

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: Q-2000714-1  
Weaver Smith Residence-Floor

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Peak Truss Builders, LLC.

Pages or sheets covered by this seal: E14271376 thru E14271411

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



April 7, 2020

Gilbert, Eric

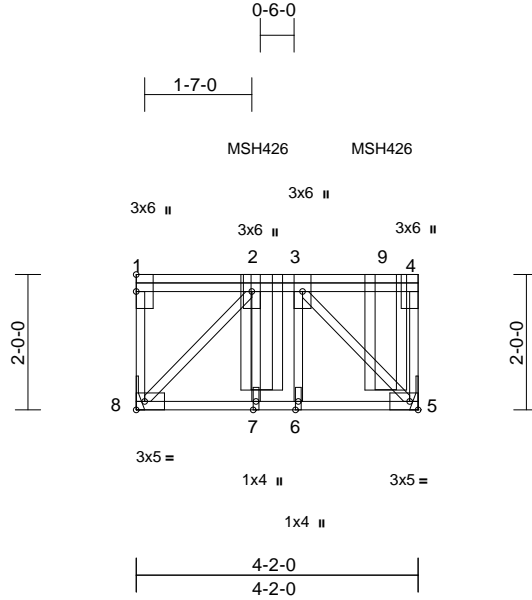
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes),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

Job Q-2000714-1	Truss F1	Truss Type Floor Girder	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271376
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:15  
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Page: 1



Scale = 1:34

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	0.70	Vert(LL)	-0.01	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.27	Vert(CT)	-0.01	7-8	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 35 lb	FT = 20%F, 11%E

**LUMBER**

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

**LUMBER** Uniform Loads (lb/ft)

Vert: 5-8=-10, 1-4=-100  
Concentrated Loads (lb)  
Vert: 2=-947 (F), 9=-976 (F)

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 5= Mechanical, 8= Mechanical  
Max Grav 5=1554 (LC 4), 8=893 (LC 3)

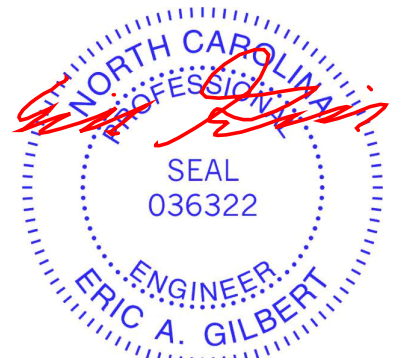
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-8=-111/0, 4-5=-775/0, 1-2=0/0, 2-3=-724/0, 3-9=0/0, 4-9=0/0  
BOT CHORD 7-8=0/724, 6-7=0/724, 5-6=0/724  
WEBS 2-8=-1056/0, 3-5=-1056/0, 2-7=-12/16, 3-6=0/32

**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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) Use USP MSH426 (With 16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 1-10-0 oc max. starting at 1-10-4 from the left end to 3-8-4 to connect truss(es) to front face of top chord.
- 6) Fill all nail holes where hanger is in contact with lumber.
- 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



April 7, 2020

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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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



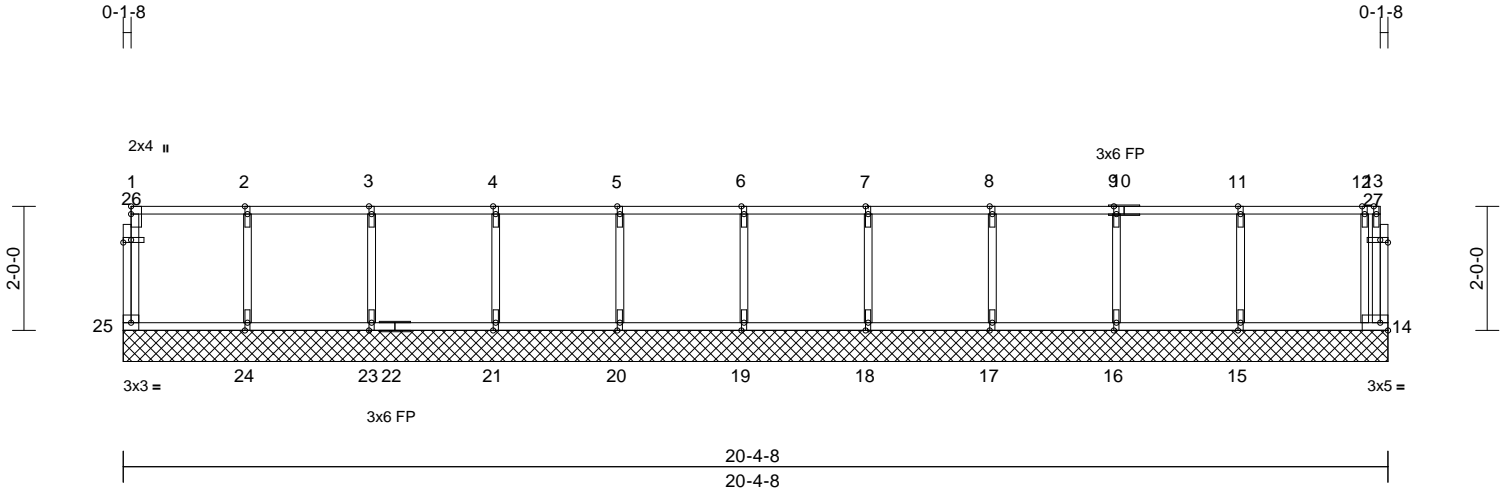
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F2	Truss Type Floor Supported Gable	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271377
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MITek Industries, Inc. Tue Apr 07 13:30:17  
ID:J11hes1\_o5xQRrShy?UHmszXNFU-gKJLIrbdSDFtwSYV751M60wYR5kLQ7ZLtkW5zT5R4

