

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 28201-28201A
7 PRINCE PLACE - FLOOR

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

Pages or sheets covered by this seal: I48113738 thru I48113758

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

North Carolina COA: C-0844



September 29, 2021

Johnson, Andrew

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

Job 28201-28201A	Truss F1	Truss Type Floor	Qty 3	Ply 1	7 PRINCE PLACE - FLOOR Job Reference (optional)	148113738
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:12 2021 Page 1
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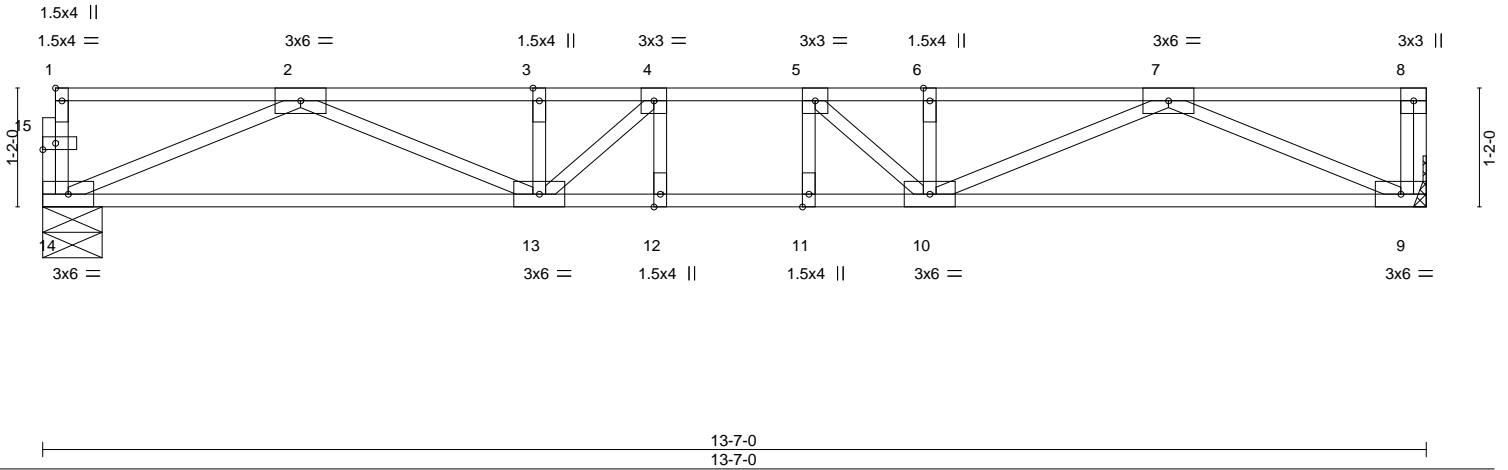


Plate Offsets (X,Y)--	[1:Edge,0-0-12], [15:0-1-8,0-0-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.38	Vert(LL) -0.12 11-12 >999 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.70	Vert(CT) -0.17 11-12 >933 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.41	Horz(CT) 0.04 9 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 70 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=0-7-0, 9=Mechanical
Max Grav 14=727(LC 1), 9=733(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2187/0, 3-4=-2187/0, 4-5=-2318/0, 5-6=-2186/0, 6-7=-2186/0
BOT CHORD 13-14=0/1422, 12-13=0/2318, 11-12=0/2318, 10-11=0/2318, 9-10=0/1424
WEBS 2-14=-1544/0, 7-9=-1552/0, 2-13=0/837, 7-10=0/833, 4-13=-401/99, 5-10=-401/98

- 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) 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.



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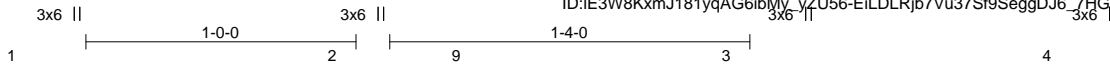
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 28201-28201A	Truss F1G	Truss Type FLOOR GIRDER	Qty 1	Ply 1	7 PRINCE PLACE - FLOOR	148113739
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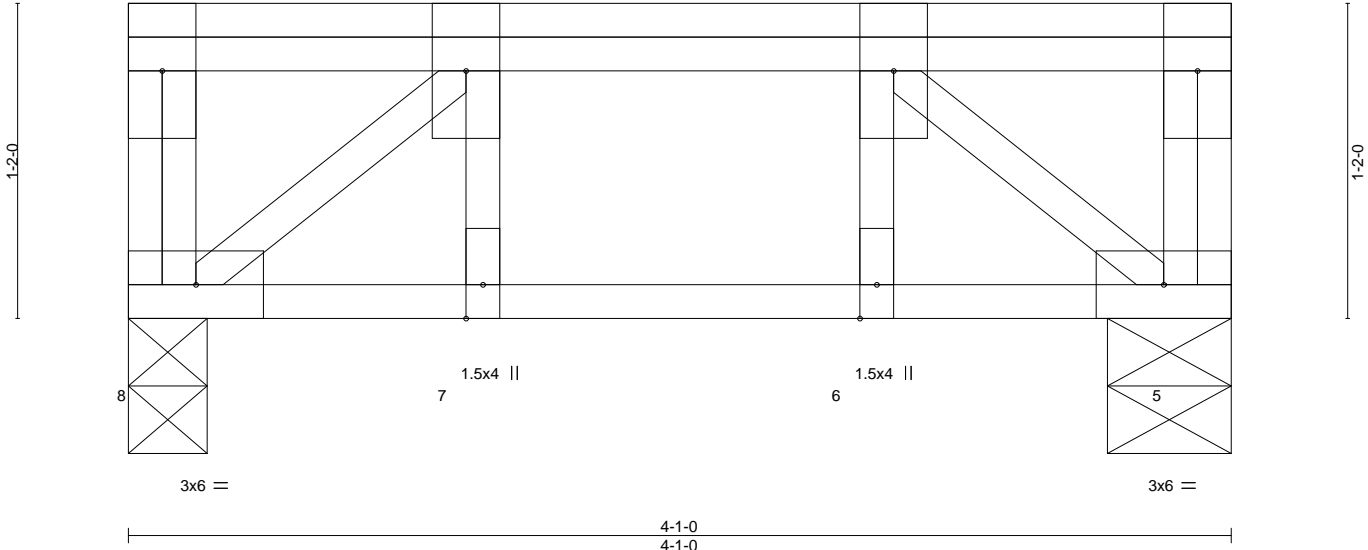
84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:20 2021 Page 1



Scale = 1:8.5



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 0.65	Vert(LL)	-0.01	7	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.43	Vert(CT)	-0.02	7	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.28	Horz(CT)	0.01	5	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S					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 4-1-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 5=0-5-8
 Max Grav 8=830(LC 1), 5=1004(LC 4)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-935/0
 BOT CHORD 7-8=0/935, 6-7=0/935, 5-6=0/935
 WEBS 2-8=-1212/0, 3-5=-1212/0

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) 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 304 lb down at 1-9-4, and 825 lb down at 1-9-4, and 371 lb down at 3-11-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 5) 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: 5-8=-10, 1-4=-100
 Concentrated Loads (lb)
 Vert: 4=-323(F) 9=-1086(F=-283, B=-803)



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 Edenton, NC 27932

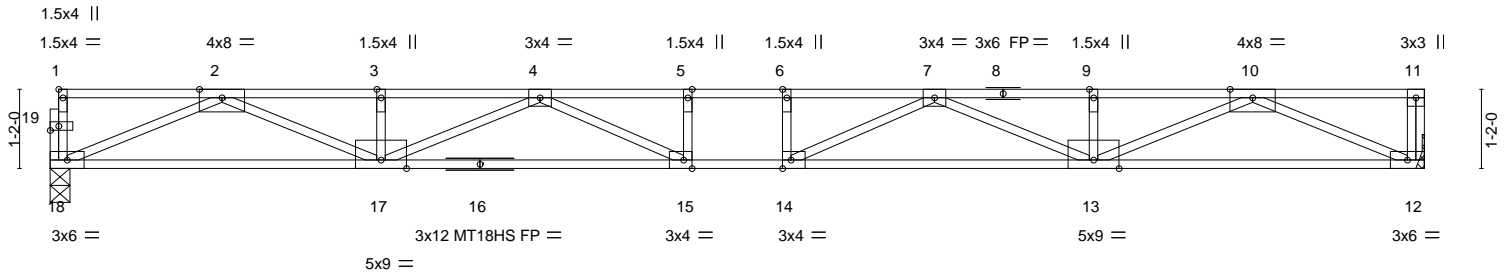
Job 28201-28201A	Truss F2	Truss Type Floor	Qty 8	Ply 1	7 PRINCE PLACE - FLOOR Job Reference (optional)	148113740
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:21 2021 Page 1
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20-3-0
20-3-0

