

RE: 29647A
69 PRINCE PLACE - FLOOR

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Project Name: 29647A
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 8.5
Wind Code: N/A Wind Speed: N/A mph
Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 17 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	I46973842	F1	7/13/2021
2	I46973843	F2	7/13/2021
3	I46973844	F3	7/13/2021
4	I46973845	F4	7/13/2021
5	I46973846	F5	7/13/2021
6	I46973847	F6	7/13/2021
7	I46973848	F7G	7/13/2021
8	I46973849	F8G	7/13/2021
9	I46973850	F9	7/13/2021
10	I46973851	F11	7/13/2021
11	I46973852	F12	7/13/2021
12	I46973853	KW1	7/13/2021
13	I46973854	KW2	7/13/2021
14	I46973855	KW3	7/13/2021
15	I46973856	KW4	7/13/2021
16	I46973857	KW5	7/13/2021
17	I46973858	KW6	7/13/2021

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Truss Design Engineer's Name: Fox, Steve

My license renewal date for the state of North Carolina is December 31, 2022.

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.



Job 29647A	Truss F1	Truss Type FLOOR	Qty 6	Ply 1	69 PRINCE PLACE - FLOOR	146973842
---------------	-------------	---------------------	----------	----------	-------------------------	-----------

84 Components (Dunn), Dunn, NC - 28334,

8,510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:43 2021 Page 1
ID: NS3h4WSAr6NUQemYdajYWgyykej-V7h2HYxmhFcU2QPe2EAxAH51S9FaXSL2TKvaPDyyXEE

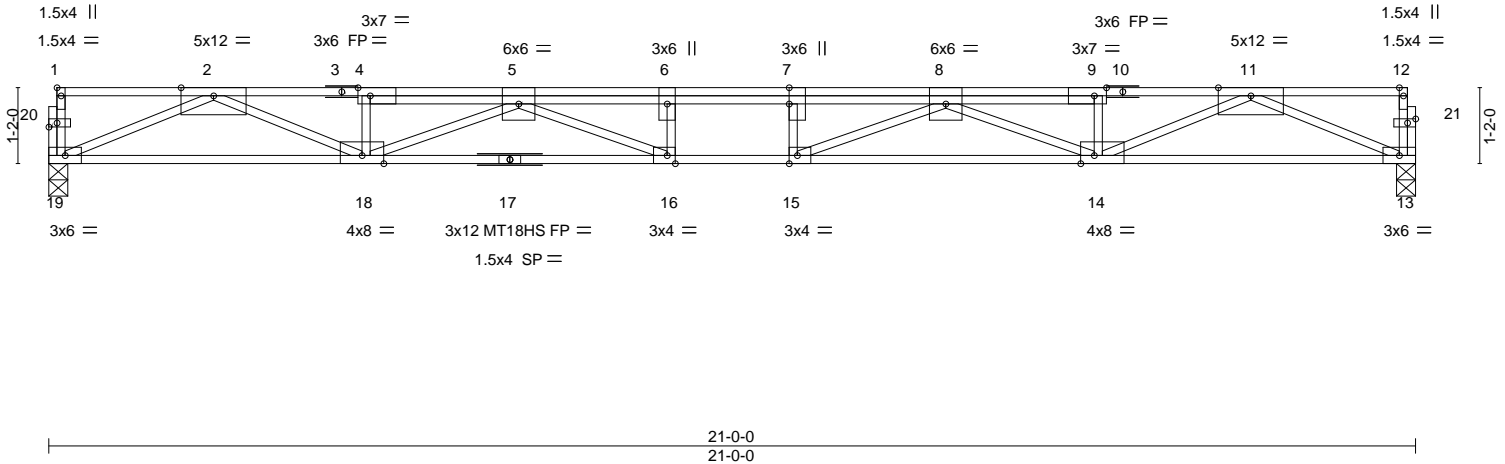
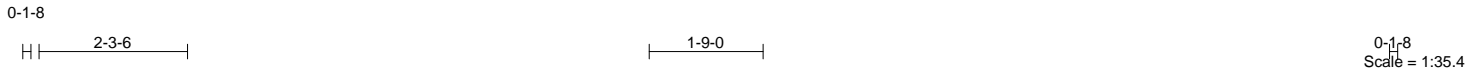


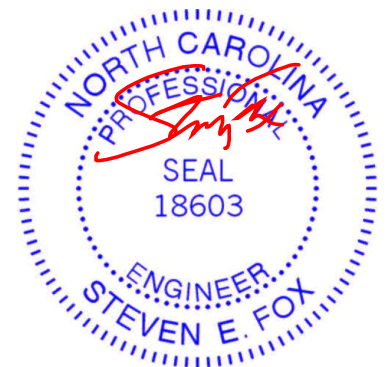
Plate Offsets (X,Y)--	[1:Edge,0-0-12], [4:0-2-4,Edge], [7:0-3-0,0-0-0], [9:0-2-4,Edge], [14:0-2-8,Edge], [15:0-1-8,Edge], [16:0-1-8,Edge], [20:0-1-8,0-0-12], [21:0-1-8,0-0-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.55	Vert(LL) -0.48 15-16 >519 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.57	Vert(CT) -0.66 15-16 >379 360	MT18HS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.88	Horz(CT) 0.10 13 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 118 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 5-6-13 oc purlins, except end verticals.
BOT CHORD 2x4 SP DSS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 19=0-3-8, 13=0-3-8
Max Grav 19=1135(LC 1), 13=1135(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-4051/0, 4-5=-4054/0, 5-6=-5985/0, 6-7=-5985/0, 7-8=-5985/0, 8-9=-4054/0, 9-11=-4051/0
BOT CHORD 18-19=0/2360, 16-18=0/5394, 15-16=0/5985, 14-15=0/5394, 13-14=0/2360
WEBS 2-19=-2565/0, 11-13=-2565/0, 2-18=0/1850, 11-14=0/1850, 5-18=-1456/0, 8-14=-1456/0, 5-16=-19/1060, 6-16=-345/2, 8-15=-19/1060, 7-15=-345/2

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) The Fabrication Tolerance at joint 17 = 11%
 - 5) This truss is designed in accordance with the 2015 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.



July 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job 29647A	Truss F2	Truss Type Floor	Qty 1	Ply 1	69 PRINCE PLACE - FLOOR	146973843
---------------	-------------	---------------------	----------	----------	-------------------------	-----------

84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:46 2021 Page 1
ID: NS3h4WSAr6NUQemYdajYWgyykej-wiNBvZ_f_A_3vt8CjMjeowjbfMFxjvlVAH8F0YyyXEB

0-1-8



0-1-8
Scale = 1:21.5

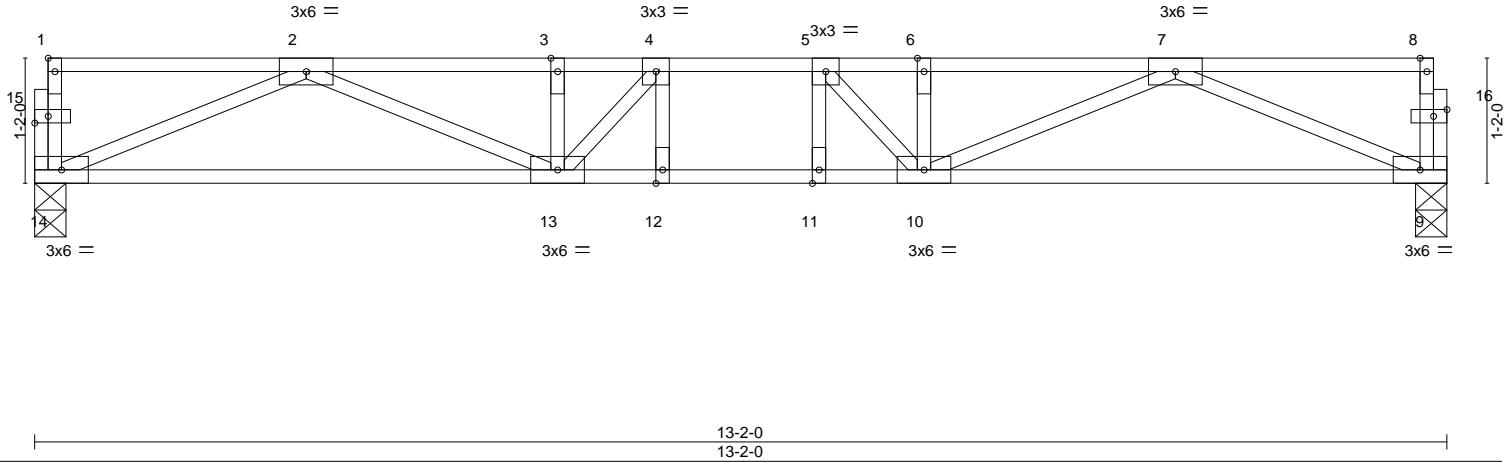


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [15:0-1-8,0-0-12], [16:0-1-8,0-0-12]

