

RE: Winston Floor
 Winston Floor

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: D.R. HORTON - RAL - 055 Project Name: Winston Floor
 Lot/Block: Model: WINSTON
 Address: Subdivision:
 City: FUQUAY-VARINA State: NC

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

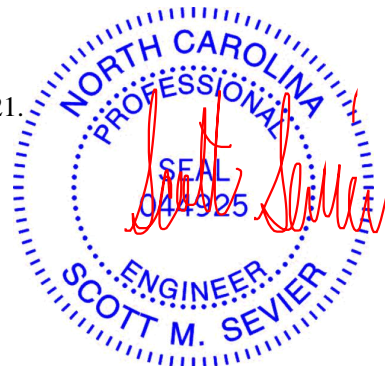
Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.5
 Wind Code: N/A Wind Speed: N/A mph
 Roof Load: N/A psf Floor Load: 55.0 psf

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

No.	Seal#	Truss Name	Date
1	I47933299	F1	9/17/2021
2	I47933300	F1E	9/17/2021
3	I47933301	F2	9/17/2021
4	I47933302	F3	9/17/2021
5	I47933303	F3E	9/17/2021
6	I47933304	F4	9/17/2021
7	I47933305	F4A	9/17/2021
8	I47933306	F4E	9/17/2021
9	I47933307	F5	9/17/2021
10	I47933308	F5E	9/17/2021
11	I47933309	F6	9/17/2021
12	I47933310	F6E	9/17/2021
13	I47933311	F7	9/17/2021
14	I47933312	F8	9/17/2021
15	I47933313	F9	9/17/2021
16	I47933314	F9A	9/17/2021
17	I47933315	F9E	9/17/2021

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: Sevier, Scott
 My license renewal date for the state of North Carolina is December 31, 2021.
 North Carolina COA: C-0844

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



September 17, 2021

Job	Truss	Truss Type	Qty	Ply	Winston Floor
Winston Floor	F1E	Floor Supported Gable	1	1	147933300

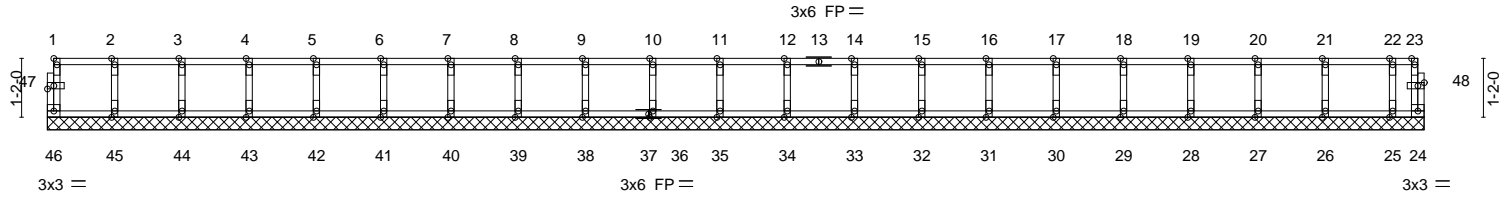
84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Sep 16 10:58:58 2021 Page 1
 ID:8EYqACbvnlVgaMjcr6YHYtyd5ag-loOnvZHTmDwU8ofsildHpTXN?bxnBjwwMRK8Jyd4Gx

0-1-8

0-1-8

Scale = 1:45.7



27-3-8
 27-3-8

Plate Offsets (X, Y)-- [1:Edge,0-0-12], [47:0-1-8,0-0-12], [48:0-1-8,0-0-12]

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 0.08	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	24	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R						

Weight: 113 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)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 27-3-8.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 46, 24, 45, 44, 43, 42, 41, 40, 39, 38, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25

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.



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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	Truss	Truss Type	Qty	Ply	Winston Floor	147933301
Winston Floor	F2	Floor	4	1	Job Reference (optional)	

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Sep 16 10:58:59 2021 Page 1
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Scale = 1:32.8

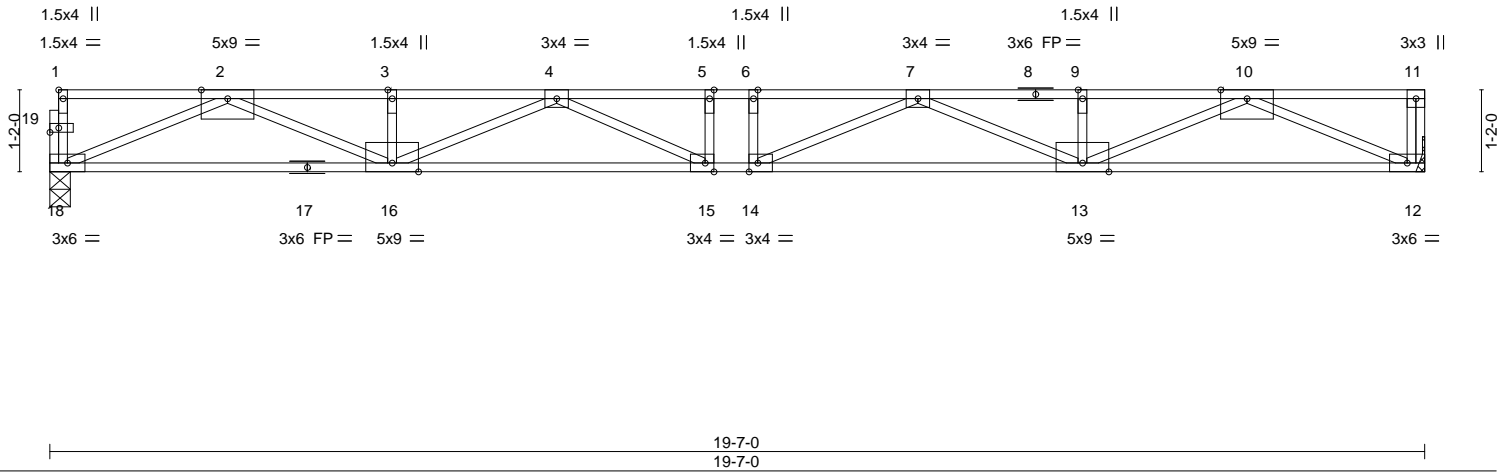


Plate Offsets (X,Y)--	[1:Edge,0-0-12], [14:0-1-8,Edge], [15:0-1-8,Edge], [19:0-1-8,0-0-12]				
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.89	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.93	Vert(LL) -0.46 14 >500 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.79	Vert(CT) -0.64 13-14 >363 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.09 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 98 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, Except: 2-2-0 oc bracing: 13-14.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 18=0-3-8, 12=Mechanical
Max Grav 18=1057(LC 1), 12=1063(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3698/0, 3-4=-3698/0, 4-5=-4940/0, 5-6=-4940/0, 6-7=-4940/0, 7-9=-3698/0, 9-10=-3698/0
BOT CHORD 16-18=0/2178, 15-16=0/4599, 14-15=0/4940, 13-14=0/4602, 12-13=0/2182
WEBS 10-12=-2378/0, 2-18=-2368/0, 10-13=0/1659, 2-16=0/1663, 7-13=-989/0, 4-16=-986/0, 7-14=-132/681, 4-15=-121/677