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [14:0-1-8,Edge], [15:0-1-8,Edge], [19:0-1-8,0-0-12]

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 0.61	Vert(LL)	-0.46 14-15	>523	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.51	Vert(CT)	-0.63 14-15	>381	360	MT18HS	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.09 12	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 99 lb	FT = 20%F, 11%E

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

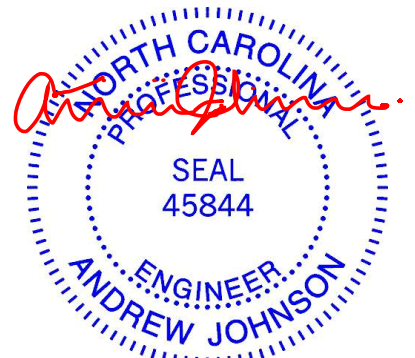
(size) 18=0-3-8, 12=Mechanical
Max Grav 18=1094(LC 1), 12=1100(LC 1)

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

TOP CHORD 2-3=-3864/0, 3-4=-3864/0, 4-5=-5257/0, 5-6=-5257/0, 6-7=-5257/0, 7-9=-3863/0, 9-10=-3863/0
BOT CHORD 17-18=0/2263, 15-17=0/4846, 14-15=0/5257, 13-14=0/4847, 12-13=0/2266
WEBS 2-18=-2460/0, 10-12=-2469/0, 2-17=0/1752, 10-13=0/1749, 4-17=-1075/0, 7-13=-1076/0, 4-15=-77/816, 7-14=-77/816

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) 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.



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

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

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



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	7 PRINCE PLACE - FLOOR	148113741
28201-28201A	F2G	Floor Girder	1	1	Job Reference (optional)	

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

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Scale = 1:22.6

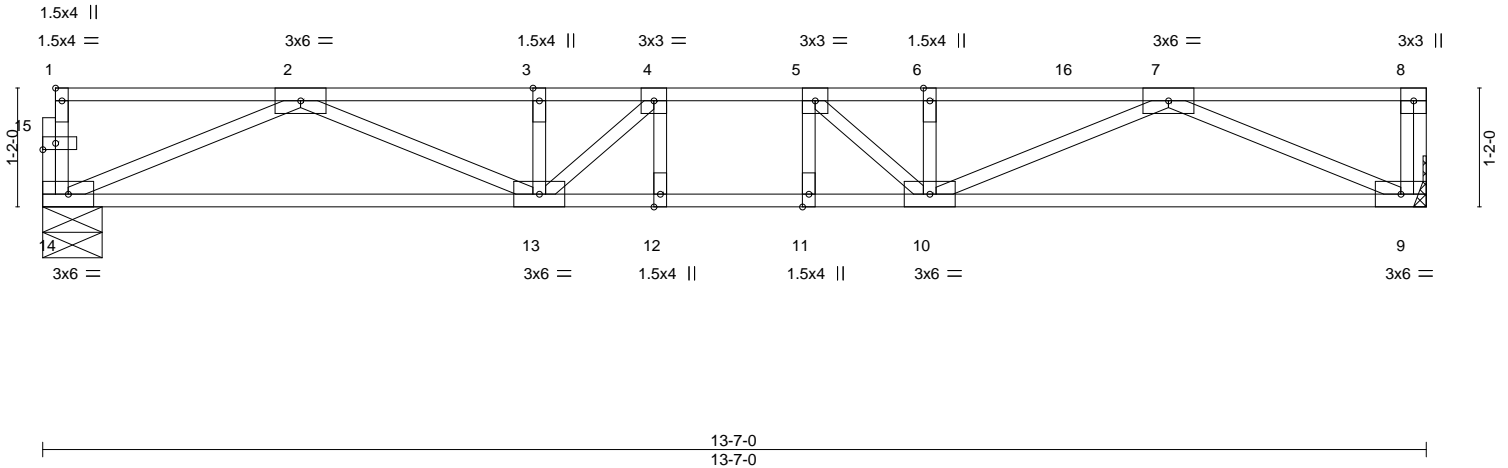


Plate Offsets (X,Y)--	[1:Edge,0-0-12], [15:0-1-8,0-0-12]				
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.92	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.92	Vert(LL) -0.14 11 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.49	Vert(CT) -0.19 11 >824 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.04 9 n/a n/a		
	Code IRC2015/TPI2014			Weight: 70 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 5-5-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-7-0, 9=Mechanical
Max Grav 14=765(LC 1), 9=847(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2356/0, 3-4=-2356/0, 4-5=-2558/0, 5-6=-2532/0, 6-7=-2532/0
BOT CHORD 13-14=0/1510, 12-13=0/2558, 11-12=0/2558, 10-11=0/2558, 9-10=0/1710
WEBS 2-14=-1639/0, 7-9=-1863/0, 2-13=0/926, 7-10=0/900, 6-10=-325/0, 4-13=-496/0

- 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) 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.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 232 lb down at 10-1-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) 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: 9-14=-10, 1-8=-100
Concentrated Loads (lb)
Vert: 16=-152(F)



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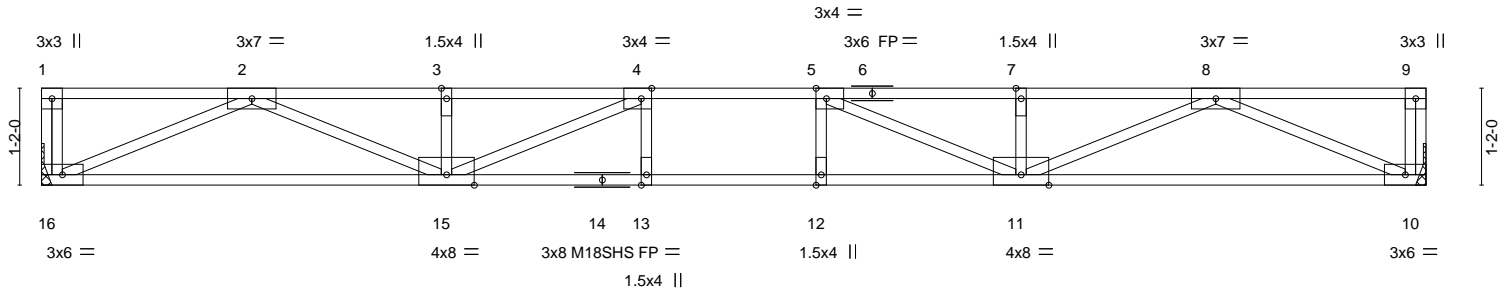
Job 28201-28201A	Truss F3	Truss Type Floor	Qty 1	Ply 1	7 PRINCE PLACE - FLOOR	148113742
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:22 2021 Page 1
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Scale = 1:27.7



16-8-0
16-8-0

Plate Offsets (X,Y)--	[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 0.64	Vert(LL) -0.25 13-15 >785 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.85	Vert(CT) -0.35 12-13 >568 360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.06 10 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 82 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) 16=Mechanical, 10=Mechanical
Max Grav 16=903(LC 1), 10=903(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2970/0, 3-4=-2970/0, 4-5=-3522/0, 5-7=-2970/0, 7-8=-2970/0
BOT CHORD 15-16=0/1810, 13-15=0/3522, 12-13=0/3522, 11-12=0/3522, 10-11=0/1810
WEBS 2-16=-1972/0, 8-10=-1972/0, 2-15=0/1270, 3-15=-272/8, 8-11=0/1270, 7-11=-272/8, 4-15=-870/0, 5-11=-870/0

- 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) All plates are MT20 plates unless otherwise indicated.
 - 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.