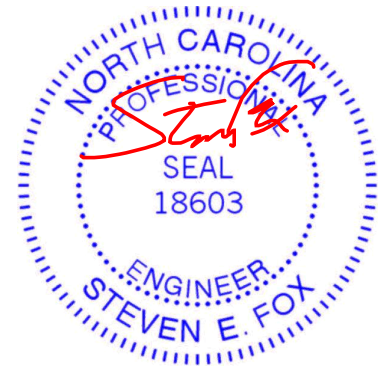
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.36	Vert(LL)	-0.11 11-12	>999	480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.66	Vert(CT)	-0.15 11-12	>999	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.39	Horz(CT)	0.03 9	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 68 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 14=0-3-8, 9=0-3-8
Max Grav 14=704(LC 1), 9=704(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2083/0, 3-4=-2083/0, 4-5=-2173/0, 5-6=-2083/0, 6-7=-2083/0
BOT CHORD 13-14=0/1370, 12-13=0/2173, 11-12=0/2173, 10-11=0/2173, 9-10=0/1370
WEBS 2-14=-1487/0, 7-9=-1487/0, 2-13=0/780, 7-10=0/780, 4-13=-363/123, 5-10=-363/123

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - This truss is designed in accordance with the 2015 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.



July 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job 29647A	Truss F3	Truss Type Floor	Qty 6	Ply 1	69 PRINCE PLACE - FLOOR Job Reference (optional)	146973844
---------------	-------------	---------------------	----------	----------	-----------------------------------------------------	-----------

84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:47 2021 Page 1
ID:NS3h4WSAr6NUQemYdajYWggykej-OuxZ6v?HIT6vX1jPH3EtL7Fk4mbwSMFeOxtOY_yyXEA

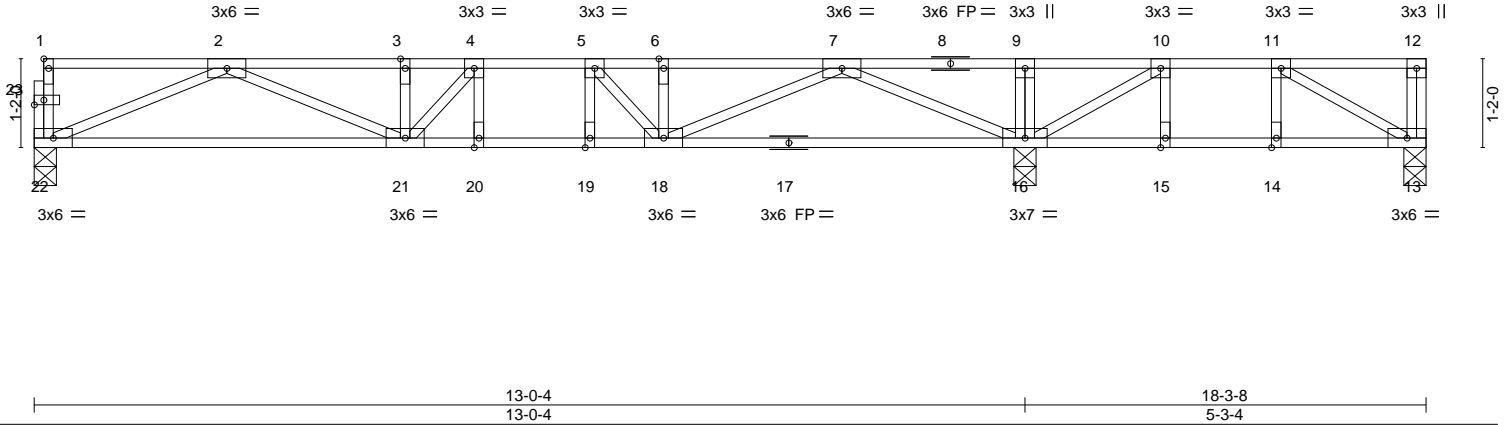


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [23:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.51	Vert(LL) -0.10	20	>999	480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.67	Vert(CT) -0.14	20	>999	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.03	13	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 94 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(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.

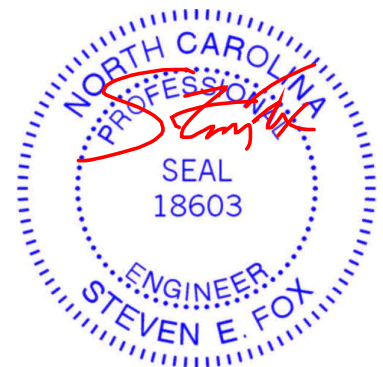
(size) 22=0-3-8, 16=0-3-8, 13=0-3-8
 Max Uplift 13=46(LC 3)
 Max Grav 22=659(LC 10), 16=1173(LC 1), 13=245(LC 4)

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

TOP CHORD 2-3=-1881/0, 3-4=-1881/0, 4-5=-1894/0, 5-6=-1726/0, 6-7=-1726/0, 7-9=0/680, 9-10=0/676, 10-11=-250/212
 BOT CHORD 21-22=0/1266, 20-21=0/1894, 19-20=0/1894, 18-19=0/1894, 16-18=0/924, 15-16=-212/250, 14-15=-212/250, 13-14=-212/250
 WEBS 2-22=-1373/0, 7-16=-1572/0, 2-21=0/673, 7-18=0/919, 4-21=-251/202, 5-18=-447/10, 10-16=-705/0, 11-13=-287/244

NOTES-

- Unbalanced floor live loads have been considered for this design.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 13.
- This truss is designed in accordance with the 2015 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.



July 13, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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 29647A	Truss F4	Truss Type Floor	Qty 10	Ply 1	69 PRINCE PLACE - FLOOR	146973845
84 Components (Dunn), Dunn, NC - 28334,					8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:47 2021 Page 1	
					ID: NS3h4WSAr6NUQemYdajYWgyykej-OuxZ6v?HIT6vX1jPH3EtL7FjmXOSM1eOxtoY_yyXEA	

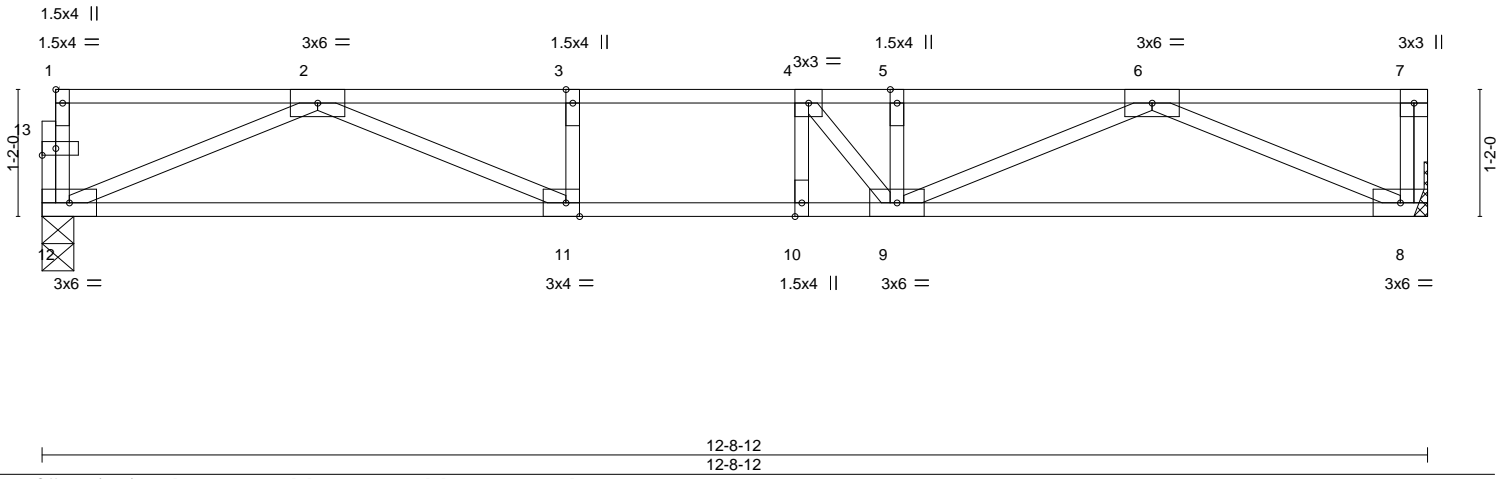
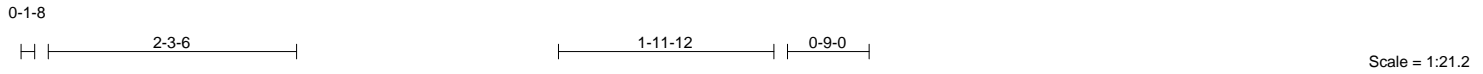
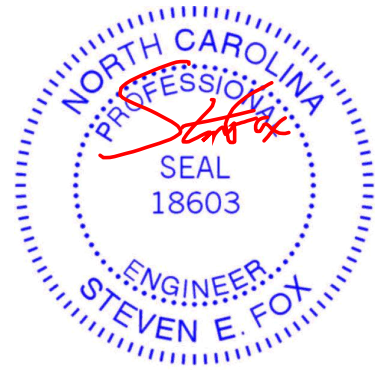