- 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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Job	Truss	Truss Type	Qty	Ply	Winston Floor
Winston Floor	F3	Floor	5	1	147933302

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Sep 16 10:59:00 2021 Page 1
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Scale = 1:33.3

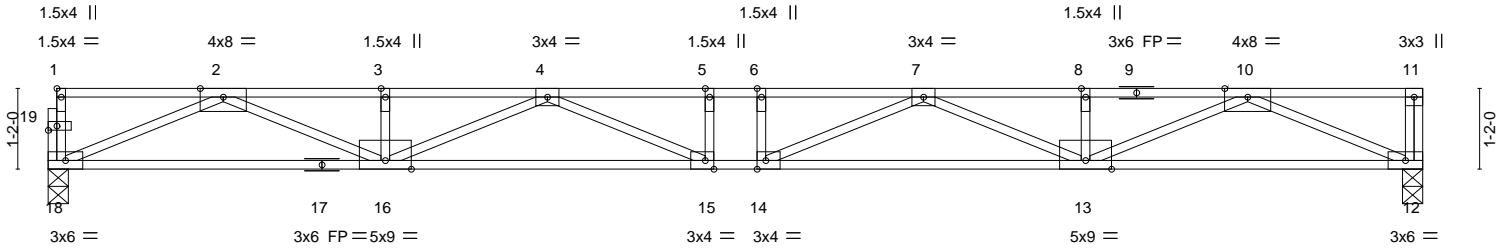


Plate Offsets (X,Y)--	[1:Edge,0-0-12], [14:0-1-8,Edge], [15:0-1-8,Edge], [19:0-1-8,0-0-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.94	Vert(LL) -0.46 15 >512 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.81	Vert(CT) -0.63 15 >373 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.10 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 99 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 4-11-13 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 18=0-3-8, 12=0-3-8
Max Grav 18=1073(LC 1), 12=1079(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3772/0, 3-4=-3772/0, 4-5=-5090/0, 5-6=-5090/0, 6-7=-5090/0, 7-8=-3772/0, 8-10=-3772/0
BOT CHORD 16-18=0/2215, 15-16=0/4709, 14-15=0/5090, 13-14=0/4709, 12-13=0/2218
WEBS 10-12=-2417/0, 2-18=-2408/0, 10-13=0/1700, 2-16=0/1704, 7-13=-1026/0, 4-16=-1025/0, 7-14=-112/735, 4-15=-112/735

- 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.



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

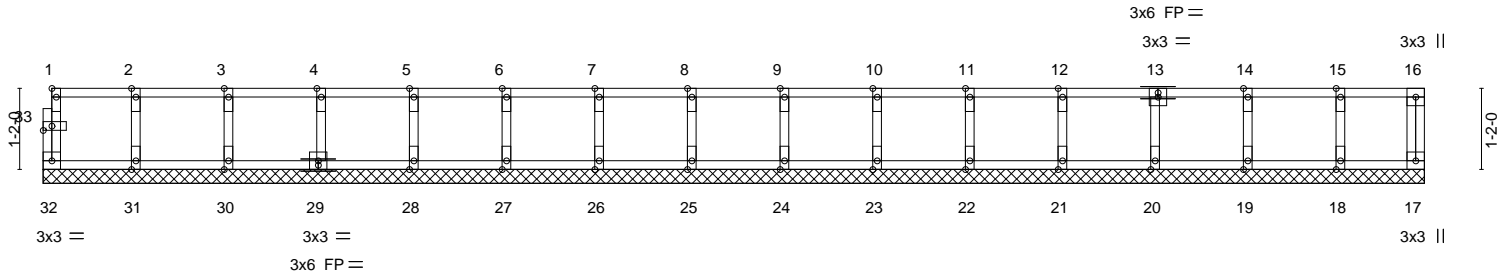
Job	Truss	Truss Type	Qty	Ply	Winston Floor
Winston Floor	F3E	Floor Supported Gable	1	1	147933303

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Sep 16 10:59:01 2021 Page 1
ID:8EYqACbvnIVgaMjcr6YHYtyd5ag-9N3vYbJL38I3?FNRNQA_Q69uFoyMO4gM2PYoLdyd4Gu

0-1-8

Scale = 1:33.2



19-10-8
19-10-8

Plate Offsets (X, Y)-- [1:Edge,0-0-12], [33:0-1-8,0-0-12]

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 0.08	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	17	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 83 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)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 19-10-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

- NOTES-**
- 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.
 - 7) CAUTION, Do not erect truss backwards.