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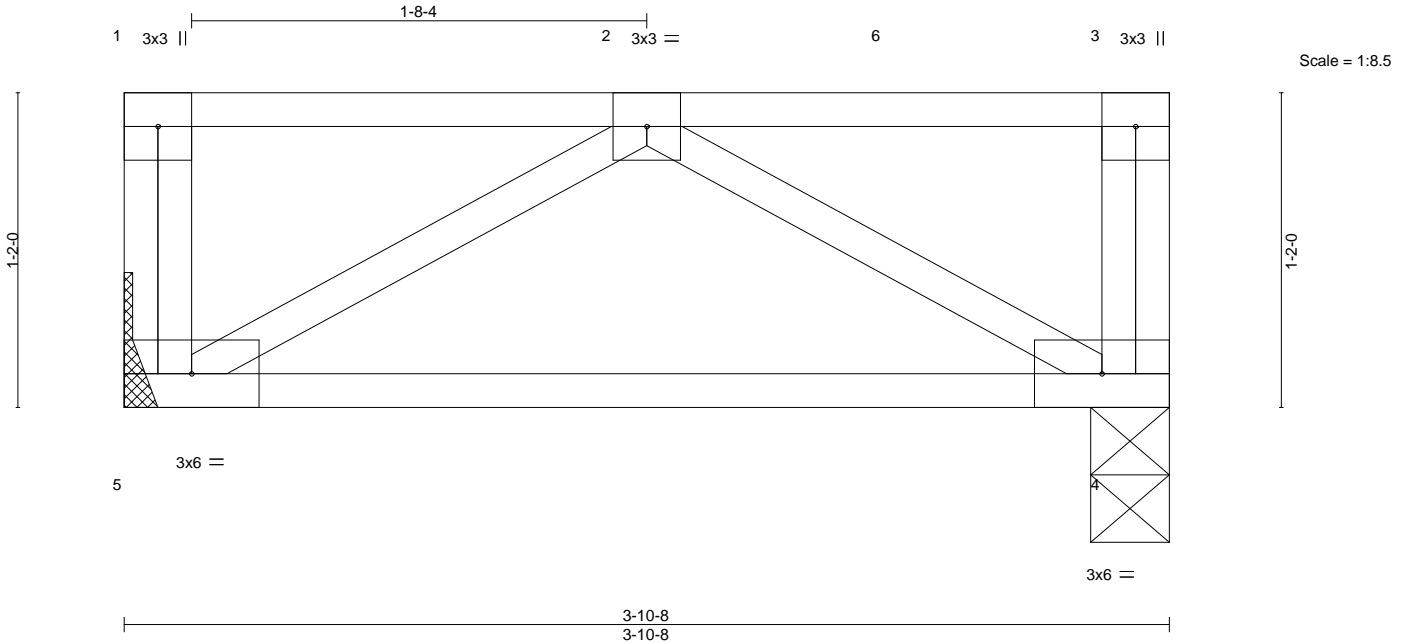
Job 28201-28201A	Truss F3G	Truss Type Floor Girder	Qty 1	Ply 1	7 PRINCE PLACE - FLOOR	I48113743
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:23 2021 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 0.38	Vert(LL)	0.00	5 ****	480	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.21	Vert(CT)	-0.03	4-5 >999	360		
BCLL 0.0	Lumber DOL 1.00	WB 0.08	Horz(CT)	0.00	4 n/a	n/a		
BCDL 5.0	Rep Stress Incr NO	Matrix-P					Weight: 23 lb	FT = 20%F, 11%E
	Code IRC2015/TPI2014							

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 3-10-8 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=252(LC 1), 4=295(LC 1)

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

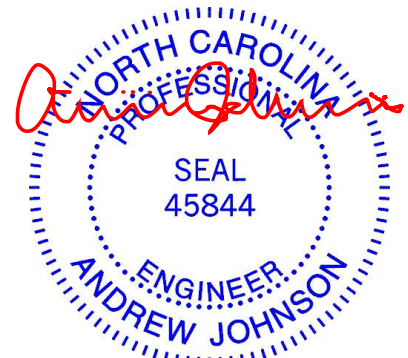
BOT CHORD 4-5=0/298
 WEBS 2-5=-344/0, 2-4=-344/0

NOTES-

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- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down at 1-10-4, and 79 lb down at 2-11-4 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=-70(B) 6=-79(B)



September 29, 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 28201-28201A	Truss F4	Truss Type Floor	Qty 2	Ply 1	7 PRINCE PLACE - FLOOR Job Reference (optional)	148113744
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:23 2021 Page 1
ID:IE3W8KxmJ181yqAG6ibMy_yZU56-eH0MzTmUPQGe_vNk7mDNrykYKUJQMnq_WRbLiHyZ7BM



Scale = 1:13.4

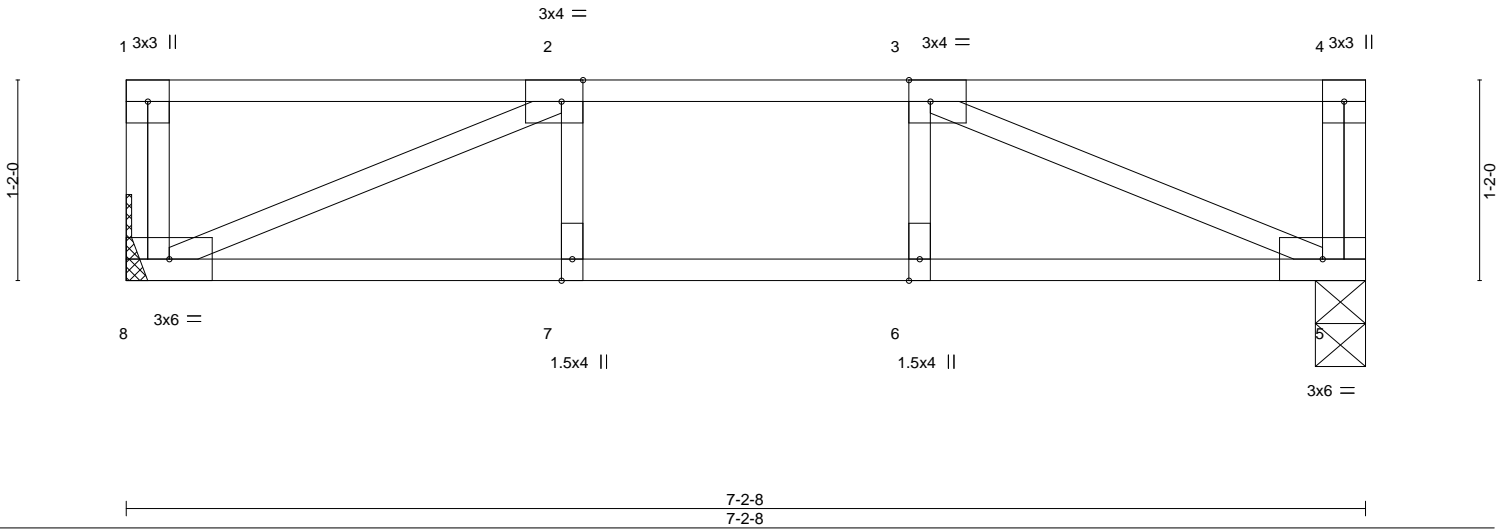


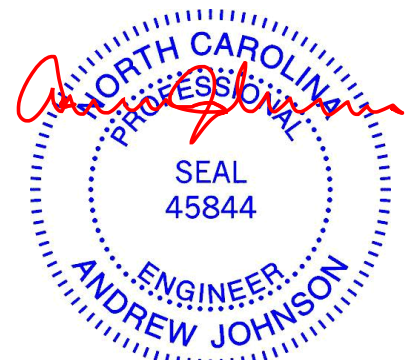
Plate Offsets (X,Y)--	[2:0-1-8,Edge], [3:0-1-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.40	Vert(LL) -0.04 7-8 >999 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.34	Vert(CT) -0.05 7-8 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.01 5 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 37 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) 8=Mechanical, 5=0-3-8
Max Grav 8=383(LC 1), 5=383(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-635/0
BOT CHORD 7-8=0/635, 6-7=0/635, 5-6=0/635
WEBS 2-8=-689/0, 3-5=-689/0

- 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) 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.