Plate Offsets (X,Y)--	[1:Edge,0-0-12], [11:0-1-8,Edge], [13:0-1-8,0-0-12]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.53	Vert(LL) -0.13 10	>999	480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.90	Vert(CT) -0.17 10	>885	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.39	Horz(CT) 0.03 8	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S				Weight: 63 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
REACTIONS. (size) 12=0-3-8, 8=Mechanical	
Max Grav 12=680(LC 1), 8=686(LC 1)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-2008/0, 3-4=-2008/0, 4-5=-1976/0, 5-6=-1976/0	
BOT CHORD 11-12=0/1312, 10-11=0/2008, 9-10=0/2008, 8-9=0/1318	
WEBS 2-12=-1423/0, 6-8=-1436/0, 2-11=0/813, 6-9=0/720, 4-9=-382/208	

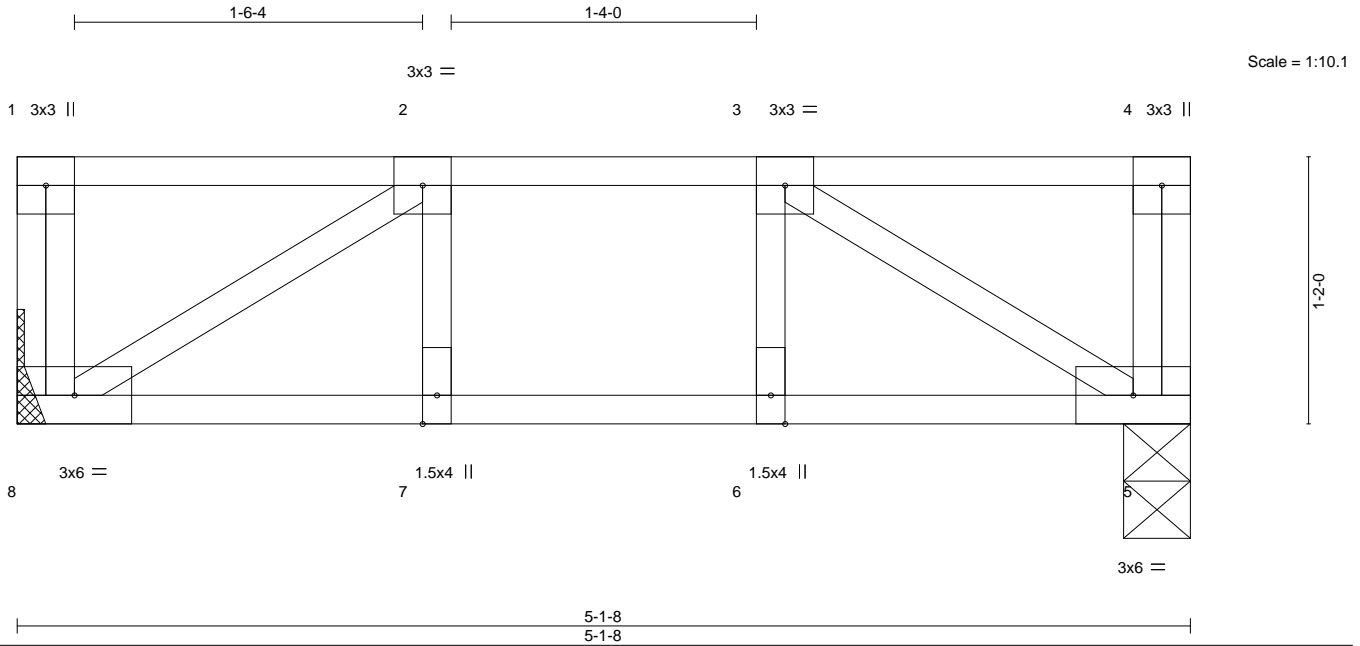
- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - Refer to girder(s) for truss to truss connections.
 - This truss is designed in accordance with the 2015 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.



July 13, 2021

Job 29647A	Truss F5	Truss Type Floor	Qty 1	Ply 1	69 PRINCE PLACE - FLOOR Job Reference (optional)	I46973846
---------------	-------------	---------------------	----------	----------	-----------------------------------------------------	-----------

84 Components (Dunn), Dunn, NC - 28334, 8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:48 2021 Page 1
ID: NS3h4WSAr6NUQemYdajYWgykej-s5VxKF?vWnEm9Blbqnl6tLo_yA3BBuzndbdL4RyyXE9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.16	Vert(LL) -0.01 7 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.09	Vert(CT) -0.01 7 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 29 lb	FT = 20%F, 11%E

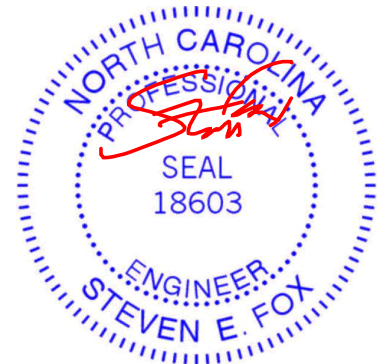
LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=0-3-8
Max Grav 8=268(LC 1), 5=268(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-310/0
BOT CHORD 7-8=0/310, 6-7=0/310, 5-6=0/310
WEBS 2-8=-363/0, 3-5=-363/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) This truss is designed in accordance with the 2015 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.



July 13, 2021

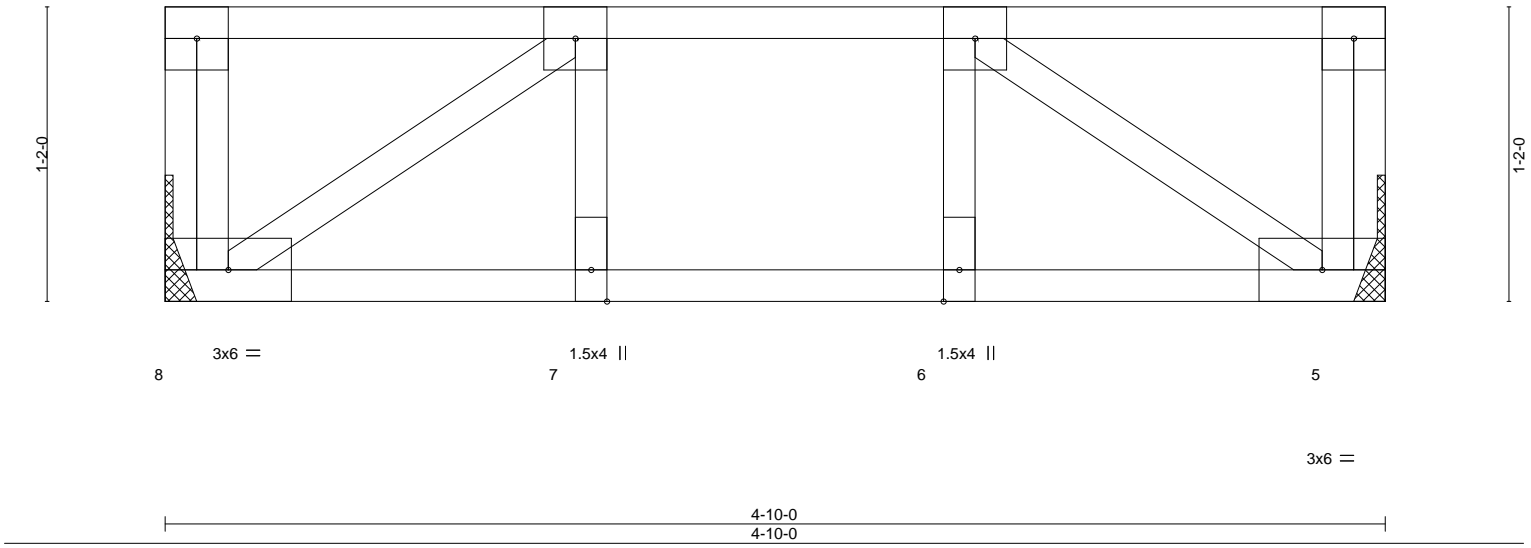
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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 29647A	Truss F6	Truss Type Floor	Qty 1	Ply 1	69 PRINCE PLACE - FLOOR Job Reference (optional)	146973847
---------------	-------------	---------------------	----------	----------	-----------------------------------------------------	-----------