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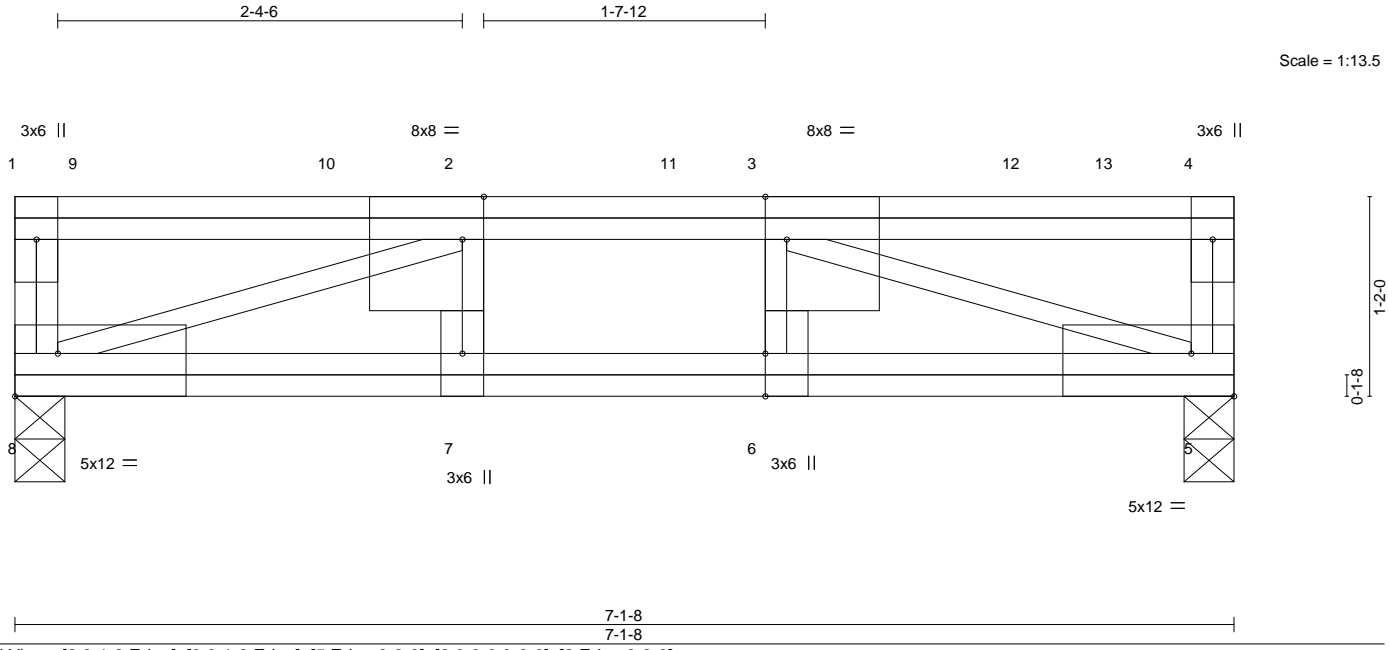
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Winston Floor
Winston Floor	F4	FLOOR GIRDER	1	1	I47933304

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Sep 16 10:59:01 2021 Page 1

ID:8EYqACbvnIvGaMjcr6YHYtyd5ag-9N3vYbJL38I3?FNRNQA_Q69iPomsOuYM2PYoLdyd4Gu



Scale = 1:13.5

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 0.84	Vert(LL)	-0.08	6-7	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.83	Vert(CT)	-0.10	6-7	>787		
BCLL 0.0	Rep Stress Incr	NO	WB 0.81	Horz(CT)	0.02	5	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 56 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat) *Except*
3-5,2-8: 2x4 SP No.2 or 2x4 SPF No.2(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=0-3-8, 5=0-3-8
Max Grav 8=2465(LC 3), 5=2443(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-973/0, 4-5=-932/0, 2-3=-4061/0
BOT CHORD 7-8=0/4061, 6-7=0/4061, 5-6=0/4061
WEBS 3-5=-4315/0, 2-8=-4315/0

- 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) 1050 lb down at 0-5-12, 144 lb down at 1-11-4, 1011 lb down at 2-5-12, 94 lb down at 3-11-4, 1005 lb down at 4-5-12, and 170 lb down at 5-11-4, and 1048 lb down at 6-5-12 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: 3=-963(B) 2=-963(B) 9=-996(B) 10=-74(F) 11=-74(F) 12=-90(F) 13=-987(B)

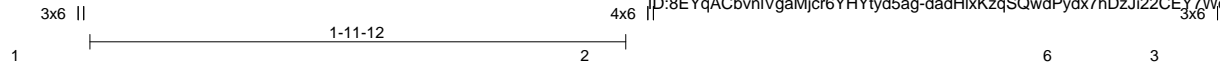


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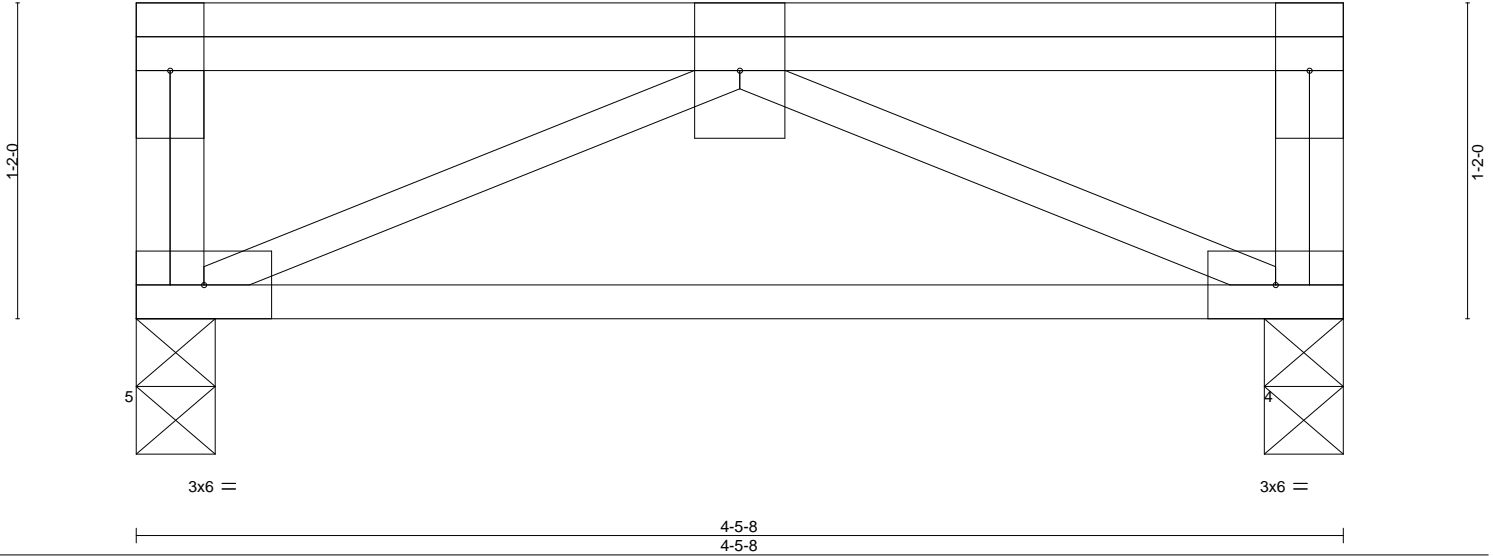
Job	Truss	Truss Type	Qty	Ply	Winston Floor	147933305
Winston Floor	F4A	FLOOR GIRDER	1	1	Job Reference (optional)	

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

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Scale = 1:8.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.14	Vert(LL)	0.00	5	****	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.29	Vert(CT)	-0.05	4-5	>986		
BCLL 0.0	Lumber DOL 1.00	WB 0.10	Horz(CT)	0.00	4	n/a		
BCDL 5.0	Rep Stress Incr NO	Matrix-P						
	Code IRC2015/TPI2014						Weight: 31 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 4-5-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 4=0-3-8
 Max Grav 5=278(LC 1), 4=363(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD 4-5=0/376
 WEBS 2-5=-415/0, 2-4=-415/0