September 29, 2021

<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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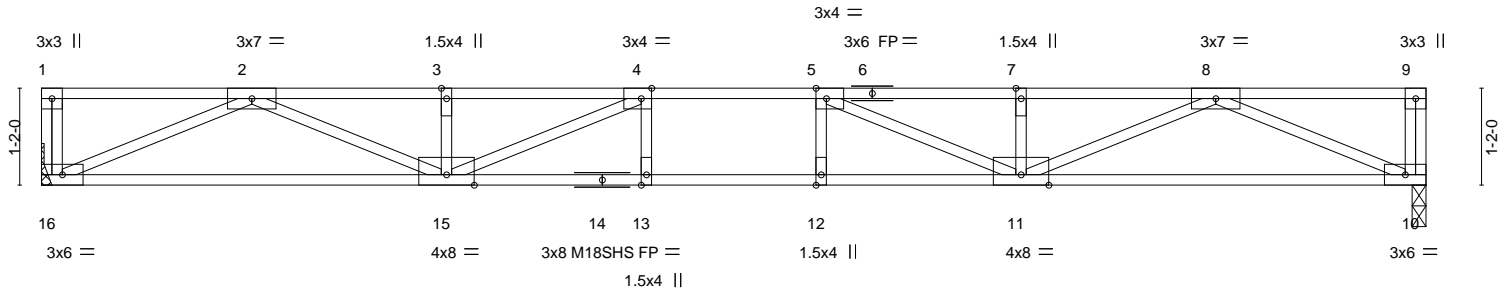
Job 28201-28201A	Truss F5	Truss Type Floor	Qty 1	Ply 1	7 PRINCE PLACE - FLOOR	148113745
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:24 2021 Page 1
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Scale = 1:27.7



16-8-0
16-8-0

Plate Offsets (X,Y)--	[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 0.64	Vert(LL) -0.25 13-15 >785 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.85	Vert(CT) -0.35 12-13 >568 360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.06 10 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 82 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.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		

REACTIONS. (size) 16=Mechanical, 10=0-2-0
Max Grav 16=903(LC 1), 10=903(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2970/0, 3-4=-2970/0, 4-5=-3522/0, 5-7=-2970/0, 7-8=-2970/0
BOT CHORD 15-16=0/1810, 13-15=0/3522, 12-13=0/3522, 11-12=0/3522, 10-11=0/1810
WEBS 2-16=-1972/0, 8-10=-1972/0, 2-15=0/1270, 3-15=-272/8, 8-11=0/1270, 7-11=-272/8, 4-15=-870/0, 5-11=-870/0

- 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) All plates are MT20 plates unless otherwise indicated.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
 - 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.



September 29, 2021

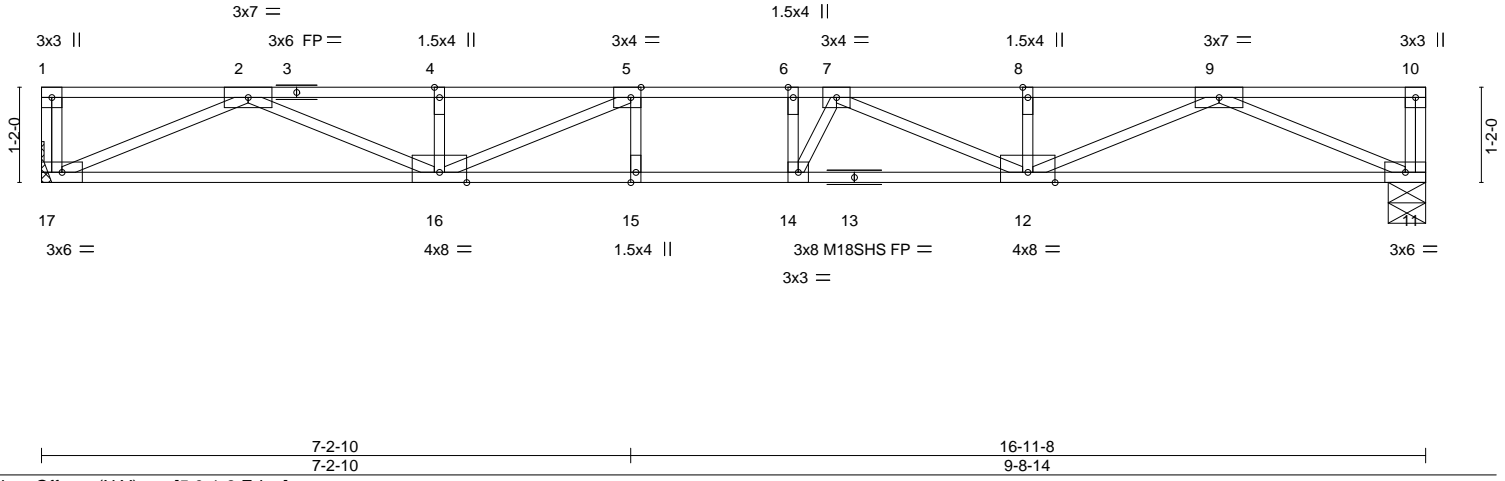
Job 28201-28201A	Truss F6	Truss Type Floor	Qty 5	Ply 1	7 PRINCE PLACE - FLOOR Job Reference (optional)	148113746
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:25 2021 Page 1
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Scale = 1:28.2



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 0.86	Vert(LL)	-0.27	14	>746	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.81	Vert(CT)	-0.37	14-15	>540	M18SHS	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.06	11	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.2 or 2x4 SPF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 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) 17=Mechanical, 11=0-5-8
Max Grav 17=919(LC 1), 11=919(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-3040/0, 4-5=-3040/0, 5-6=-3643/0, 6-7=-3643/0, 7-8=-3043/0, 8-9=-3043/0
BOT CHORD 16-17=0/1847, 15-16=0/3643, 14-15=0/3643, 12-14=0/3615, 11-12=0/1847
WEBS 2-17=-2013/0, 9-11=-2013/0, 2-16=0/1306, 4-16=-267/8, 9-12=0/1308, 5-16=-889/0, 7-12=-677/0, 7-14=-292/500, 6-14=-354/192

- 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) 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.



Job 28201-28201A	Truss F7	Truss Type Floor	Qty 6	Ply 1	7 PRINCE PLACE - FLOOR Job Reference (optional)	148113747
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:26 2021 Page 1
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Scale = 1:21.5