84 Components (Dunn), Dunn, NC - 28334, 8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:49 2021 Page 1
ID: NS3h4WSAr6NUQemYdajYWgyykej-KH2JXb0XH5NdmLtnOUGLQYL9FaOmwLNXsFMvctyyXE8



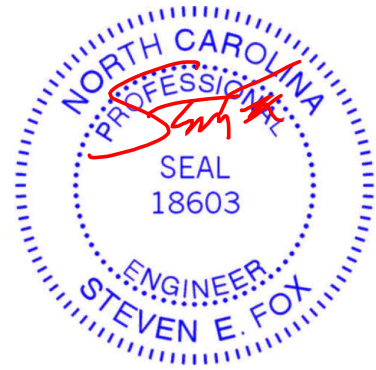
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.15	Vert(LL) -0.01 7 >999 480	MT20 197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.14	Vert(CT) -0.01 7 >999 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00 5 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 27 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-10-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 8=Mechanical, 5=Mechanical
Max Grav 8=252(LC 1), 5=252(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-270/0
BOT CHORD 7-8=0/270, 6-7=0/270, 5-6=0/270
WEBS 2-8=-325/0, 3-5=-325/0

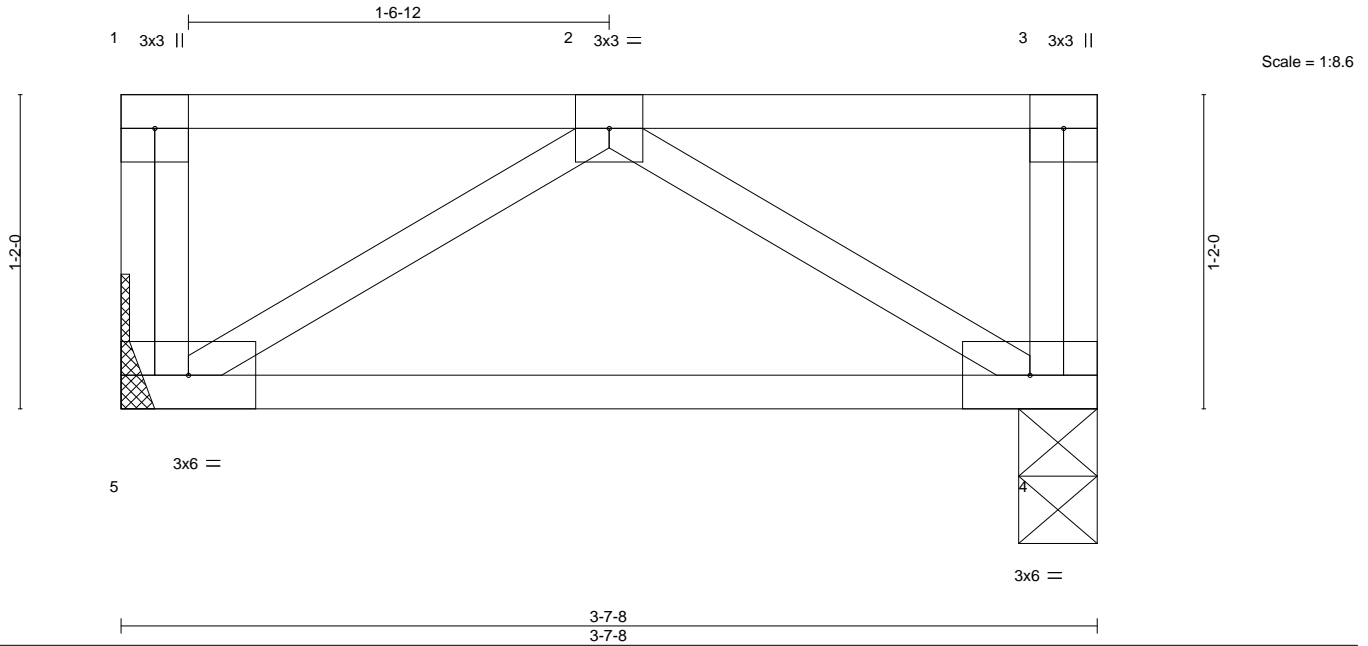
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) This truss is designed in accordance with the 2015 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.



July 13, 2021

Job 29647A	Truss F7G	Truss Type Floor Girder	Qty 1	Ply 1	69 PRINCE PLACE - FLOOR	I46973848
84 Components (Dunn), Dunn, NC - 28334,					Job Reference (optional)	

8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:49 2021 Page 1
ID: NS3h4WSAr6NUQemYdajYWgyykej-KH2JXb0XH5NdmLtnOUGLQYL9ZaNtwLixsFMvctyyXE8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.19	Vert(LL) 0.00 5 **** 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.08	Vert(CT) -0.02 4-5 >999 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 22 lb	FT = 20%F, 11%E

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=Mechanical, 4=0-3-8
Max Grav 5=262(LC 1), 4=262(LC 1)

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

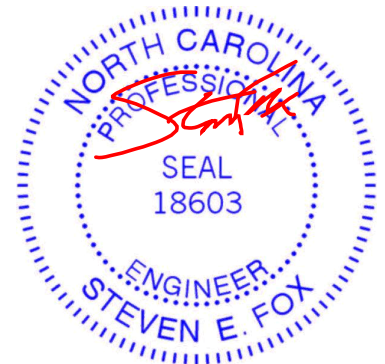
BOT CHORD 4-5=0/291
WEBS 2-5=-342/0, 2-4=-342/0

NOTES-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2015 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 152 lb down at 1-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-5=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 2=-152(F)



July 13, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

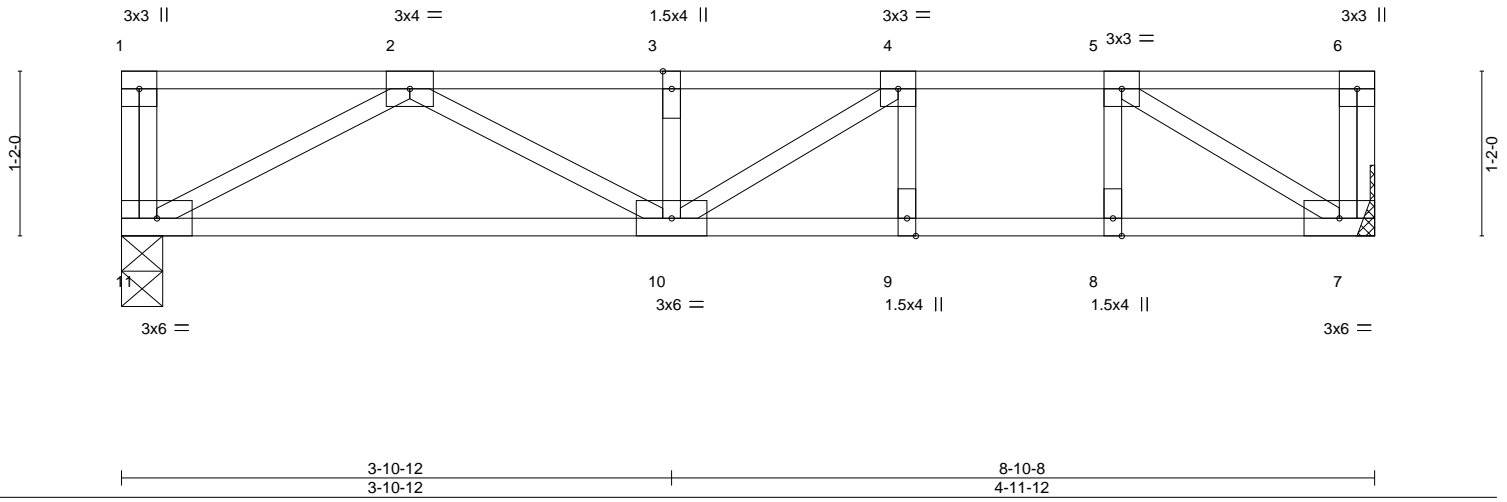
Job 29647A	Truss F8G	Truss Type Floor Girder	Qty 1	Ply 1	69 PRINCE PLACE - FLOOR Job Reference (optional)	I46973849
---------------	--------------	----------------------------	----------	----------	-----------------------------------------------------	-----------