- 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.
 - 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) 74 lb down at 1-11-4, and 104 lb down at 3-11-4 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
 1) 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=-74(B) 6=-104(B)



September 17, 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

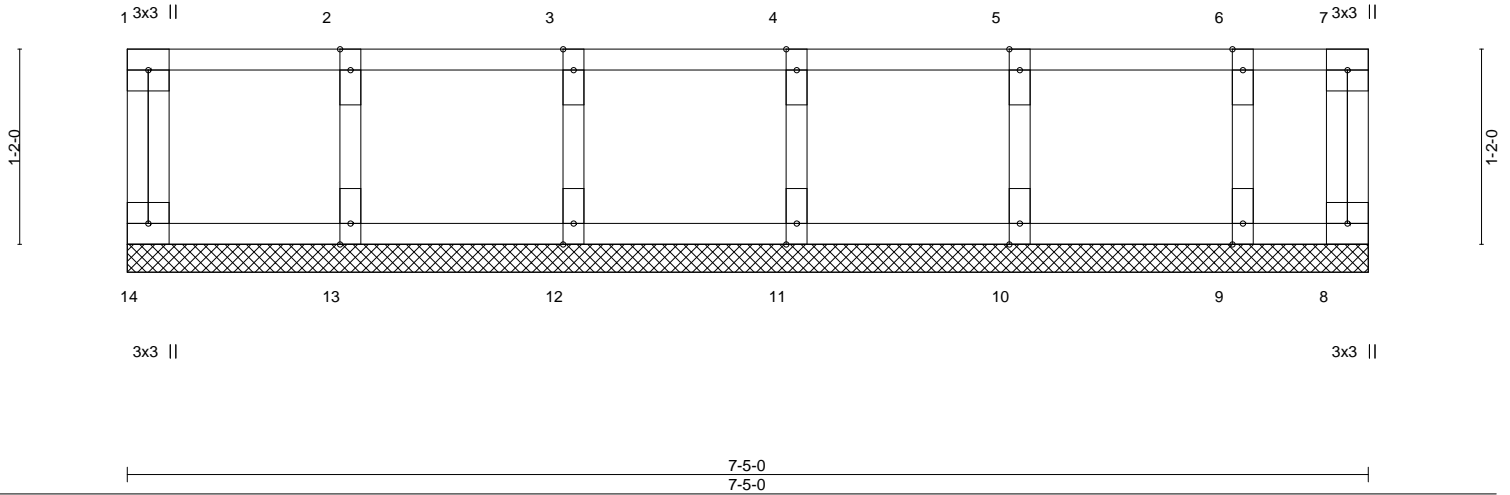
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Winston Floor	I47933306
Winston Floor	F4E	Floor Supported Gable	1	1	Job Reference (optional)	

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Sep 16 10:59:02 2021 Page 1
ID:8EYqACbvnlVgaMjcr6YHYtyd5ag-dadHlxKzqSQwdPydx7hDzJi3_Clj7XwVH3lLu4yd4Gt

Scale = 1:13.8



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 0.08	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	8	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R					Weight: 34 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)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 7-5-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

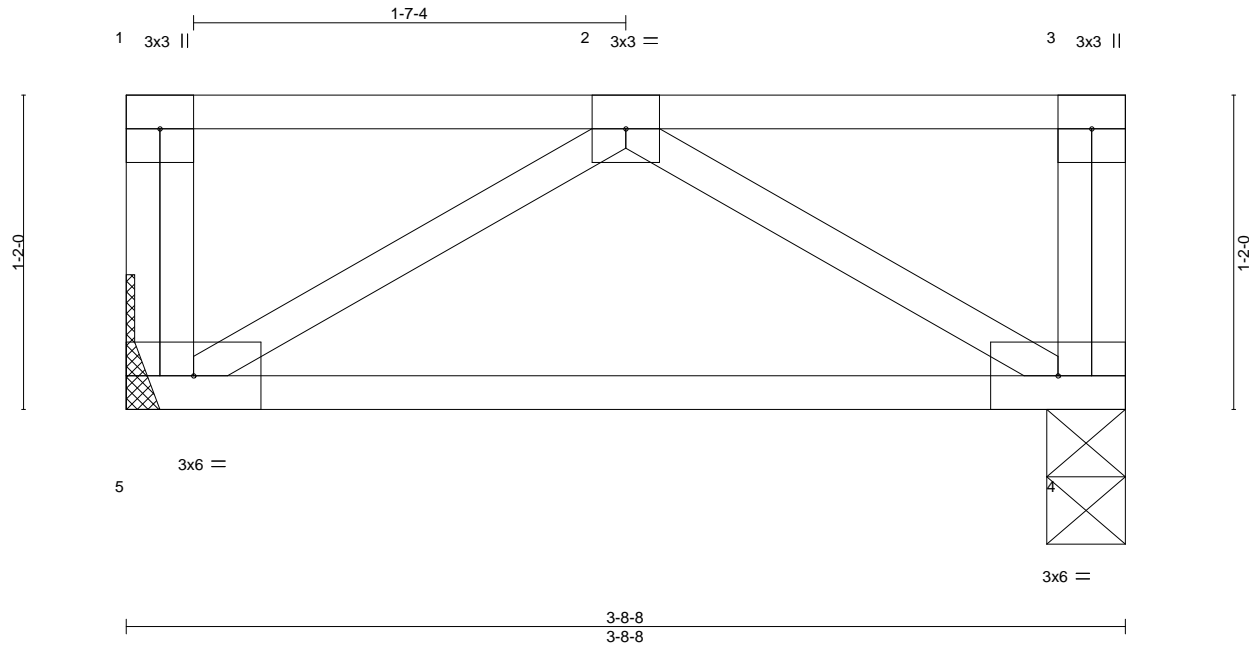
- NOTES-**
- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 2) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 3) 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.



Job Winston Floor	Truss F5	Truss Type Floor	Qty 1	Ply 1	Winston Floor	I47933307
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Sep 16 10:59:03 2021 Page 1
ID:8EYqACbvnIVgaMjcr6YHYtyd5ag-6mBgzHKbbIYnFZXpVrDSVXECAccts_sfVj1vQWyd4Gs



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 0.18	Vert(LL)	0.00	5	****	480	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.15	Vert(CT)	-0.02	4-5	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-P							
									Weight: 22 lb	FT = 20%F, 11%E

LUMBER-

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 3-8-8 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=190(LC 1), 4=190(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.
- 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.