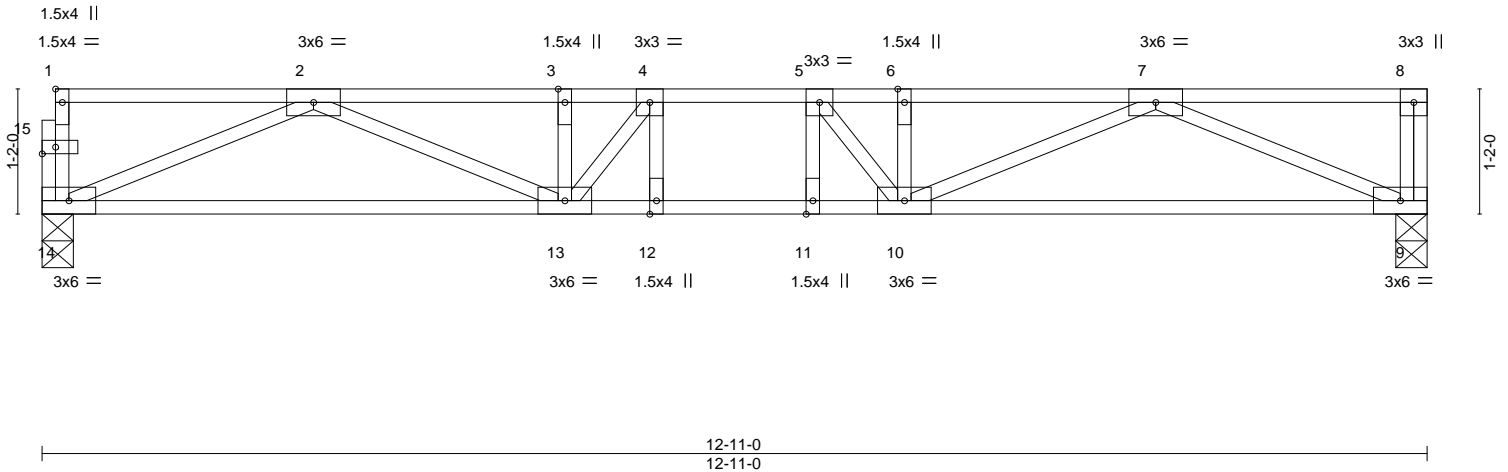


Plate Offsets (X, Y)--	[1:Edge,0-0-12], [15:0-1-8,0-0-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.37	Vert(LL) -0.10 11-12 >999 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.63	Vert(CT) -0.14 11-12 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.38	Horz(CT) 0.03 9 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 67 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=690(LC 1), 9=697(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2021/0, 3-4=-2021/0, 4-5=-2089/0, 5-6=-2020/0, 6-7=-2020/0
BOT CHORD 13-14=0/1338, 12-13=0/2089, 11-12=0/2089, 10-11=0/2089, 9-10=0/1341
WEBS 2-14=-1452/0, 7-9=-1461/0, 2-13=0/747, 7-10=0/743, 4-13=-345/141, 5-10=-346/140

- 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) 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) CAUTION, Do not erect truss backwards.



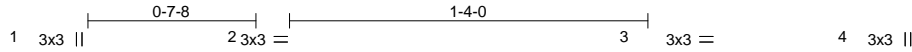
September 29, 2021

Job 28201-28201A	Truss F9	Truss Type Floor	Qty 2	Ply 1	7 PRINCE PLACE - FLOOR Job Reference (optional)	148113749
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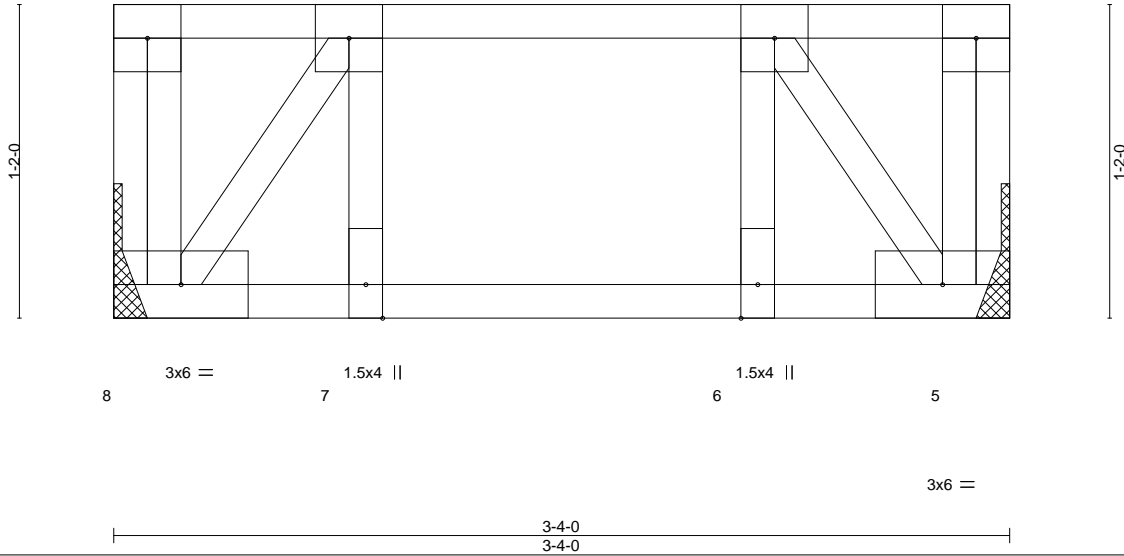
84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:27 2021 Page 1
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Scale = 1:8.6



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 0.08	Vert(LL)	-0.00	7	>999	480	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.05	Vert(CT)	-0.00	7	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-S							
									Weight: 21 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 3-4-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=Mechanical, 5=Mechanical
 Max Grav 8=170(LC 1), 5=170(LC 1)

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

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) 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.



September 29, 2021

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



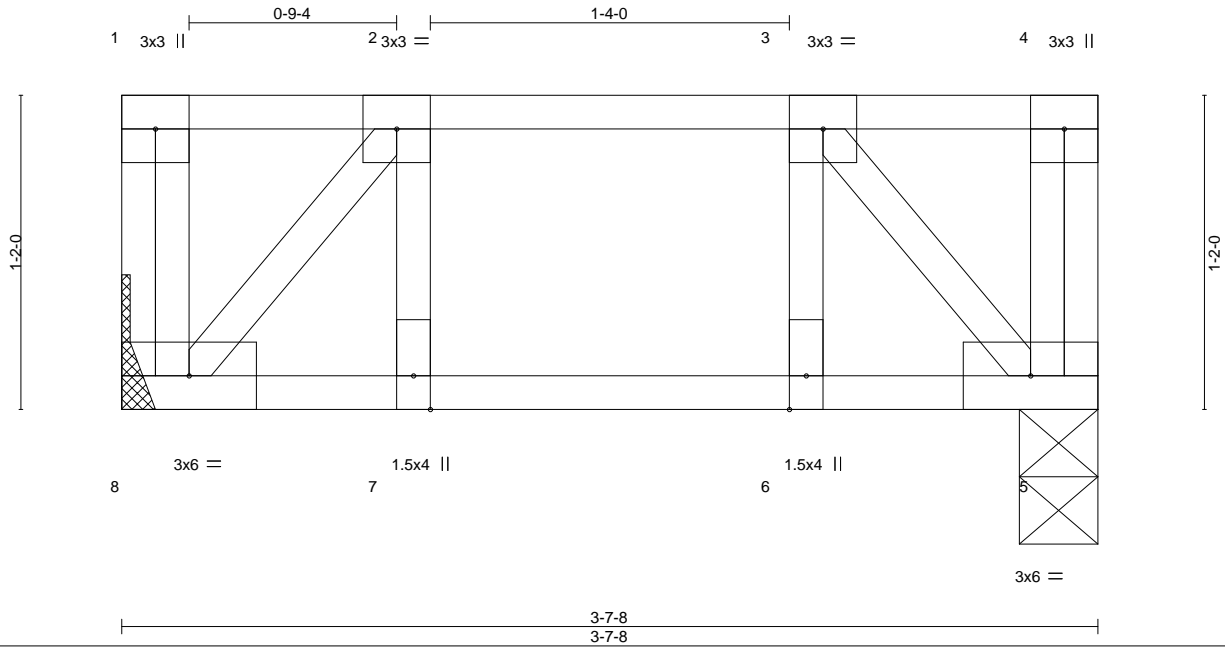
818 Soundside Road
 Edenton, NC 27932

Job 28201-28201A	Truss F10	Truss Type Floor	Qty 3	Ply 1	7 PRINCE PLACE - FLOOR Job Reference (optional)	148113750
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84 Components (Dunn),

Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:15 2021 Page 1
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Scale = 1:8.6

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 0.09	Vert(LL)	-0.00	7	>999	480	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.07	Vert(CT)	-0.00	7	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S							
								Weight: 23 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) 8=Mechanical, 5=0-3-8
 Max Grav 8=186(LC 1), 5=186(LC 1)

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

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) 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.