Page: 1



Scale = 1:37.1

Plate Offsets (X, Y): [26:0-1-8,0-0-8], [27:0-1-8,0-0-8]

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 96 lb	FT = 20%F, 11%E

**LUMBER**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP 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.

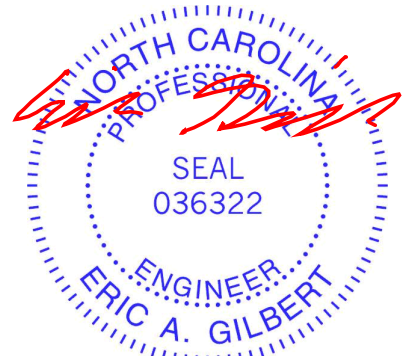
**REACTIONS** (size) 14=20-4-8, 15=20-4-8, 16=20-4-8, 17=20-4-8, 18=20-4-8, 19=20-4-8, 20=20-4-8, 21=20-4-8, 23=20-4-8, 24=20-4-8, 25=20-4-8  
Max Grav 14=118 (LC 1), 15=235 (LC 1), 16=216 (LC 1), 17=221 (LC 1), 18=220 (LC 1), 19=220 (LC 1), 20=220 (LC 1), 21=219 (LC 1), 23=223 (LC 1), 24=210 (LC 1), 25=98 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 25-26=-85/0, 1-26=-85/0, 14-27=0/63, 13-27=0/63, 1-2=-19/0, 2-3=-19/0, 3-4=-19/0, 4-5=-19/0, 5-6=-19/0, 6-7=-19/0, 7-8=-19/0, 8-9=-19/0, 9-10=-19/0, 10-11=-19/0, 11-12=-19/0, 12-13=-4/0  
BOT CHORD 24-25=0/19, 23-24=0/19, 22-23=0/19, 21-22=0/19, 20-21=0/19, 19-20=0/19, 18-19=0/19, 17-18=0/19, 16-17=0/19, 15-16=0/19, 14-15=0/19  
WEBS 2-24=-196/0, 3-23=-201/0, 4-21=-200/0, 5-20=-200/0, 6-19=-200/0, 7-18=-200/0, 8-17=-201/0, 9-16=-197/0, 11-15=-211/0, 12-14=-173/0

**NOTES**  
1) All plates are 1x4 MT20 unless otherwise indicated.  
2) 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 2-0-0 oc.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

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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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



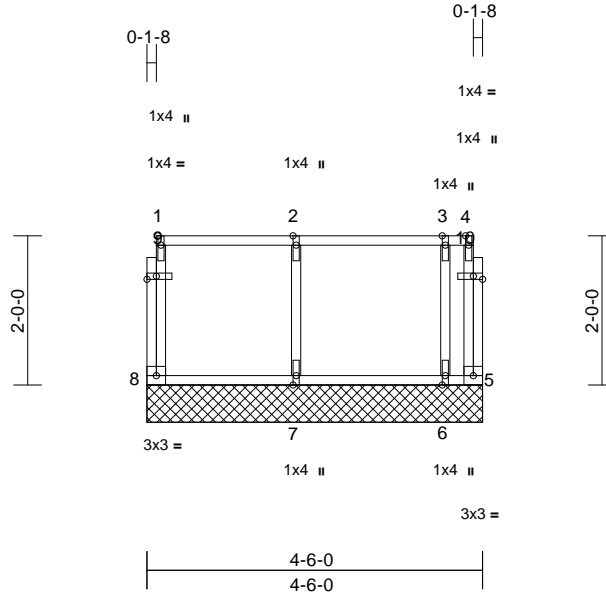
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F3	Truss Type Floor Supported Gable	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271378
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:18  
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Page: 1