September 17, 2021

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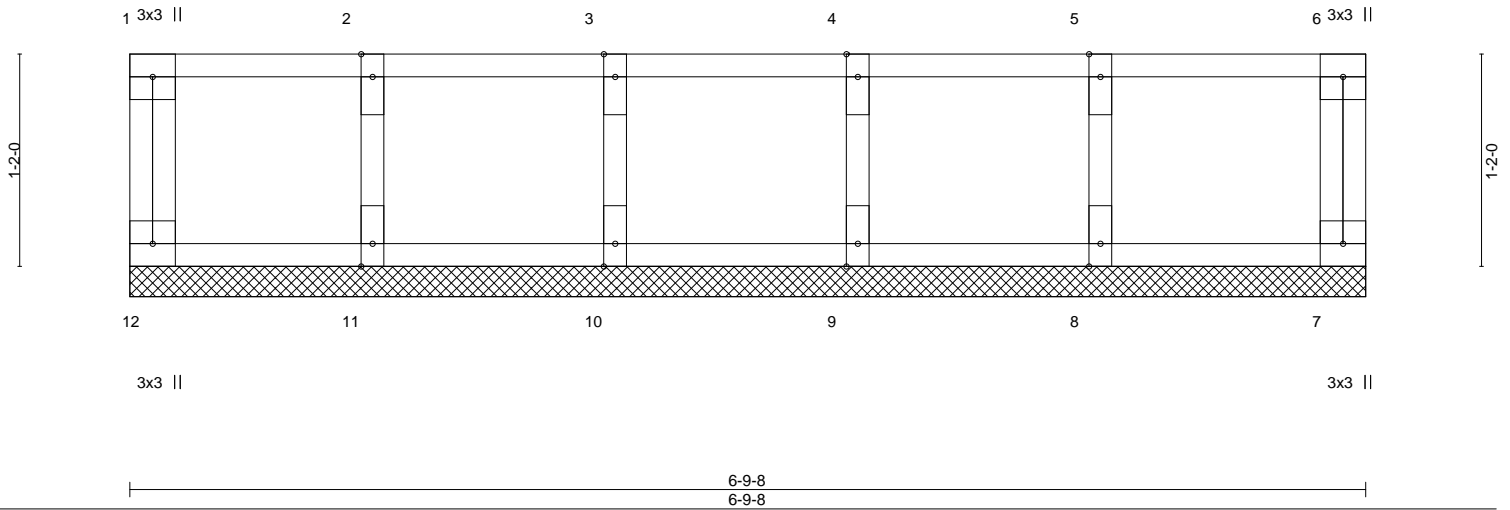
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Winston Floor
Winston Floor	F5E	Floor Supported Gable	1	1	I47933308
					Job Reference (optional)

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Sep 16 10:59:03 2021 Page 1
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Scale = 1:12.7



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)	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	7	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R					Weight: 31 lb	FT = 20%F, 11%E

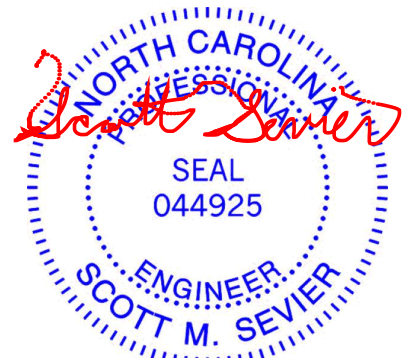
LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 6-9-8.
(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 17, 2021

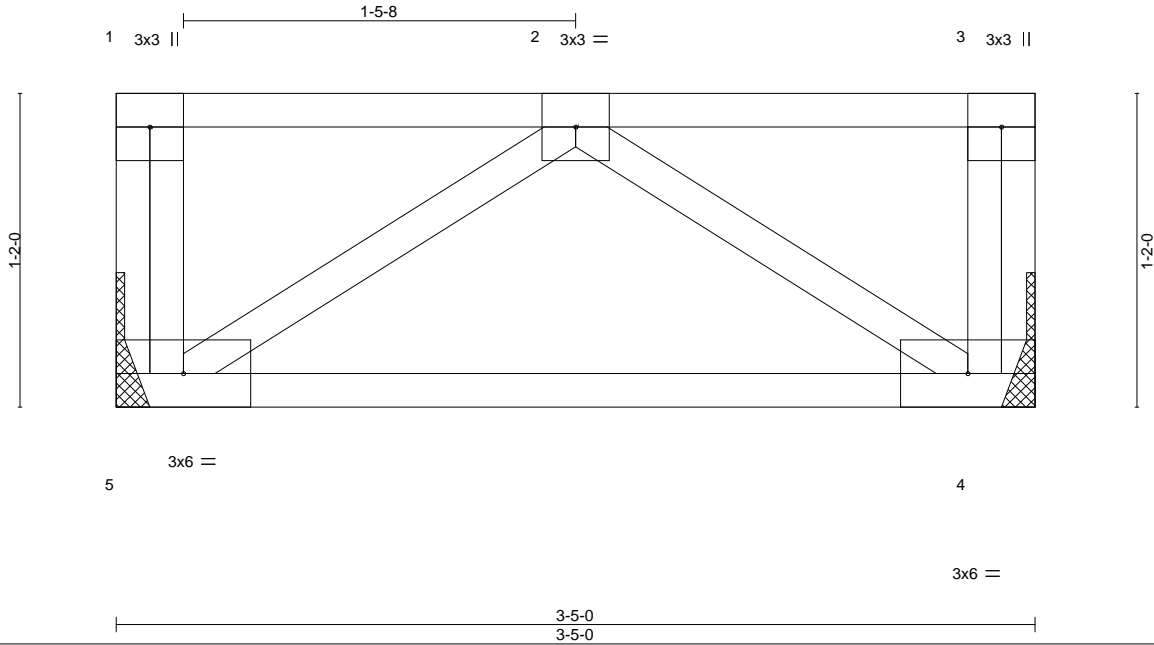
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Winston Floor	I47933309
Winston Floor	F6	Floor	2	1	Job Reference (optional)	

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Sep 16 10:59:04 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 0.15	Vert(LL)	0.00	5	****	480	MT20	197/144
TCDL 10.0	Lumber DOL	1.00	BC 0.13	Vert(CT)	-0.02	4-5	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-P							
									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 3-5-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 4=Mechanical
 Max Grav 5=174(LC 1), 4=174(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.
- 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.