September 29, 2021

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818 Soundside Road
 Edenton, NC 27932

Job 28201-28201A	Truss F11	Truss Type Floor	Qty 4	Ply 1	7 PRINCE PLACE - FLOOR Job Reference (optional)	I48113751
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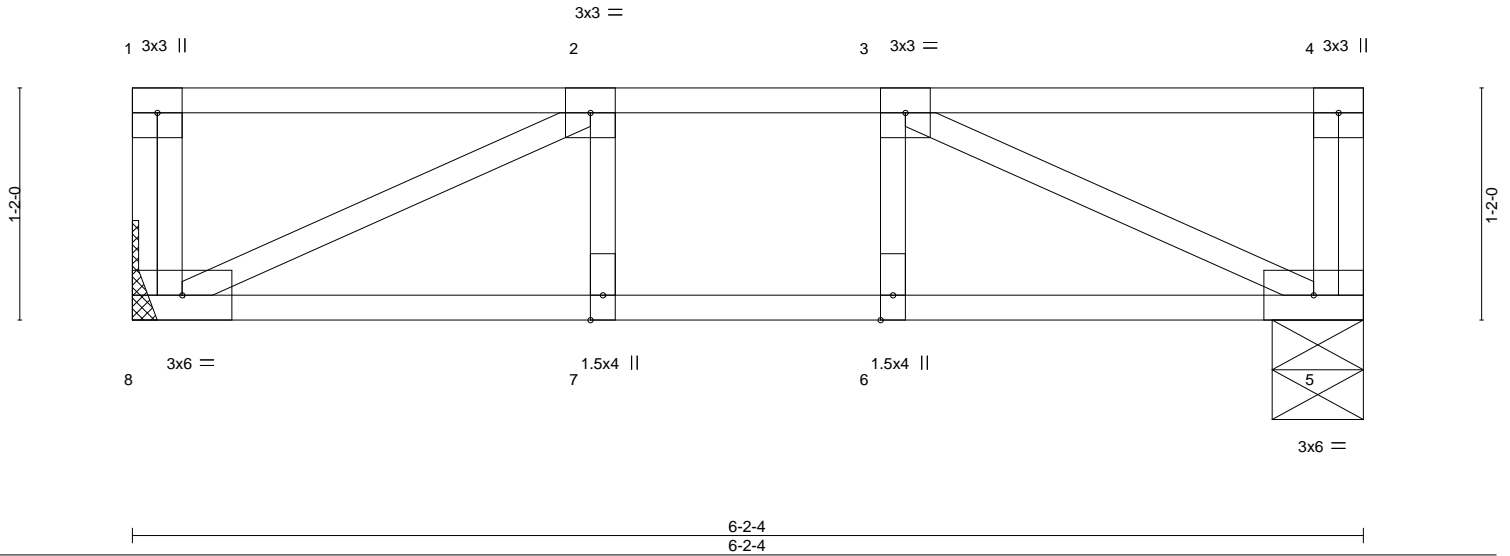
84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:15 2021 Page 1

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Scale = 1:11.6



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.33	Vert(LL)	-0.02	7-8	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.24	Vert(CT)	-0.03	7-8	>999		
BCLL 0.0	Lumber DOL 1.00	WB 0.13	Horz(CT)	0.00	5	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-S					Weight: 33 lb	FT = 20%F, 11%E
	Code IRC2015/TPI2014							

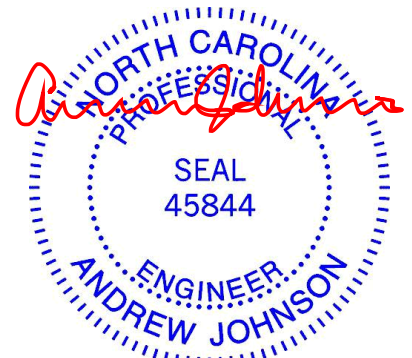
LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 WEBS 2x4 SP No.3(flat)

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) 8=Mechanical, 5=0-5-8
 Max Grav 8=327(LC 1), 5=327(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-475/0
 BOT CHORD 7-8=0/475, 6-7=0/475, 5-6=0/475
 WEBS 2-8=-524/0, 3-5=-524/0

- 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) 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.



September 29, 2021

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

Job 28201-28201A	Truss F12	Truss Type Floor	Qty 2	Ply 1	7 PRINCE PLACE - FLOOR Job Reference (optional)	148113752
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:16 2021 Page 1
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Scale = 1:16.5

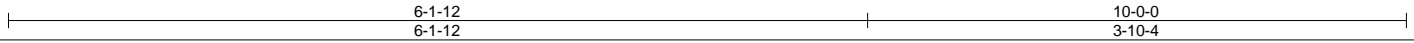
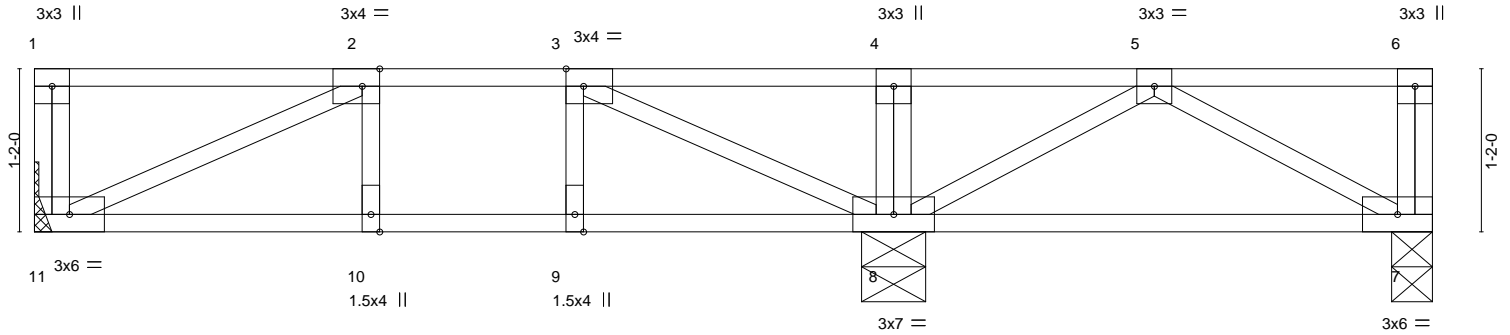


Plate Offsets (X, Y)--	[2:0-1-8,Edge], [3:0-1-8,Edge]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 40.0	Plate Grip DOL 1.00		TC 0.32	Vert(LL) -0.02	10-11	>999	480
TCDL 10.0	Lumber DOL 1.00		BC 0.22	Vert(CT) -0.02	10-11	>999	360
BCLL 0.0	Rep Stress Incr YES		WB 0.13	Horz(CT) 0.01	7	n/a	n/a
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S				
							PLATES MT20
							GRIP 197/144
							Weight: 53 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) 11=Mechanical, 7=0-3-8, 8=0-5-8
Max Grav 11=320(LC 3), 7=242(LC 7), 8=612(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-453/0
BOT CHORD 10-11=0/453, 9-10=0/453, 8-9=0/453, 7-8=0/273
WEBS 2-11=-498/0, 3-8=-518/0, 5-8=-310/0, 5-7=-313/0

- 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) 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.