Scale = 1:30.9

Plate Offsets (X, Y): [9:0-1-8,0-0-8], [10:0-1-8,0-0-8]

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 28 lb	FT = 20%F, 11%E

**LUMBER**

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

**BRACING**

- TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

- (size) 5=4-6-0, 6=4-6-0, 7=4-6-0, 8=4-6-0
- Max Uplift 5=-7 (LC 1)
- Max Grav 5=-7 (LC 1), 6=145 (LC 1), 7=232 (LC 1), 8=85 (LC 1)

**FORCES**

- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 8-9=-78/0, 1-9=-78/0, 5-10=0/33, 4-10=0/34, 1-2=-10/0, 2-3=-10/0, 3-4=-10/0
- BOT CHORD 7-8=0/10, 6-7=0/10, 5-6=0/10
- WEBS 2-7=-209/0, 3-6=-160/0

**NOTES**

- All plates are 1x4 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 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



April 7, 2020

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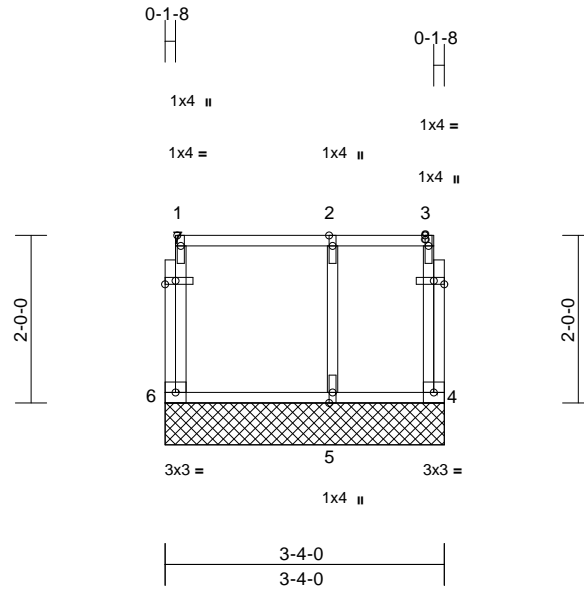
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F4	Truss Type Floor Supported Gable	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271379
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:18  
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Page: 1



Scale = 1:27.5

Plate Offsets (X, Y): [7'-0-1-8,0-0-8], [8'-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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 22 lb	FT = 20%F, 11%E

**LUMBER**

TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)  
 OTHERS 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) 4=3-4-0, 5=3-4-0, 6=3-4-0  
 Max Grav 4=56 (LC 1), 5=177 (LC 1), 6=94 (LC 1)

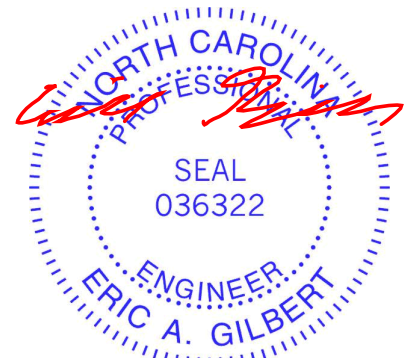
**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 6-7=-86/0, 1-7=-86/0, 4-8=-44/0, 3-8=-44/0, 1-2=-11/0, 2-3=-11/0  
 BOT CHORD 5-6=0/11, 4-5=0/11  
 WEBS 2-5=-166/0

**NOTES**

- 1) Gable requires continuous bottom chord bearing.
- 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 3) Gable studs spaced at 2-0-0 oc.
- 4) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