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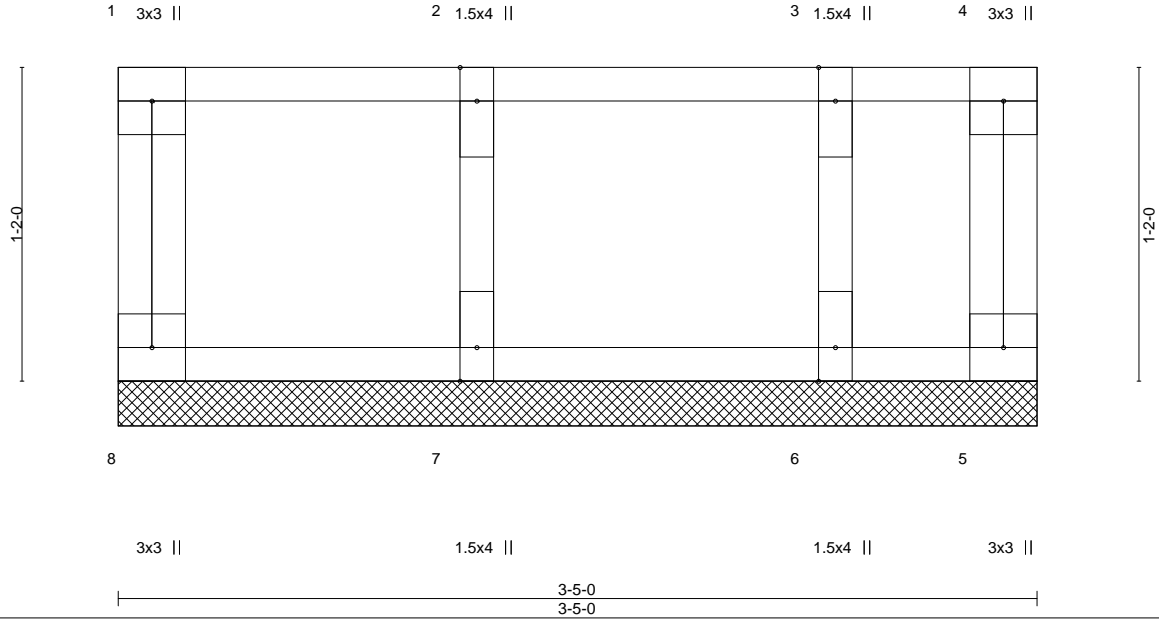


818 Soundside Road
 Edenton, NC 27932

Job Winston Floor	Truss F6E	Truss Type Floor Supported Gable	Qty 1	Ply 1	Winston Floor Job Reference (optional)	I47933310
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84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Sep 16 10:59:04 2021 Page 1
ID:8EYqACbvnlVgaMjcr6YHYtyd5ag-ayl2AdLDM3gesj603Ykh2knOV?_BbRPokNnSyyd4Gr



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)	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	5	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R						Weight: 18 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 3-5-0 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)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 3-5-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

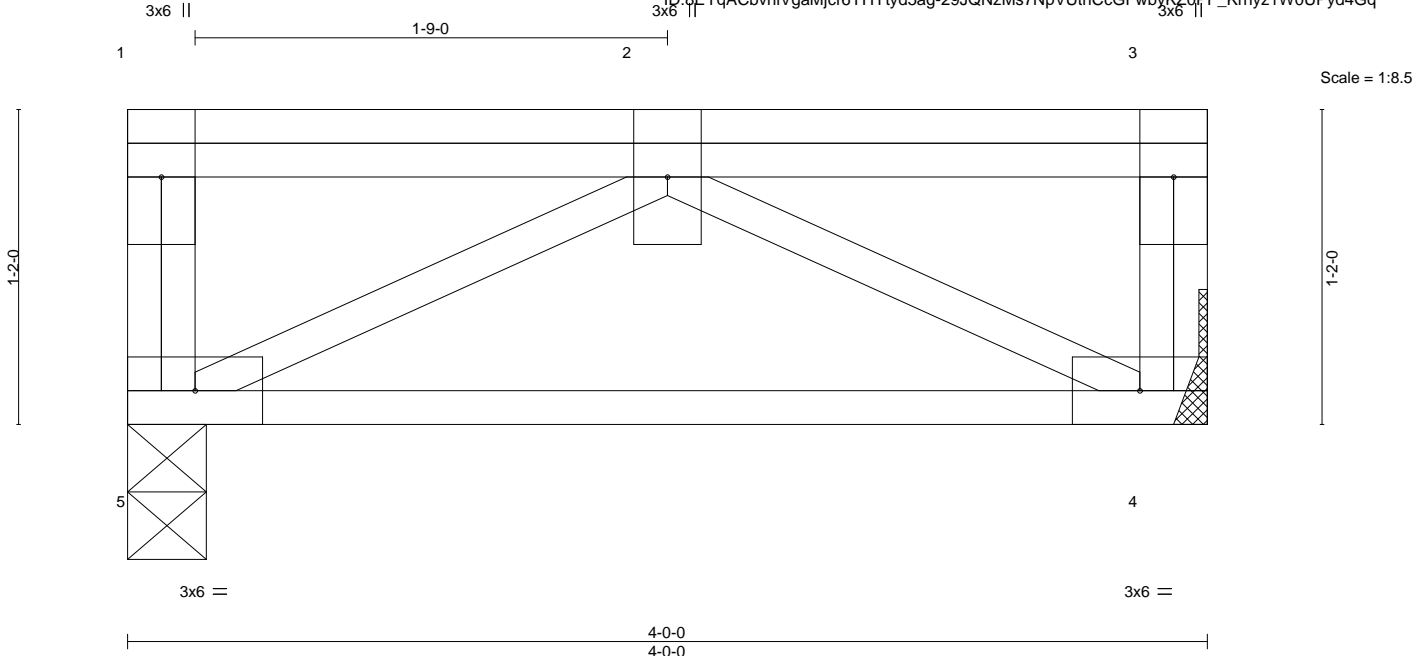
- NOTES-**
- 1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 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 17, 2021

Job	Truss	Truss Type	Qty	Ply	Winston Floor	I47933311
Winston Floor	F7	FLOOR GIRDER	1	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334, 8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Sep 16 10:59:05 2021 Page 1
 ID: 8EYqACbvnIVgaMjcr6YHYtyd5ag-29JQNzMs7NpVUthCcGFwbyKZ0PF_Krhyz1W0UPyd4Gq