September 29, 2021

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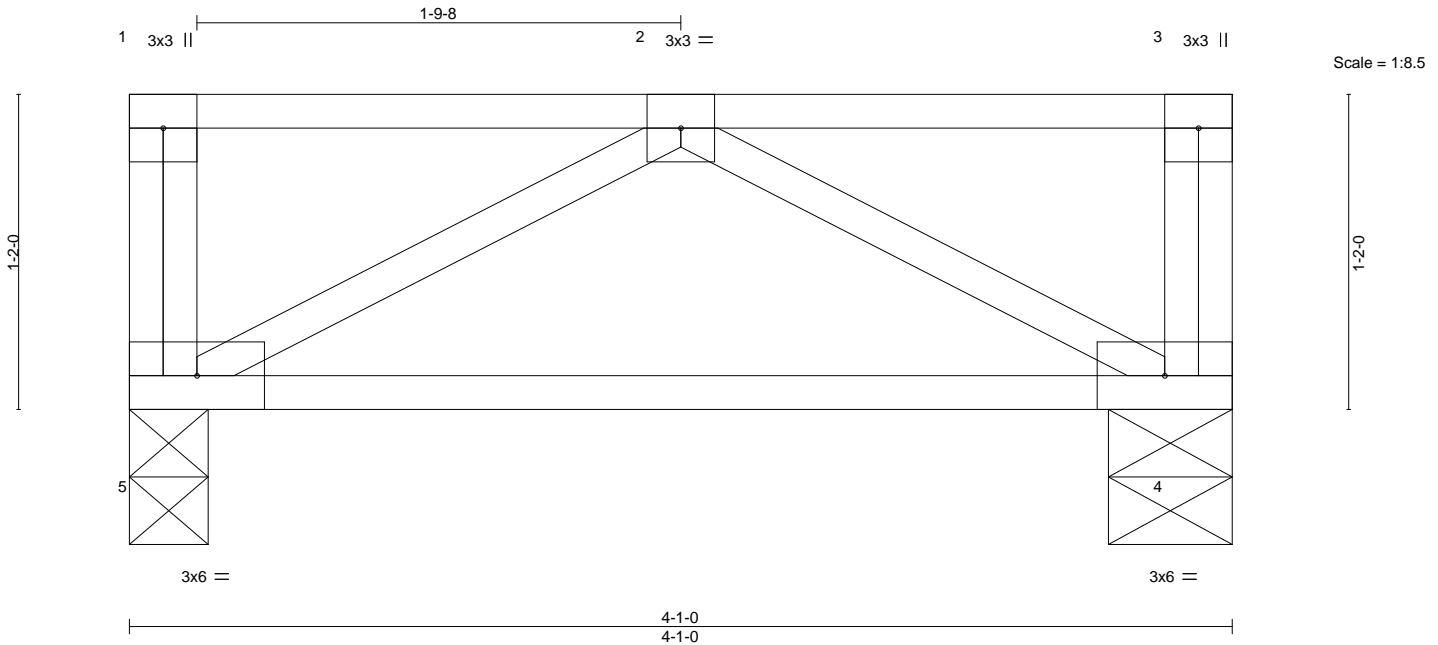


818 Soundside Road
Edenton, NC 27932

Job 28201-28201A	Truss F13	Truss Type Floor	Qty 1	Ply 1	7 PRINCE PLACE - FLOOR Job Reference (optional)	148113753
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:17 2021 Page 1
ID:IE3W8KxmJ181yqAG6ibMy_yZU56-p7f4jPhjqawUG_wanV6zbhUaf3JMy5D67W80UeyZ7BS



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.22	Vert(LL)	0.00	5	****	480	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.19	Vert(CT)	-0.04	4-5	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-P							
									Weight: 24 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 4-1-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 4=0-5-8
 Max Grav 5=211(LC 1), 4=211(LC 1)

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.
- 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.



September 29, 2021

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

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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 28201-28201A	Truss F14	Truss Type Floor	Qty 4	Ply 1	7 PRINCE PLACE - FLOOR Job Reference (optional)	148113754
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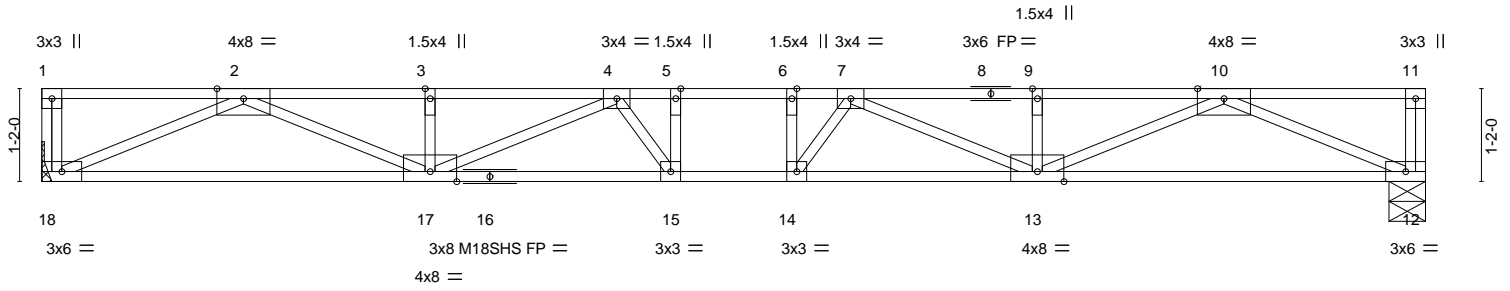
84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:18 2021 Page 1

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Scale = 1:28.9



17-4-8
17-4-8

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 0.58	Vert(LL)	-0.29 14-15	>703	480	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.73	Vert(CT)	-0.40 14-15	>511	360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.07 12	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S					Weight: 88 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 5-11-5 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 18=Mechanical, 12=0-5-8
 Max Grav 18=942(LC 1), 12=942(LC 1)

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

TOP CHORD 2-3=-3147/0, 3-4=-3147/0, 4-5=-3835/0, 5-6=-3835/0, 6-7=-3835/0, 7-9=-3147/0, 9-10=-3147/0
 BOT CHORD 17-18=0/1900, 15-17=0/3769, 14-15=0/3835, 13-14=0/3769, 12-13=0/1900
 WEBS 2-18=-2070/0, 10-12=-2070/0, 2-17=0/1365, 10-13=0/1365, 4-17=-681/0, 7-13=-681/0, 4-15=-210/451, 7-14=-210/451, 5-15=-295/130, 6-14=-295/130

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) 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.



September 29, 2021

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

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

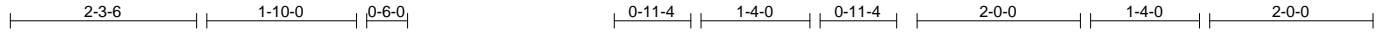


818 Soundside Road
 Edenton, NC 27932

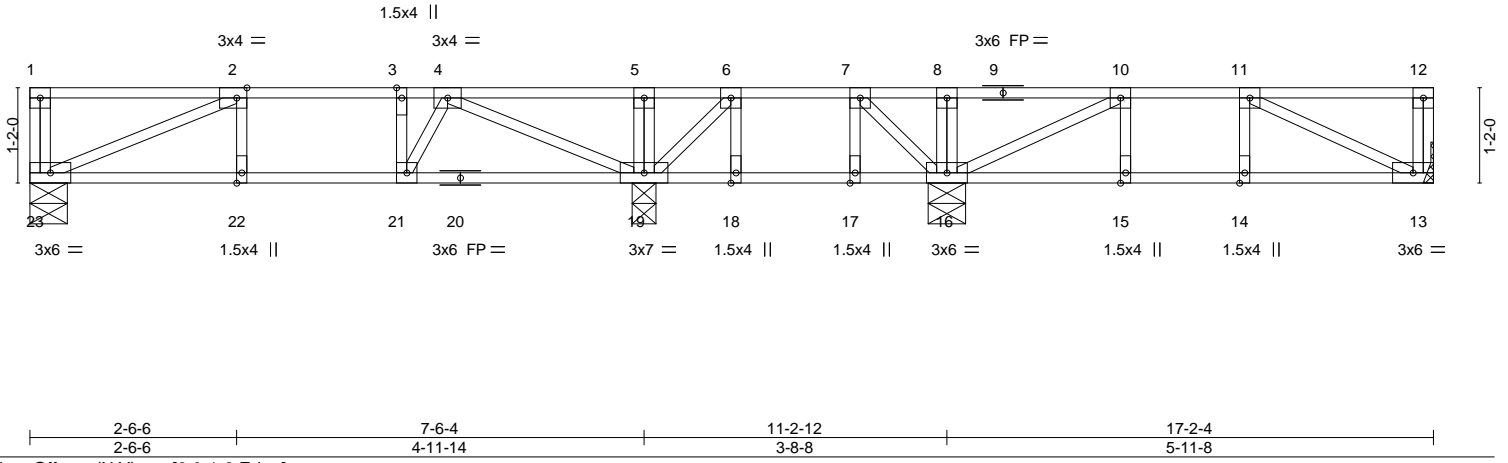
Job 28201-28201A	Truss F15	Truss Type Floor	Qty 1	Ply 1	7 PRINCE PLACE - FLOOR Job Reference (optional)	I48113755
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:19 2021 Page 1
ID:IE3W8KxmJ181yqAG6ibMy_yZU56-mVnr75zjMcmCVI4zuw9Rg6ZuhtyaQydPbqd7ZWYz7BQ



Scale = 1:28.2



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)	-0.03	22-23	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.27	Vert(CT)	-0.04	22-23	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.01	13	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 89 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. All bearings 0-5-8 except (jt=length) 19=0-3-8, 13=Mechanical.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 23=393(LC 16), 19=651(LC 12), 16=540(LC 11), 13=315(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-658/0, 3-4=-658/0, 10-11=-436/0
BOT CHORD 22-23=0/658, 21-22=0/658, 19-21=0/604, 15-16=0/436, 14-15=0/436, 13-14=0/436
WEBS 2-23=-714/0, 4-19=-742/0, 4-21=0/260, 10-16=-558/0, 11-13=-483/0

- 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) All plates are 3x3 MT20 unless otherwise indicated.
 - 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.