84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:50 2021 Page 1
ID: NS3h4WSAr6NUQemYdajYWgykej-oTchlx192OVUOVR_yCoaymtAuza1ff44v6S9JyyXE7



Scale = 1:16.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.79	Vert(LL) -0.10 9-10 >999 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.77	Vert(CT) -0.14 9-10 >746 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.27	Horz(CT) 0.01 7 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 47 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(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) 11=0-3-8, 7=Mechanical
 Max Grav 11=565(LC 1), 7=545(LC 1)

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

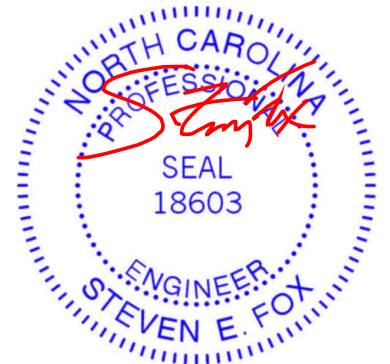
TOP CHORD 2-3=-1357/0, 3-4=-1357/0, 4-5=-951/0
 BOT CHORD 10-11=0/870, 9-10=0/951, 8-9=0/951, 7-8=0/951
 WEBS 3-10=-421/0, 2-11=-990/0, 2-10=0/559, 4-10=0/526, 5-7=-1111/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2015 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 242 lb down at 3-10-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 7-11=-10, 1-6=-100
 Concentrated Loads (lb)
 Vert: 3=-162(B)



July 13, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

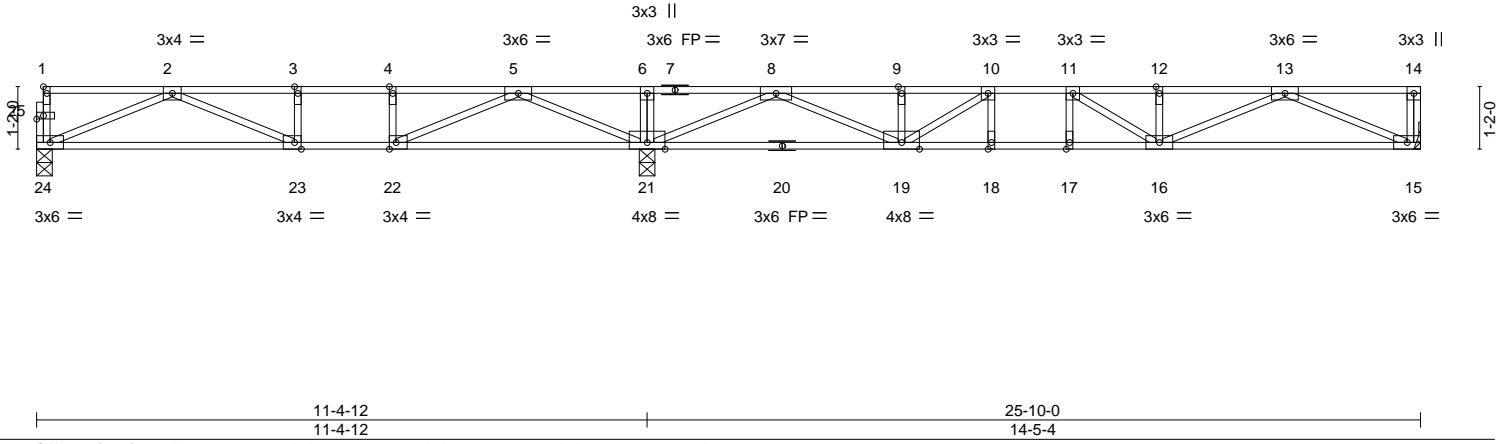


818 Soundside Road
 Edenton, NC 27932

Job 29647A	Truss F9	Truss Type Floor	Qty 7	Ply 1	69 PRINCE PLACE - FLOOR	I46973850
---------------	-------------	---------------------	----------	----------	-------------------------	-----------

84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:51 2021 Page 1
ID: NS3h4WSAr6NUQemYdajYWgyykej-GgA4yH2noidL0e0AWvJpVzQLaNViO7sEJZr0hmyyXE6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.80	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.84	Vert(LL) -0.16 23-24 >864 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.59	Vert(CT) -0.24 23-24 >559 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 15 n/a n/a		
	Code IRC2015/TPI2014			Weight: 127 lb	FT = 20%F, 11%E

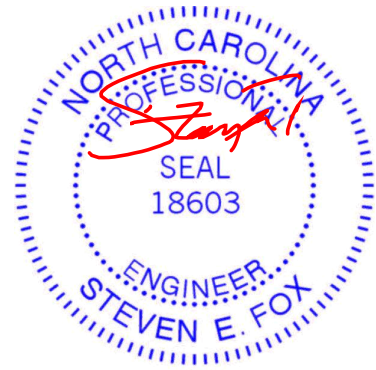
LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)

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) 24=0-3-8, 21=0-3-8, 15=Mechanical
Max Grav 24=547(LC 3), 21=1642(LC 1), 15=713(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1311/72, 3-4=-1311/72, 4-5=-1311/72, 5-6=0/1469, 6-8=0/1469, 8-9=-1742/0, 9-10=-1742/0, 10-11=-2167/0, 11-12=-2105/0, 12-13=-2105/0
BOT CHORD 23-24=0/1005, 22-23=-72/1311, 21-22=-550/592, 19-21=-197/688, 18-19=0/2167, 17-18=0/2167, 16-17=0/2167, 15-16=0/1375
WEBS 6-21=-268/0, 2-24=-1089/0, 5-21=-1499/0, 2-23=-154/335, 5-22=0/1014, 4-22=-331/0, 8-21=-1871/0, 13-15=-1499/0, 8-19=0/1239, 13-16=0/798, 12-16=-253/0, 10-19=-723/0, 11-16=-250/249

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) This truss is designed in accordance with the 2015 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.



July 13, 2021

Job 29647A	Truss F11	Truss Type Floor	Qty 2	Ply 1	69 PRINCE PLACE - FLOOR	I46973851
---------------	--------------	---------------------	----------	----------	-------------------------	-----------

84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:44 2021 Page 1
ID:NS3h4WSAr6NUQemYdajYWgyykej-zKFQUuyOSYkLga_qbxbAjVdEdZbpG1GCizf8xgyXED

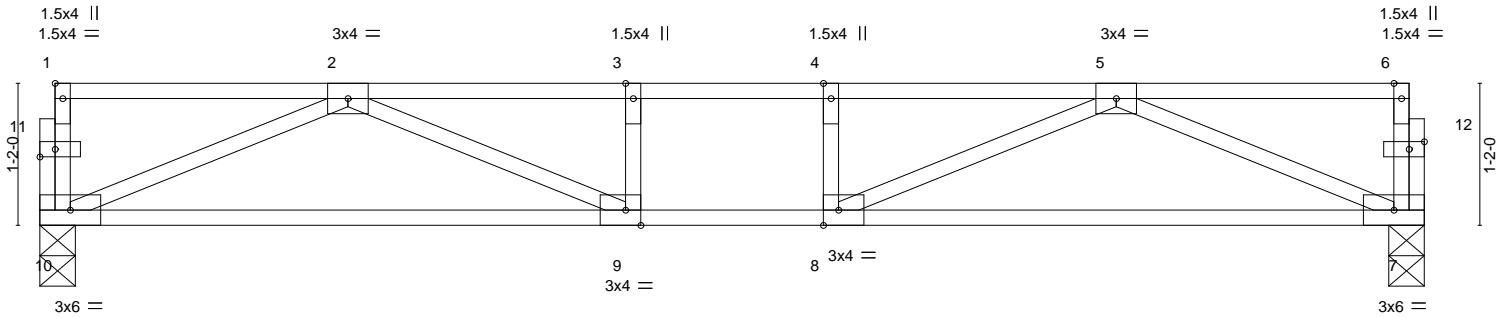
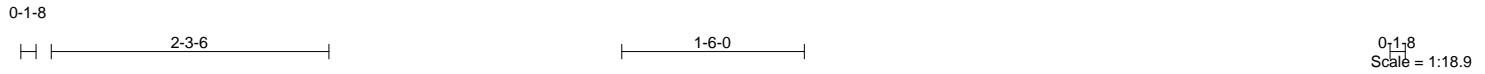


