20=854(LC 1), 12=861(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1522/0, 3-4=-2483/0, 4-5=-2483/0, 5-6=-2672/0, 6-7=-2672/0, 7-9=-2070/0, 9-11=-926/0, 11-12=-926/0
BOT CHORD 19-20=0/919, 18-19=0/2109, 17-18=0/2695, 16-17=0/2672, 15-16=0/2672, 14-15=0/1580
WEBS 12-14=0/1206, 2-20=-1221/0, 2-19=0/839, 3-19=-817/0, 3-18=0/508, 5-18=-307/0, 5-17=-234/348, 9-14=-889/0, 9-15=0/681, 7-15=-900/0, 7-16=-14/284

- 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.
 - 4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 5) CAUTION, Do not erect truss backwards.



<p>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</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0723-3806	Truss F11	Truss Type Floor Girder	Qty 1	Ply 1	1850 Shady Grove Rd. Job Reference (optional)	I59168558
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Mon Jun 26 06:51:15 2023 Page 1
ID:tLzISiCk4ttUXohUqmfgStyJZ5j-RfC?PsB70Hq3NSgPanL8w3uITXbGKWrCDoi7J4zJC?f

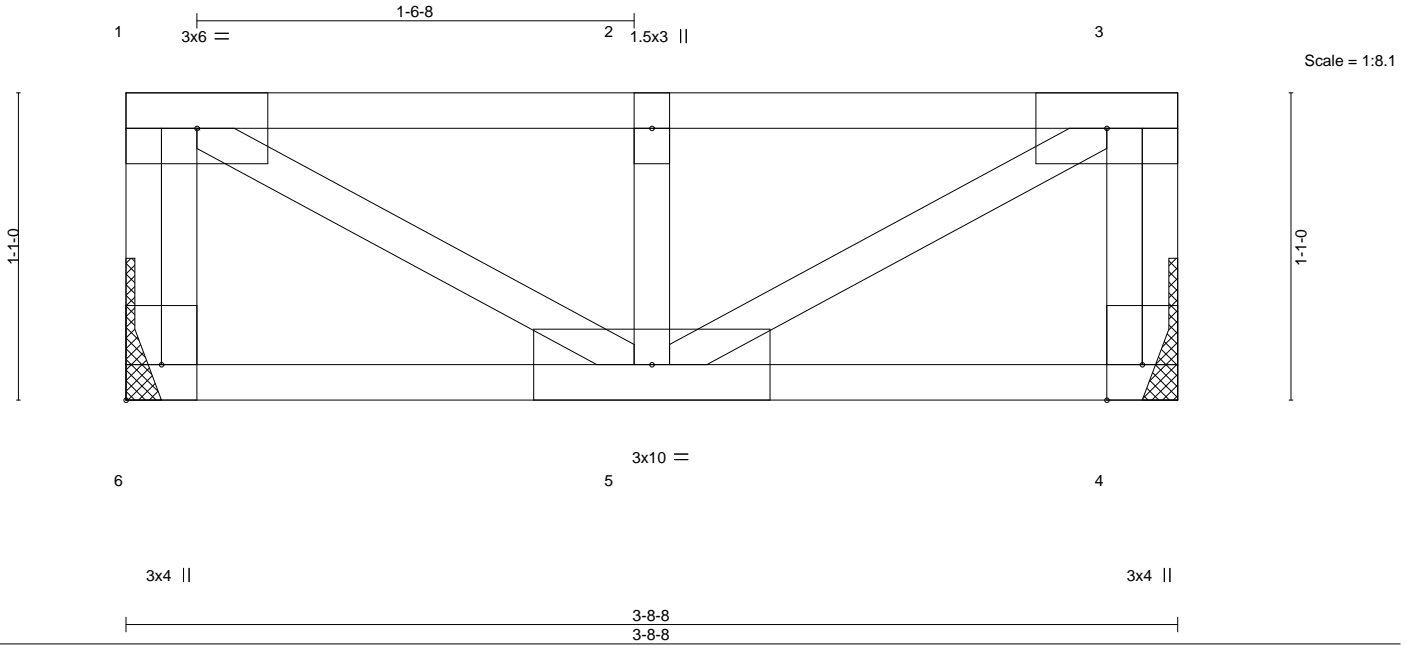


Plate Offsets (X,Y)--	[6:Edge,0-1-8]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP		
TCLL 40.0	Plate Grip DOL 1.00	TC 0.15	Vert(LL) -0.01 5 >999 480	MT20	244/190		
TCDL 10.0	Lumber DOL 1.00	BC 0.04	Vert(CT) -0.01 5 >999 360				
BCLL 0.0	Rep Stress Incr NO	WB 0.48	Horz(CT) -0.00 4 n/a n/a				
BCDL 5.0	Code IRC2015/TPI2014	Matrix-P				Weight: 22 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 3-8-8 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. (size) 6=Mechanical, 4=Mechanical
Max Grav 6=570(LC 1), 4=570(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-558/0, 3-4=-558/0, 1-2=-877/0, 2-3=-877/0
WEBS 1-5=0/1003, 2-5=-963/0, 3-5=0/1003

NOTES-
1) Plates checked for a plus or minus 1 degree rotation about its center.
2) Refer to girder(s) for truss to truss connections.
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.

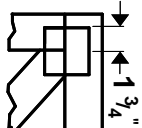
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-6=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 2=-761



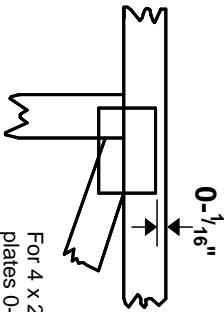
June 26, 2023

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

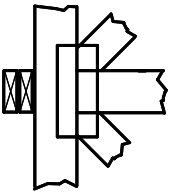
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



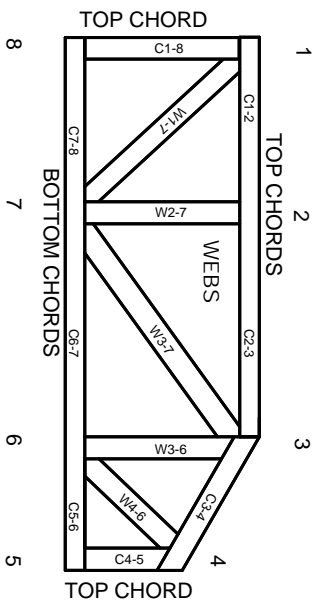
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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: MII-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.