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.09	Vert(LL) 0.00	5	****	480	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.00	BC 0.37	Vert(CT) -0.03	4-5	>999	360		
BCLL 0.0	Lumber DOL 1.00	WB 0.22	Horz(CT) 0.00	4	n/a	n/a		
BCDL 5.0	Rep Stress Incr NO	Matrix-P					Weight: 28 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 4-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 4=Mechanical
 Max Grav 5=531(LC 1), 4=531(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD 4-5=0/806
 WEBS 2-5=-910/0, 2-4=-910/0

- 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) Refer to girder(s) for truss to truss connections.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 649 lb down at 2-1-12 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: 4-5=-10, 1-3=-100
 Concentrated Loads (lb)
 Vert: 2=-649(F)



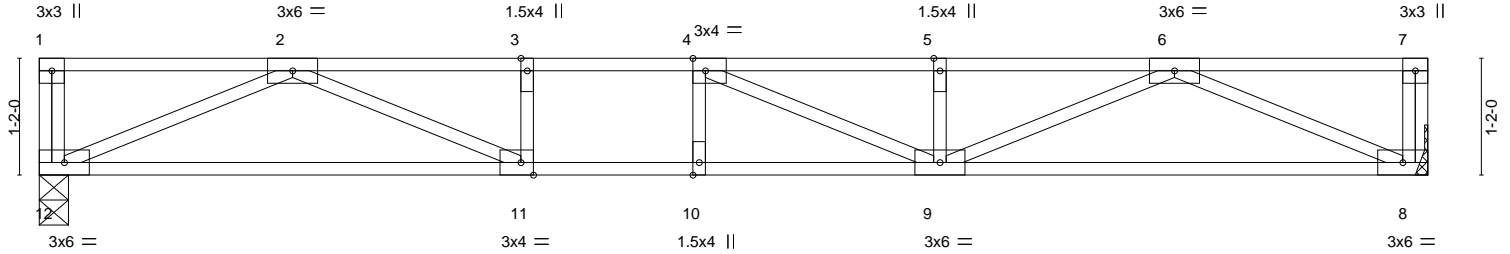
Job	Truss	Truss Type	Qty	Ply	Winston Floor
Winston Floor	F8	Floor	1	1	147933312

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Sep 16 10:59:05 2021 Page 1
ID:8EYqACbvnlVgaMjcr6YHYtyd5ag-29JQNzMs7NpVUthCcGFwbyKQUP7eKnjyz1W0UPyd4Gq



Scale = 1:23.0



13-10-8
13-10-8

Plate Offsets (X,Y)--	[4:0-1-8,Edge], [11:0-1-8,Edge]	
LOADING (psf)	SPACING-	CSI.
TCLL 40.0	2-0-0	TC 0.70
TCDL 10.0	Plate Grip DOL 1.00	BC 0.84
BCLL 0.0	Lumber DOL 1.00	WB 0.48
BCDL 5.0	Rep Stress Incr YES	Matrix-S
	Code IRC2015/TPI2014	
		DEFL.
		in (loc) l/defl L/d
		Vert(LL) -0.21 9-10 >786 480
		Vert(CT) -0.27 9-10 >606 360
		Horz(CT) 0.03 8 n/a n/a
		PLATES
		MT20
		GRIP
		197/144
		Weight: 69 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) 12=0-3-8, 8=Mechanical
Max Grav 12=749(LC 1), 8=749(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2352/0, 3-4=-2352/0, 4-5=-2299/0, 5-6=-2299/0
BOT CHORD 11-12=0/1466, 10-11=0/2352, 9-10=0/2352, 8-9=0/1458
WEBS 6-8=-1589/0, 2-12=-1598/0, 6-9=0/920, 2-11=0/999, 5-9=-293/0, 3-11=-280/0, 4-9=-404/194

- 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.



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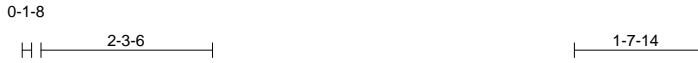


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Winston Floor
Winston Floor	F9	Floor	6	1	I47933313
					Job Reference (optional)

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Sep 16 10:59:06 2021 Page 1
ID:8EYqACbvnIVgaMjcr6YHYtyd5ag-WLtoBINUgxm61GOAzM979saSpXR3A?5ChGZ1ryd4Gp



0-1-8
Scale = 1:30.6

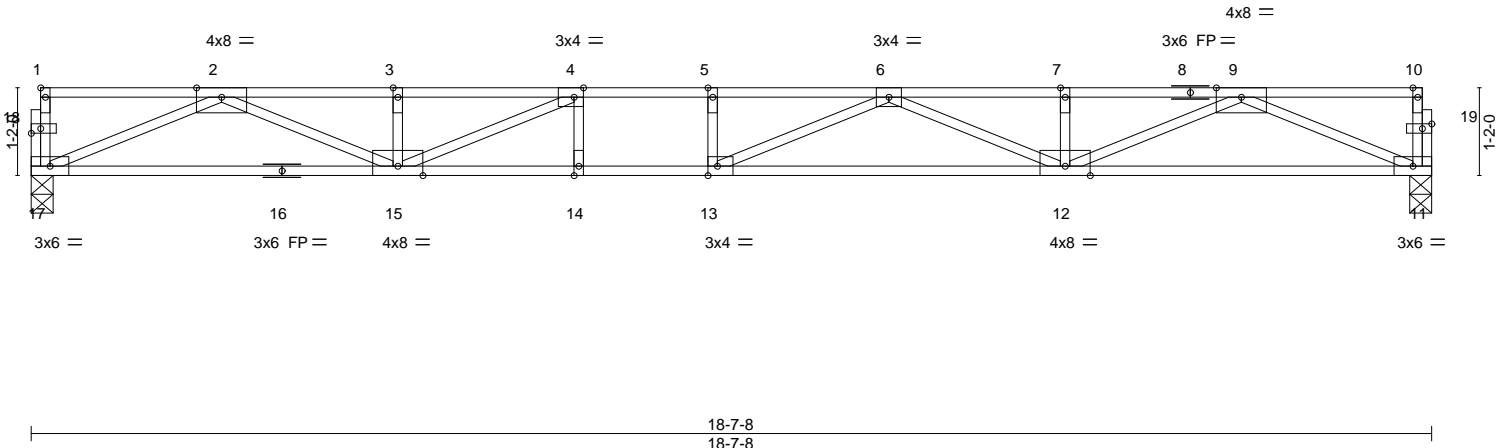


Plate Offsets (X,Y)--	[1:Edge,0-0-12], [4:0-1-8,Edge], [13:0-1-8,Edge], [18:0-1-8,0-0-12], [19:0-1-8,0-0-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.75	Vert(LL)	-0.39 12-13	>559	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.61	Vert(CT)	-0.56 12-13	>396	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.07 11	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S					Weight: 91 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 4-10-10 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) 17=0-3-8, 11=0-3-8
Max Grav 17=1004(LC 1), 11=1004(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3435/0, 3-4=-3435/0, 4-5=-4369/0, 5-6=-4369/0, 6-7=-3465/0, 7-9=-3465/0
BOT CHORD 15-17=0/2054, 14-15=0/4369, 13-14=0/4369, 12-13=0/4242, 11-12=0/2064
WEBS 9-11=-2243/0, 2-17=-2232/0, 9-12=0/1532, 2-15=0/1512, 3-15=-255/37, 6-12=-851/0, 4-15=-1222/0, 6-13=-235/584