Plate Offsets (X,Y)--		[1:Edge,0-0-12], [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-0-12], [12:0-1-8,0-0-12]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00		TC 0.39	Vert(LL) -0.11	7-8	>999	480		MT20	197/144
TCDL 10.0	Lumber DOL 1.00		BC 0.57	Vert(CT) -0.17	9-10	>805	360			
BCLL 0.0	Rep Stress Incr YES		WB 0.33	Horz(CT) 0.02	7	n/a	n/a			
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						Weight: 56 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(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) 10=0-3-8, 7=0-3-8
Max Grav 10=606(LC 1), 7=606(LC 1)

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

TOP CHORD 2-3=-1635/0, 3-4=-1635/0, 4-5=-1635/0
BOT CHORD 9-10=0/1141, 8-9=0/1635, 7-8=0/1141
WEBS 2-10=-1237/0, 5-7=-1237/0, 2-9=0/622, 5-8=0/622

NOTES-

- Unbalanced floor live loads have been considered for this design.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- This truss is designed in accordance with the 2015 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.



July 13, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

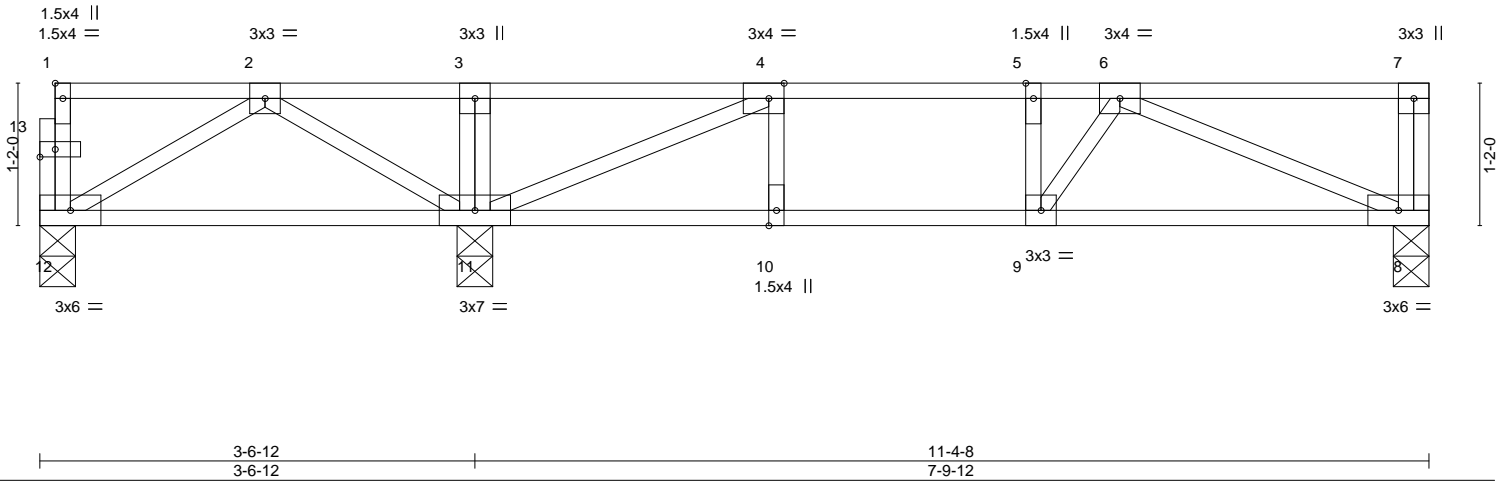
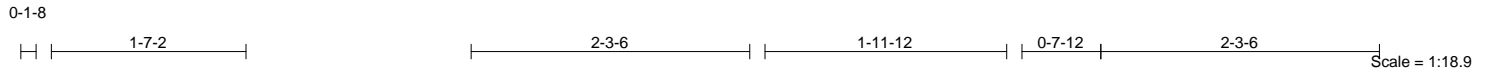


818 Soundside Road
Edenton, NC 27932

Job 29647A	Truss F12	Truss Type Floor	Qty 2	Ply 1	69 PRINCE PLACE - FLOOR	146973852
---------------	--------------	---------------------	----------	----------	-------------------------	-----------

84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:45 2021 Page 1
ID:NS3h4WSAr6NUQemYdajYWgyykej-SWpoiDz0DssCHjZ09eCPGiAQ8y?5_VMLxdOhT6yyXEC



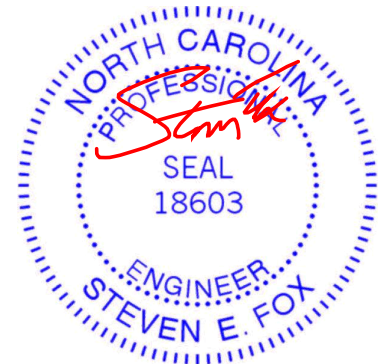
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	2-0-0	TC	0.34	Vert(LL)	-0.04	8-9	>999	480	MT20	197/144	
TCDL	10.0	Lumber DOL	1.00	BC	0.31	Vert(CT)	-0.06	8-9	>999	360	Weight: 59 lb FT = 20%F, 11%E		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	8	n/a	n/a			
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S									

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

REACTIONS. (size) 12=0-3-8, 8=0-3-8, 11=0-3-8
Max Grav 12=240(LC 8), 8=416(LC 8), 11=662(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-713/0, 5-6=-713/0
BOT CHORD 11-12=0/270, 10-11=0/713, 9-10=0/713, 8-9=0/690
WEBS 2-12=-312/0, 2-11=-270/0, 4-11=-791/0, 6-8=-752/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - This truss is designed in accordance with the 2015 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.



July 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job 29647A	Truss KW1	Truss Type Floor Supported Gable	Qty 1	Ply 1	69 PRINCE PLACE - FLOOR Job Reference (optional)	146973853
---------------	--------------	-------------------------------------	----------	----------	-----------------------------------------------------	-----------

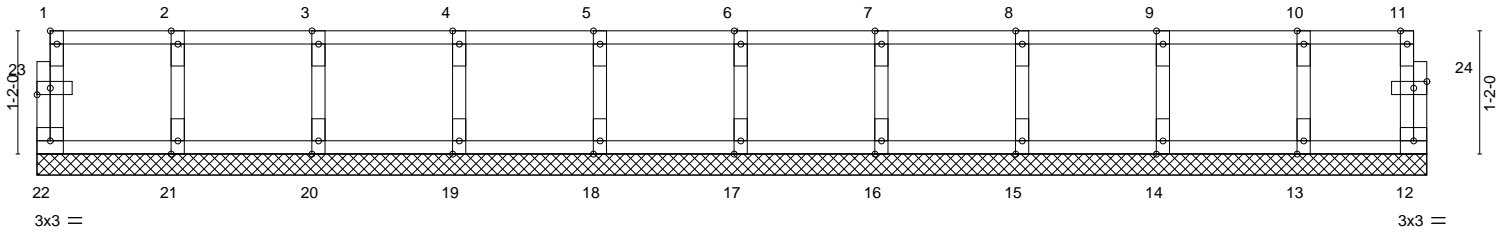
84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:52 2021 Page 1
ID: NS3h4WSAr6NUQemYdajYWgyykej-kskSAd2PZ0lCdobM3dq22BzgXnSQ7jrNYDbZDCyyXE5

0.1-8

0.1-8

Scale = 1:21.8



13-2-0
13-2-0

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [23:0-1-8,0-0-12], [24:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
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: 56 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(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.

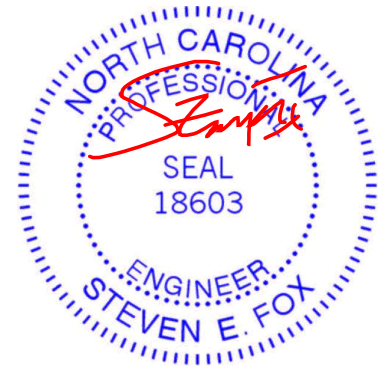
All bearings 13-2-0.

(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-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 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 2015 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.