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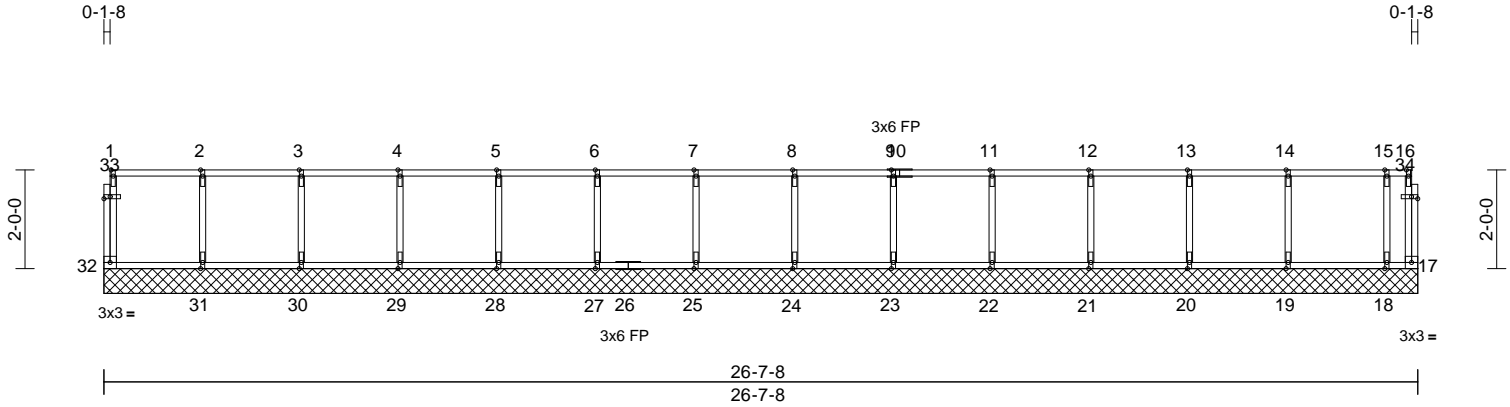
818 Soundside Road  
 Edenton, NC 27932

Job Q-2000714-1	Truss F5	Truss Type Floor Supported Gable	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271380
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:18  
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Scale = 1:46.7

Plate Offsets (X, Y): [33:0-1-8,0-0-8], [34:0-1-8,0-0-8]

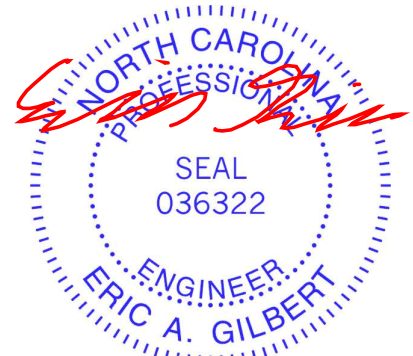
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.15	Horiz(TL)	0.00	17	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 123 lb	FT = 20%F, 11%E

LUMBER	WEBS
TOP CHORD 2x4 SP No.2(flat)	2-31=-200/0, 3-30=-202/0, 4-29=-615/0,
BOT CHORD 2x4 SP No.2(flat)	5-28=-201/0, 6-27=-199/0, 7-25=-200/0,
WEBS 2x4 SP No.3(flat)	8-24=-200/0, 9-23=-200/0, 11-22=-200/0,
OTHERS 2x4 SP No.3(flat)	12-21=-200/0, 13-20=-199/0, 14-19=-205/0,
	15-18=-183/0

BRACING	NOTES
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	1) All plates are 1x4 MT20 unless otherwise indicated.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	2) Gable requires continuous bottom chord bearing.

REACTIONS (size)	NOTES
17=26-7-8, 18=26-7-8, 19=26-7-8, 20=26-7-8, 21=26-7-8, 22=26-7-8, 23=26-7-8, 24=26-7-8, 25=26-7-8, 27=26-7-8, 28=26-7-8, 29=26-7-8, 30=26-7-8, 31=26-7-8, 32=26-7-8	3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
Max Grav 17=373 (LC 1), 18=199 (LC 1), 19=225 (LC 1), 20=219 (LC 1), 21=220 (LC 1), 22=220 (LC 1), 23=220 (LC 1), 24=220 (LC 1), 25=220 (LC 1), 27=219 (LC 1), 28=221 (LC 1), 29=635 (LC 1), 30=222 (LC 1), 31=219 (LC 1), 32=90 (LC 1)	4) Gable studs spaced at 2-0-0 oc.
	5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
	6) Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
	7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

FORCES (lb) - Maximum Compression/Maximum Tension	LOAD CASE(S) Standard
TOP CHORD 32-33=-81/0, 1-33=-81/0, 17-34=-375/0, 16-34=-374/0, 1-2=-12/0, 2-3=-12/0, 3-4=-12/0, 4-5=-12/0, 5-6=-12/0, 6-7=-12/0, 7-8=-12/0, 8-9=-12/0, 9-10=-12/0, 10-11=-12/0, 11-12=-12/0, 12-13=-12/0, 13-14=-12/0, 14-15=-12/0, 15-16=-12/0	1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 17-32=-10, 1-16=-100 Concentrated Loads (lb) Vert: 16=-417, 4=-417
BOT CHORD 31-32=0/12, 30-31=0/12, 29-30=0/12, 28-29=0/12, 27-28=0/12, 26-27=0/12, 25-26=0/12, 24-25=0/12, 23-24=0/12, 22-23=0/12, 21-22=0/12, 20-21=0/12, 19-20=0/12, 18-19=0/12, 17-18=0/12	2) Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 17-32=-10, 1-16=-100 Concentrated Loads (lb) Vert: 16=-417, 4=-417