- 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) 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 17, 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/TPI 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>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Winston Floor	147933314
Winston Floor	F9A	FLOOR GIRDER	1	1	Job Reference (optional)	

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

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Sep 16 10:59:07 2021 Page 1
ID:8EYqACbvnVgaMjcr6YHYtyd5ag-_XRAoeO6f_3CjArakhHOGnPMnDsDoeLFQL?6ZHyd4Go



Plate Offsets (X,Y)--	[2:0-3-12,Edge], [5:0-1-8,Edge], [6:0-3-0,0-0-0], [12:Edge,0-1-8], [14:0-1-8,Edge], [19:0-1-8,0-0-8], [20:0-1-8,0-0-8]				
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 0.65	Vert(LL) -0.40 13-14 >553 480	MT20	197/144
TCDL 10.0	Lumber DOL 1.00	BC 0.70	Vert(CT) -0.56 13-14 >391 360	M18SHS	244/190
BCLL 0.0	Rep Stress Incr NO	WB 0.66	Horz(CT) 0.09 12 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 117 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
BOT CHORD 2x4 SP DSS(flat)
WEBS 2x4 SP No.3(flat) *Except*
 10-12,2-18,10-13,2-16,7-13,5-16,7-14: 2x4 SP No.2 or 2x4 SPF No.2(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) 18=0-3-8, 12=0-3-8
 Max Grav 18=1109(LC 1), 12=1330(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-4194/0, 4-5=-4194/0, 5-6=-5477/0, 6-7=-5477/0, 7-8=-5197/0, 8-10=-5197/0
BOT CHORD 16-18=0/2461, 15-16=0/5477, 14-15=0/5477, 13-14=0/5698, 12-13=0/3033
WEBS 10-12=-3259/0, 2-18=-2642/0, 10-13=0/2338, 2-16=0/1873, 8-13=-620/0, 7-13=-541/0, 5-16=-1578/0, 7-14=-659/177

- 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 MT20 plates unless otherwise indicated.
 - 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) 511 lb down at 14-0-4 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
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 12-18=-10, 1-11=-100
 Concentrated Loads (lb)
 Vert: 21=-431(B)



September 17, 2021

Job	Truss	Truss Type	Qty	Ply	Winston Floor	147933315
Winston Floor	F9E	Floor Supported Gable	1	1	Job Reference (optional)	

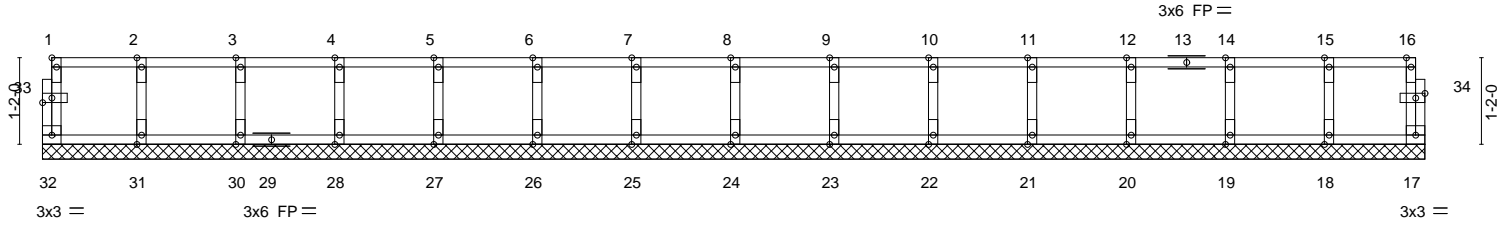
84 Components (Dunn), Dunn, NC - 28334,

8.520 s Aug 27 2021 MiTek Industries, Inc. Thu Sep 16 10:59:07 2021 Page 1
 ID:8EYqACbvnIvgaMjcr6YHYtyd5ag_XRAoeO6f_3CjArakhHOGNPvnD01ooAFQL?6ZHyd4Go

0-1-8

0-1-8

Scale = 1:31.0



18-7-8
18-7-8

Plate Offsets (X, Y)--	[1:Edge,0-0-12], [33:0-1-8,0-0-12], [34:0-1-8,0-0-12]	
LOADING (psf)	SPACING- 2-0-0	CSI.
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08
TCDL 10.0	Lumber DOL 1.00	BC 0.01
BCLL 0.0	Rep Stress Incr YES	WB 0.03
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R
		DEFL. in (loc) l/defl L/d
		Vert(LL) n/a - n/a 999
		Vert(CT) n/a - n/a 999
		Horz(CT) 0.00 17 n/a n/a
		PLATES MT20
		GRIP 197/144
		Weight: 78 lb FT = 20%F, 11%E

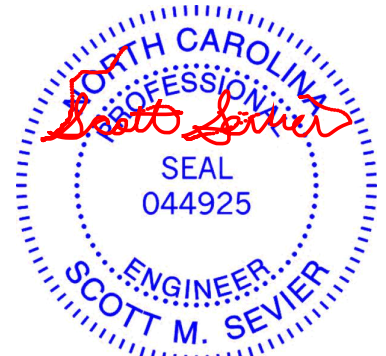
LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2(flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

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 18-7-8.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18

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

- NOTES-**
- 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 17, 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



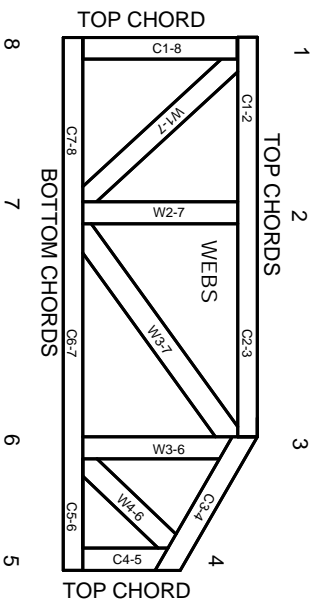
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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