July 13, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



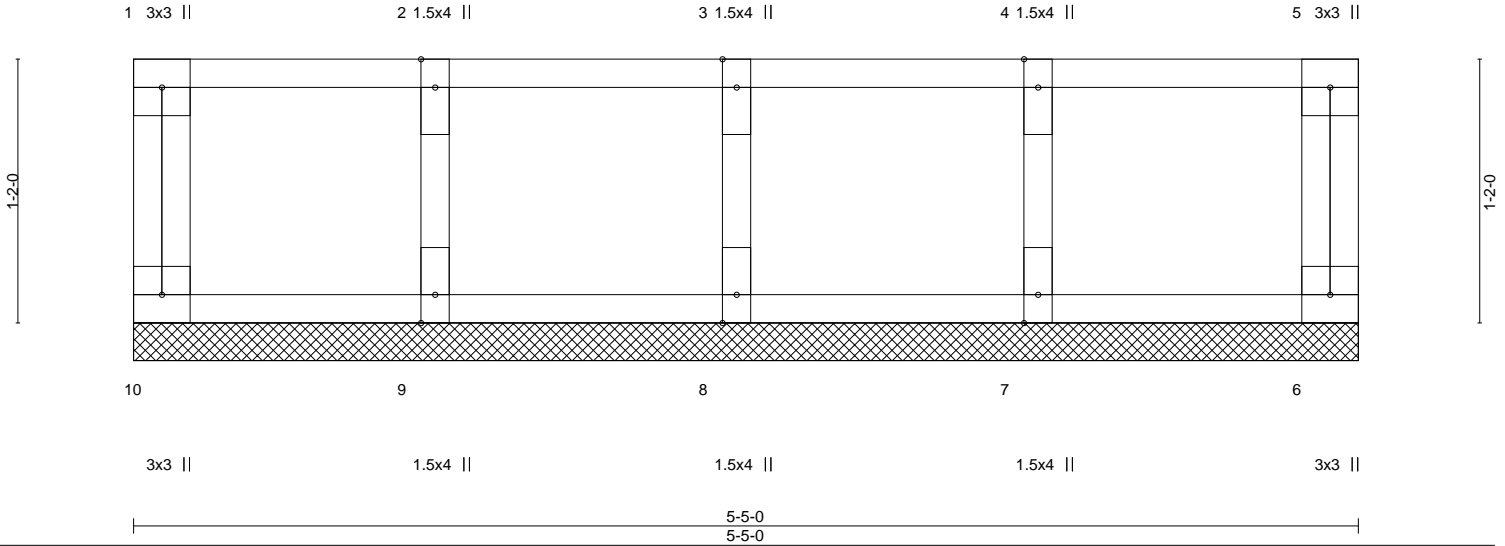
818 Soundside Road
Edenton, NC 27932

Job 29647A	Truss KW2	Truss Type Floor Supported Gable	Qty 1	Ply 1	69 PRINCE PLACE - FLOOR Job Reference (optional)	I46973854
---------------	--------------	-------------------------------------	----------	----------	-----------------------------------------------------	-----------

84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:52 2021 Page 1
ID: NS3h4WSAr6NUQemYdajYWgyykej-kskSAd2PZ0lCdobM3dq22BzqZnSN7jsNYDbZDCyyXE5

Scale = 1:10.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 26 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS.

All bearings 5-5-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

FORCES.

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

NOTES-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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 2015 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.



July 13, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



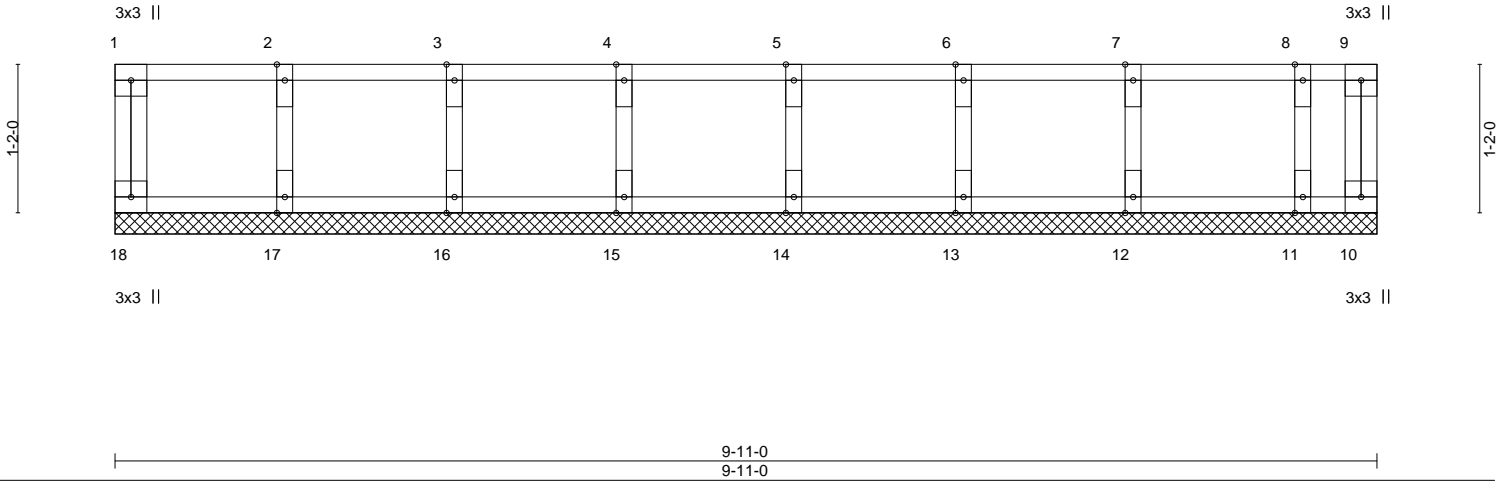
818 Soundside Road
Edenton, NC 27932

Job 29647A	Truss KW3	Truss Type Floor Supported Gable	Qty 1	Ply 1	69 PRINCE PLACE - FLOOR Job Reference (optional)	I46973855
---------------	--------------	-------------------------------------	----------	----------	-----------------------------------------------------	-----------

84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:53 2021 Page 1
ID: NS3h4WSAr6NUQemYdajYWgyykej-D2lqNz32KJr3FyAZdKLHaOVrFBovsA4WntK6leyyXE4

Scale = 1:18.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 5.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 44 lb	FT = 20%F, 11%E

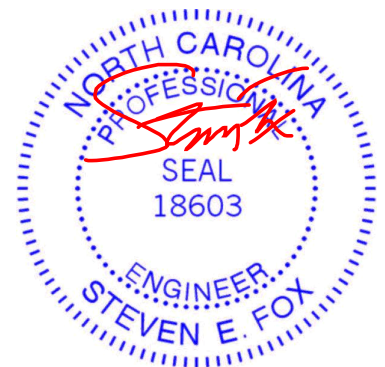
LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 9-11-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

- NOTES-**
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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 2015 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.