April 7, 2020

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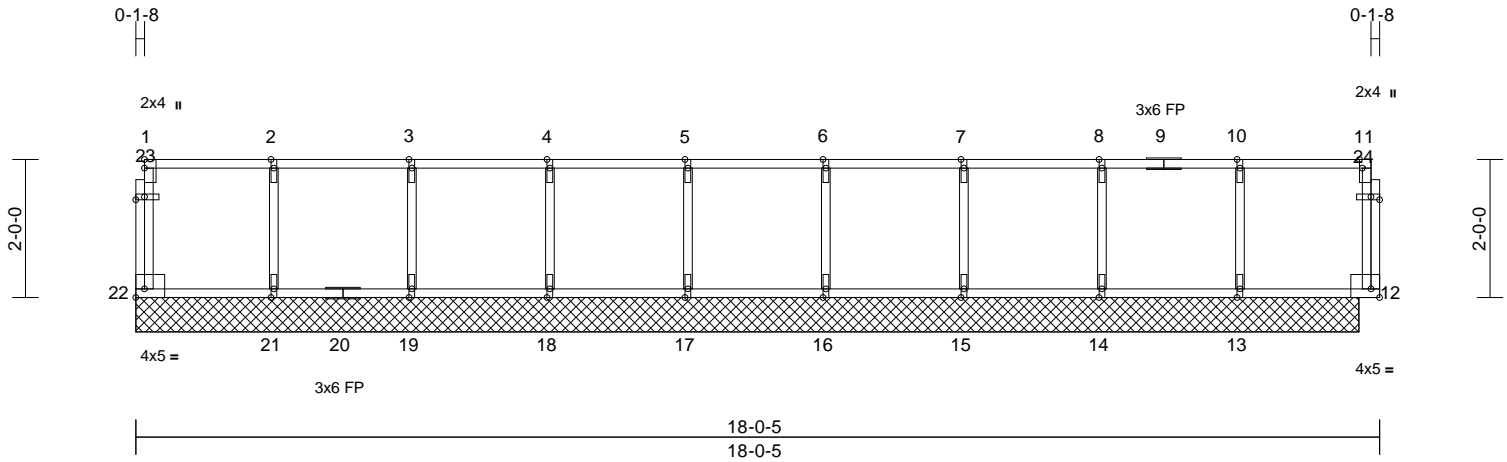
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F6	Truss Type Floor Supported Gable	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271381
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:19  
ID:jbipGu4t40J\_LJBGd72\_OUzXNFR-cir5j\_ts94TNj?4qfw9Z7nBlyL2CCDhQ0fMqzzT5R2

Page: 1



Scale = 1:33.4

Plate Offsets (X, Y): [11:0-1-8,Edge], [12:Edge,0-1-8], [22:Edge,0-1-8], [23:0-1-8,0-0-8], [24:0-1-8,0-0-8]

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	0.41	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.33	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 84 lb	FT = 20%F, 11%E

**LUMBER**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)  
OTHERS 2x4 SP No.3(flat)

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

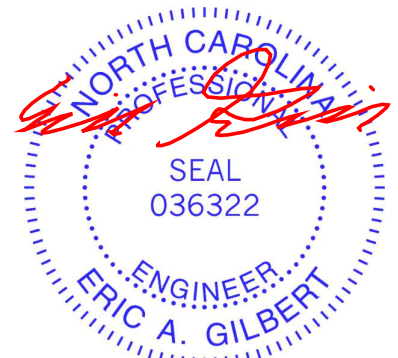
**REACTIONS** (size)  
13=17-8-11, 14=17-8-11,  
15=17-8-11, 16=17-8-11,  
17=17-8-11, 18=17-8-11,  
19=17-8-11, 21=17-8-11,  
22=17-8-11  
Max Grav 13=372 (LC 1), 14=145 (LC 1),  
15=240 (LC 1), 16=215 (LC 1),  
17=220 (LC 1), 18=224 (LC 1),  
19=204 (LC 1), 21=287 (LC 1),  
22=36 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 22-23=-54/0, 1-23=-56/0, 12-24=-37/0,  
11-24=-38/0, 1-2=0/30, 2-3=0/30, 3-4=0/30,  
4-5=0/30, 5-6=0/30, 6-7=0/30, 7-8=0/30,  
8-9=0/30, 9-10=0/30, 10-11=0/30  
BOT CHORD 21-22=-30/0, 20-21=-30/0, 19-20=-30/0,  
18-19=-30/0, 17-18=-30/0, 16-17=-30/0,  
15-16=-30/0, 14-15=-30/0, 13-14=-30/0,  
12-13=-30/0  
WEBS 2-21=-232/0, 3-19=-192/0, 4-18=-202/0,  
5-17=-200/0, 6-16=-198/0, 7-15=-210/0,  
8-14=-163/0, 10-13=-275/0