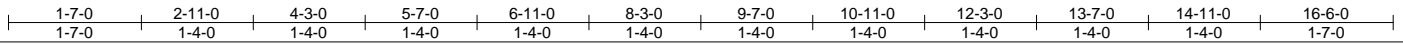
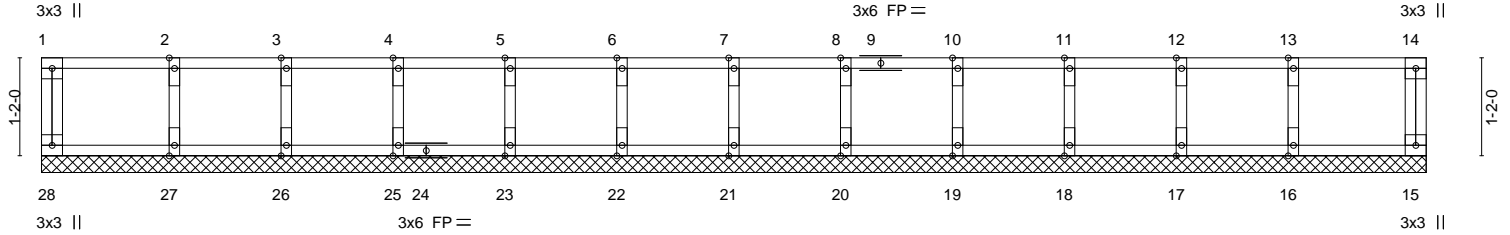
September 29, 2021

Job 28201-28201A	Truss KW1	Truss Type GABLE	Qty 1	Ply 1	7 PRINCE PLACE - FLOOR I48113756 Job Reference (optional)
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:28 2021 Page 1
ID:IE3W8KxmJ181yqAG6ibMy_yZU56-?EqF0AqcEzvx4gGhwJpYY?RU?V5f14Okfj6NVyZ7BH

Scale = 1:27.5



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	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	15	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R						Weight: 70 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 16-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15, 21, 22, 23, 25, 26, 27, 20, 19, 18, 17, 16

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) 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.



September 29, 2021

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



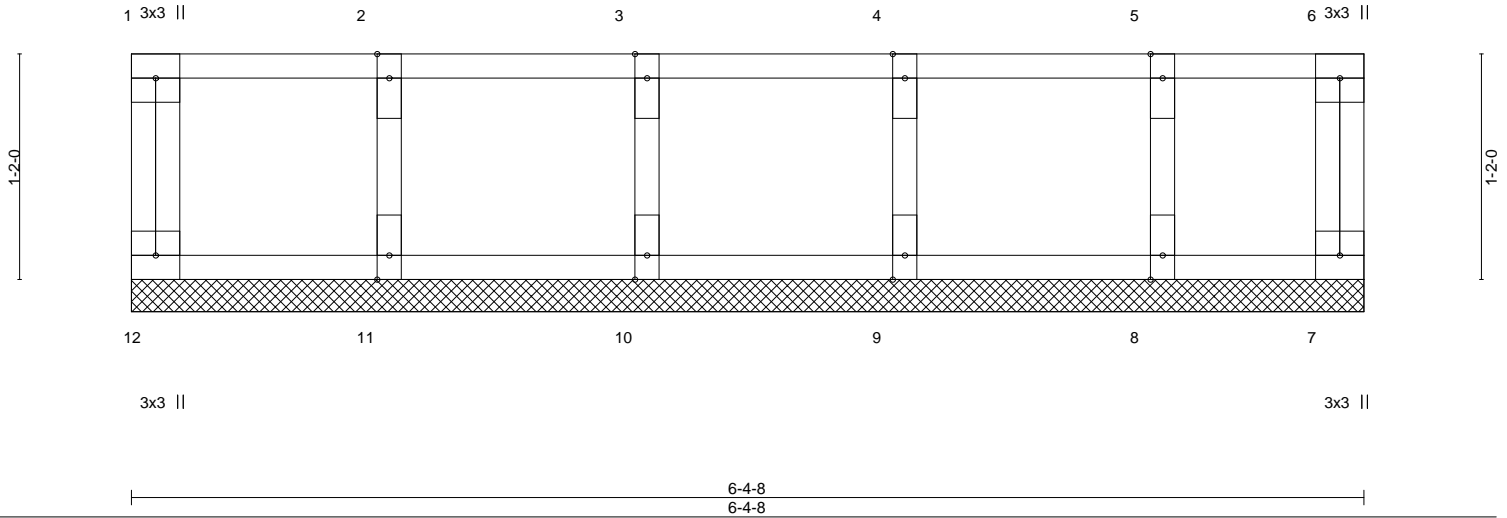
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	7 PRINCE PLACE - FLOOR	148113757
28201-28201A	KW2	Floor Supported Gable	1	1	Job Reference (optional)	

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:29 2021 Page 1
ID:IE3W8KxmJ181yqAG6ibMy_yZU56-TRNdEWqF?G1niqruU0Kn4D_frvRumXftuN2fvxyZ7BG

Scale: 1"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Horz(CT)	0.00	7	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-R					Weight: 30 lb	FT = 20%F, 11%E
	Code IRC2015/TPI2014							

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)

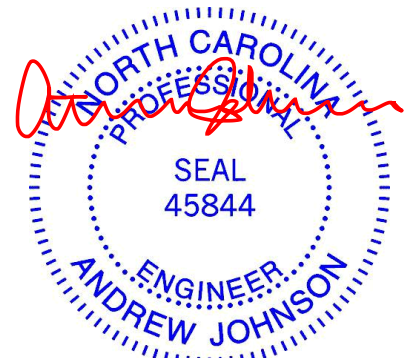
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 6-4-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

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) 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.



September 29, 2021

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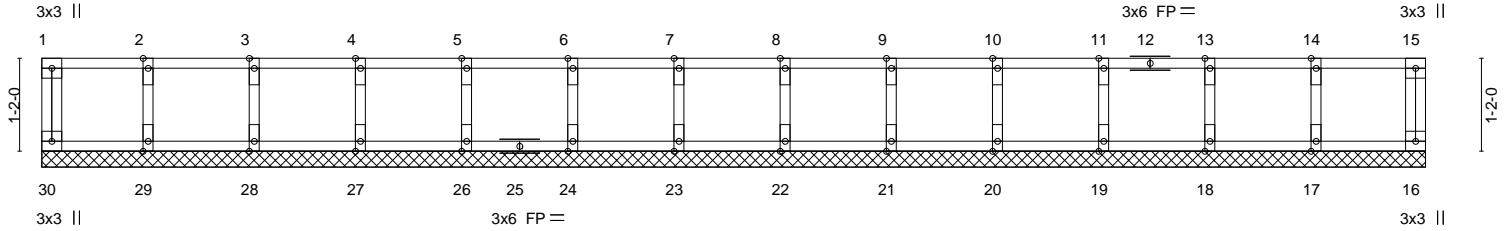
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	7 PRINCE PLACE - FLOOR	148113758
28201-28201A	KW3	Floor Supported Gable	1	1		
						Job Reference (optional)

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Tue Sep 28 10:56:30 2021 Page 1
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Scale = 1:28.9



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Horz(CT)	0.00	16	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-R						
	Code IRC2015/TPI2014						Weight: 73 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 17-4-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 24, 23, 22, 21, 20, 19, 18, 17

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.
- 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.



September 29, 2021

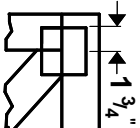
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



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

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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

ANSI/TFP 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing 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.