July 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



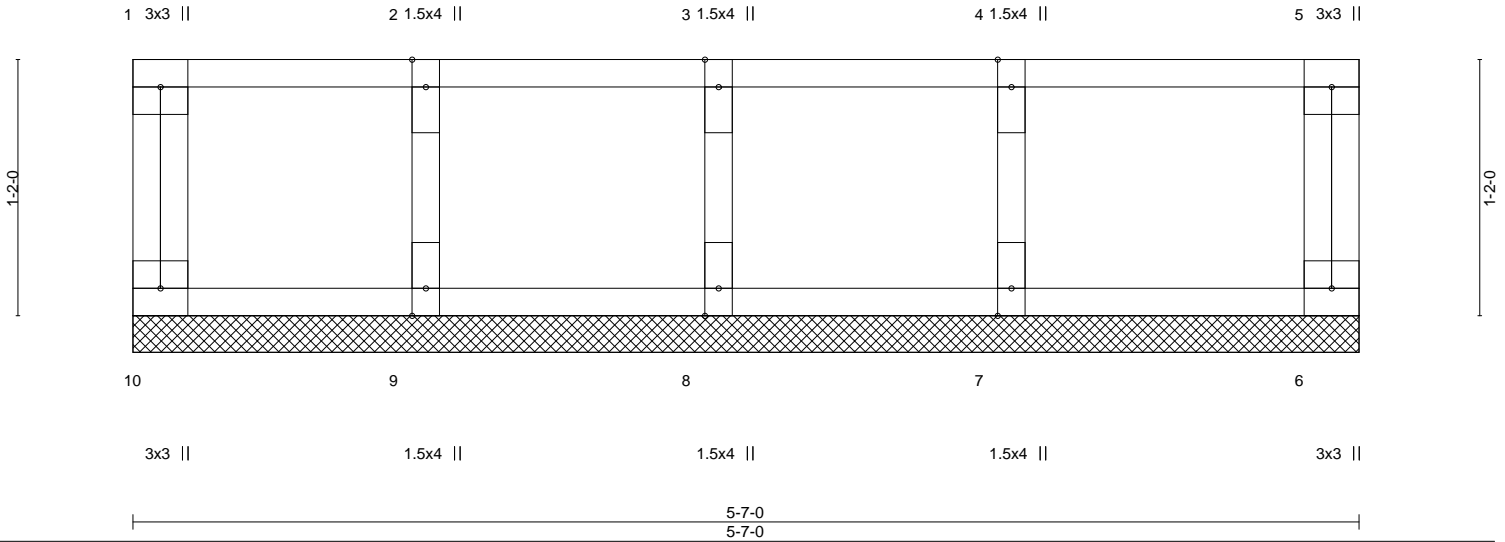
818 Soundside Road
Edenton, NC 27932

Job 29647A	Truss KW4	Truss Type Floor Supported Gable	Qty 1	Ply 1	69 PRINCE PLACE - FLOOR Job Reference (optional)	I46973856
---------------	--------------	-------------------------------------	----------	----------	-----------------------------------------------------	-----------

84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:53 2021 Page 1
ID: NS3h4WSAr6NUQemYdajYWgyykej-D2lqNz32KJi3FyAZdKLHaOVr9BoUsA3WntK6leyyXE4

Scale = 1:10.5



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 0.09	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	6	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-R					Weight: 26 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 5-7-0.

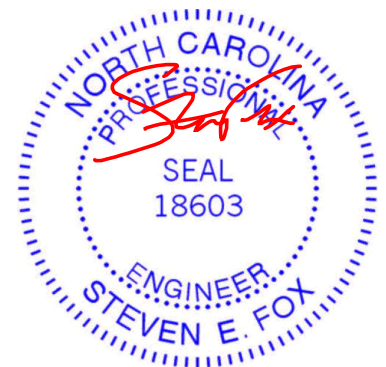
(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

FORCES.

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

NOTES-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 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 2015 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.



July 13, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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

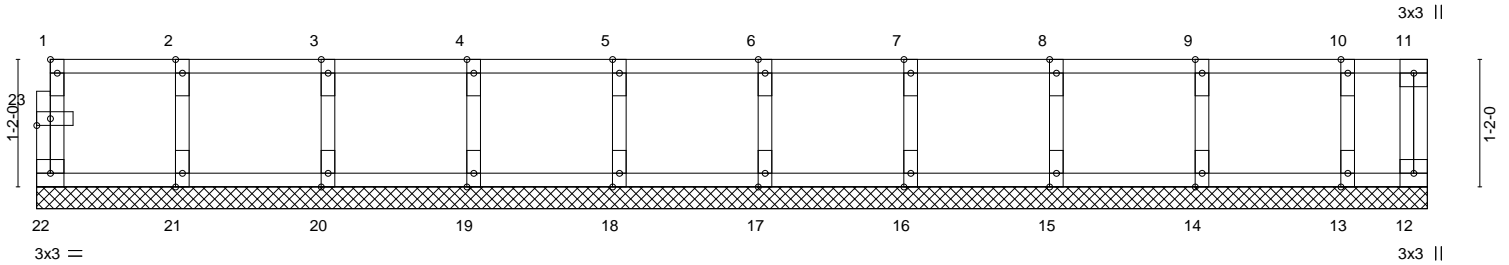
Job 29647A	Truss KW5	Truss Type Floor Supported Gable	Qty 1	Ply 1	69 PRINCE PLACE - FLOOR Job Reference (optional)	146973857
---------------	--------------	-------------------------------------	----------	----------	-----------------------------------------------------	-----------

84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:54 2021 Page 1
ID: NS3h4WSAr6NUQemYdajYWgyykej-hFsCaI4g5d?wt6lIB1sW7c20?b8mbdKg?X4gl4yyXE3

0.118

Scale = 1:21.1



12-8-12
12-8-12

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [23:0-1-8,0-0-12]

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 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	12	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R					Weight: 55 lb	FT = 20%F, 11%E

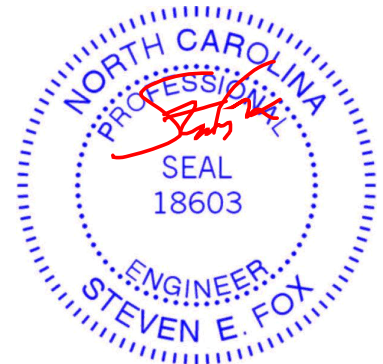
LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 12-8-12.
(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-**
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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 2015 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.



July 13, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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

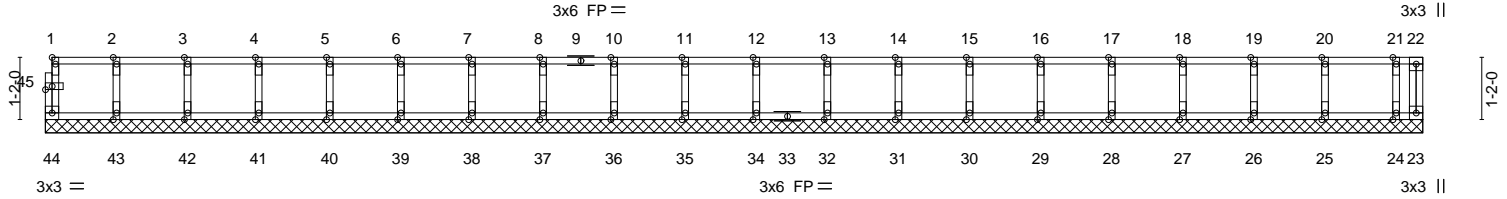
Job 29647A	Truss KW6	Truss Type Floor Supported Gable	Qty 1	Ply 1	69 PRINCE PLACE - FLOOR Job Reference (optional)	146973858
---------------	--------------	-------------------------------------	----------	----------	-----------------------------------------------------	-----------

84 Components (Dunn), Dunn, NC - 28334,

8.510 s Jun 18 2021 MiTek Industries, Inc. Tue Jul 13 08:51:55 2021 Page 1
ID:NS3h4WSAr6NUQemYdajYWgykej-9RQaoe5lsx7nUGKxllNlfpabl_U?K4apEBpDqXyyXE2

0-1-8

Scale = 1:43.2



25-10-0
25-10-0

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [45:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	23	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R					Weight: 108 lb	FT = 20%F, 11%E

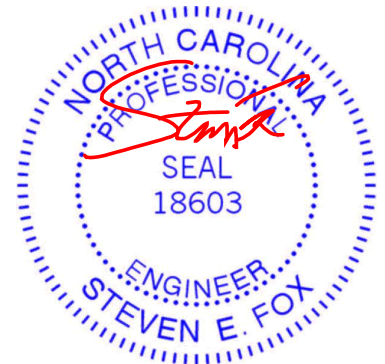
LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 25-10-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 44, 23, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 32, 31, 30, 29, 28, 27, 26, 25, 24

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

- NOTES-**
- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 2) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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 2015 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.



July 13, 2021

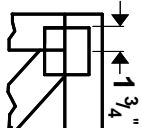
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



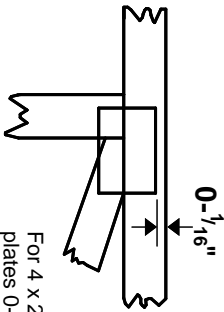
818 Soundside Road
Edenton, NC 27932

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

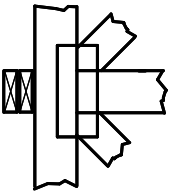
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



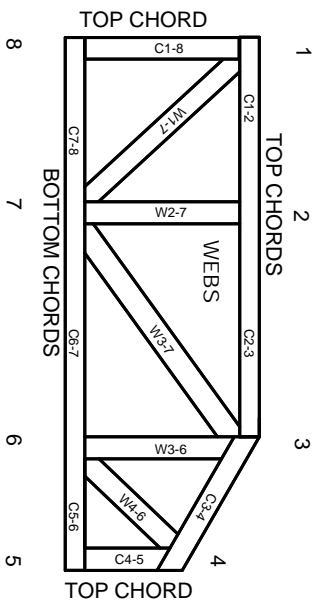
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.

© 2012 MITteK® All Rights Reserved



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. Reviewing 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.