**NOTES**  
1) All plates are 1x4 MT20 unless otherwise indicated.  
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).  
3) Gable studs spaced at 2-0-0 oc.

- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



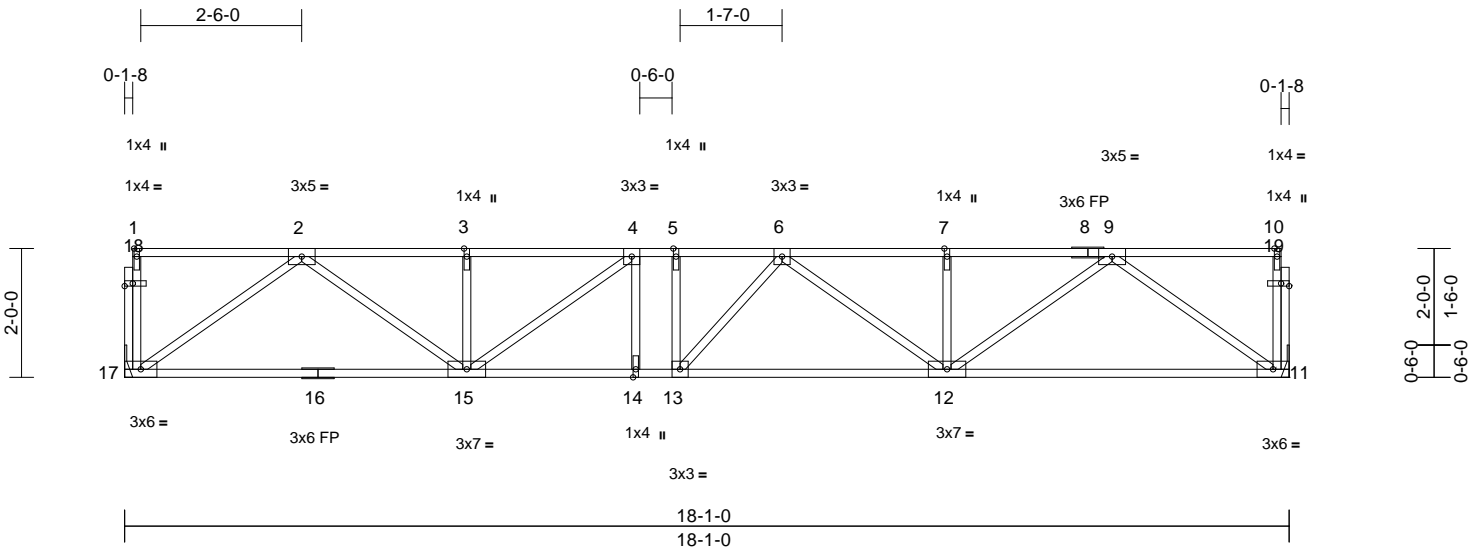
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F7	Truss Type Floor	Qty 2	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271382
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:19  
ID:bjpGu4t40J\_IJBGd72\_OUzXNFR-cir5j\_ts94TNj?4qfw9Z7nBIEly4C7dQ0fMqbzzT5R2

Page: 1



Scale = 1:35.8

Plate Offsets (X, Y): [18:0-1-8,0-0-8], [19:0-1-8,0-0-8]

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	0.39	Vert(LL)	-0.12	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.17	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 104 lb	FT = 20%F, 11%E

**LUMBER**

**LOAD CASE(S)** Standard

- TOP CHORD 2x4 SP No.2(flat)
- BOT CHORD 2x4 SP 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.

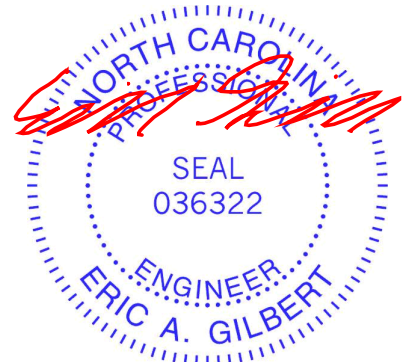
**REACTIONS** (size) 11= Mechanical, 17= Mechanical  
Max Grav 11=975 (LC 1), 17=975 (LC 1)

**FORCES**

- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 17-18=-103/0, 1-18=-103/0, 11-19=-102/0, 10-19=-102/0, 1-2=-3/0, 2-3=-1962/0, 3-4=-1962/0, 4-5=-2321/0, 5-6=-2321/0, 6-7=-1963/0, 7-8=-1963/0, 8-9=-1963/0, 9-10=-3/0
- BOT CHORD 16-17=0/1194, 15-16=0/1194, 14-15=0/2321, 13-14=0/2321, 12-13=0/2310, 11-12=0/1195
- WEBS 9-11=-1464/0, 2-17=-1463/0, 9-12=0/952, 2-15=0/952, 7-12=-251/0, 3-15=-273/0, 6-12=-430/0, 4-15=-549/0, 6-13=-211/269, 4-14=-95/95, 5-13=-88/96

**NOTES**

- Unbalanced floor live loads have been considered for this design.
- All plates are 1x4 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932

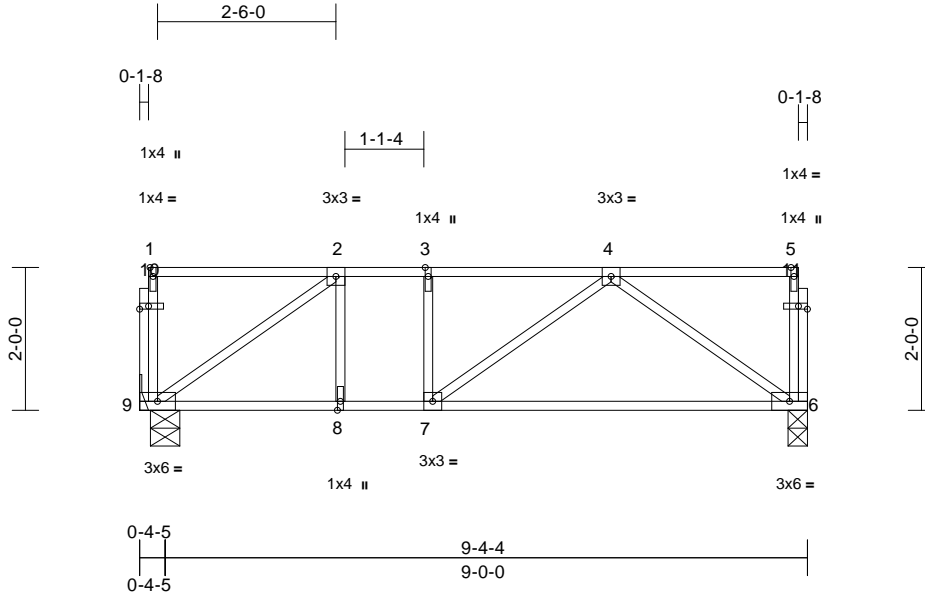


Job Q-2000714-1	Truss F8	Truss Type Floor	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271383
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:19  
ID:bjbpGu4t40J\_LJBGd72\_OUzXNFR-cir5j\_ts94TNj?4qfw9Z7nBFzL?QCBPQ0fMqzzT5R2

Page: 1



Scale = 1:32.3

Plate Offsets (X, Y): [10:0-1-8,0-0-8], [11:0-1-8,0-0-8]

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	0.60	Vert(LL)	-0.11	6-7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.20	6-7	>556	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 56 lb	FT = 20%F, 11%E

**LUMBER**

- TOP CHORD 2x4 SP No.2(flat)
- BOT CHORD 2x4 SP 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** (size) 6=0-3-4, 9= Mechanical  
Max Grav 6=495 (LC 1), 9=495 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 9-10=-109/5, 1-10=-109/5, 6-11=-95/0, 5-11=-95/0, 1-2=-4/0, 2-3=-583/0, 3-4=-583/0, 4-5=-3/0  
BOT CHORD 8-9=0/583, 7-8=0/583, 6-7=0/527  
WEBS 4-6=-643/0, 2-9=-707/0, 4-7=-6/172, 2-8=-7/110, 3-7=-43/0

**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



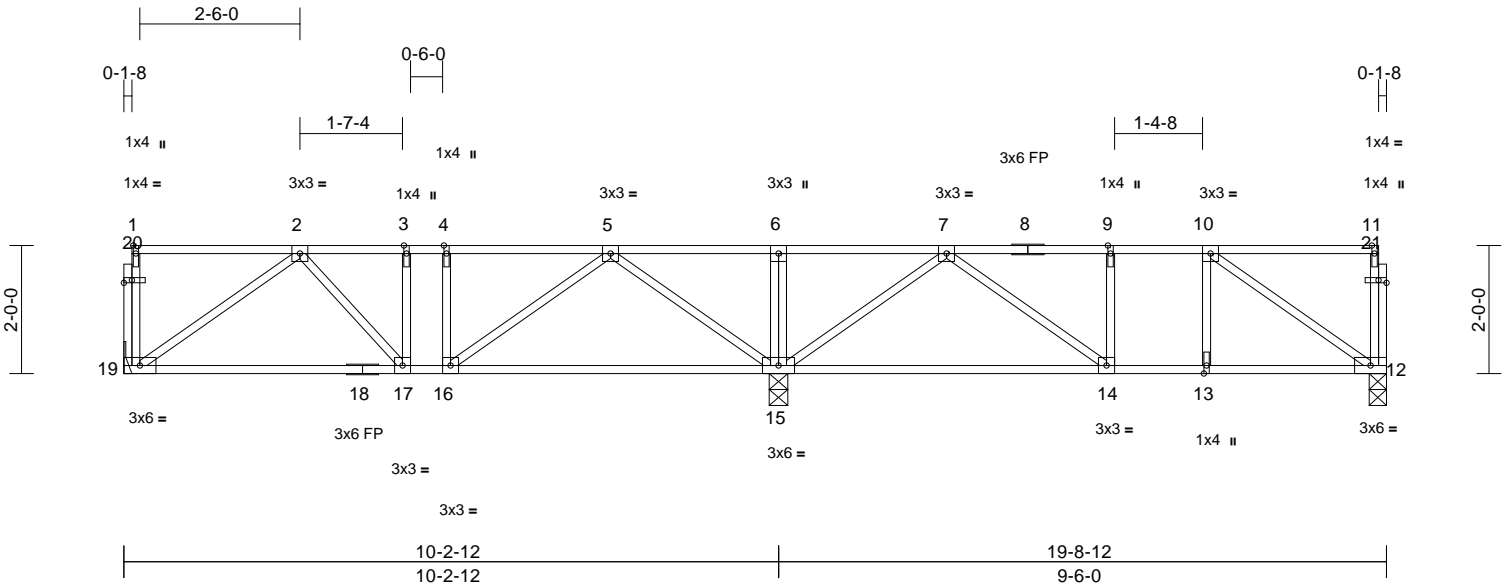
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F9	Truss Type Floor	Qty 2	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271384
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:19  
ID:bjpGu4t40J\_LJBGd72\_OUzXNFR-cir5j\_ts94TNj?4qfw9Z7nBHVL3YCAOQ0fMqzbzT5R2

Page: 1



Scale = 1:36

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

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	0.50	Vert(LL)	0.04	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.31	Vert(CT)	-0.06	14-15	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S								Weight: 115 lb FT = 20%F, 11%E

**LUMBER**

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

- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

**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.

**LOAD CASE(S)** Standard

**REACTIONS** (size)

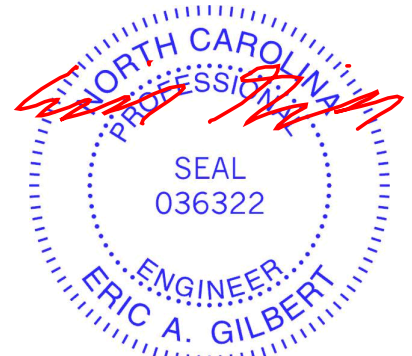
- 12=0-3-4, 15=0-3-8, 19= Mechanical
- Max Grav 12=413 (LC 4), 15=1337 (LC 9), 19=512 (LC 10)

**FORCES** (lb) - Maximum Compression/Maximum Tension

- TOP CHORD 19-20=-106/0, 1-20=-105/0, 12-21=-115/0, 11-21=-115/0, 1-2=-4/0, 2-3=-667/6, 3-4=-667/6, 4-5=-667/6, 5-6=0/720, 6-7=0/720, 7-8=-434/0, 8-9=-434/0, 9-10=-434/0, 10-11=-4/0
- BOT CHORD 18-19=0/550, 17-18=0/550, 16-17=-6/667, 15-16=-202/452, 14-15=-83/202, 13-14=0/434, 12-13=0/434
- WEBS 6-15=-263/0, 5-15=-924/0, 2-19=-672/0, 5-16=0/466, 2-17=-92/176, 3-17=-76/56, 4-16=-245/0, 7-15=-821/0, 10-12=-525/0, 7-14=0/346, 9-14=-182/0, 10-13=-13/37

**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1x4 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



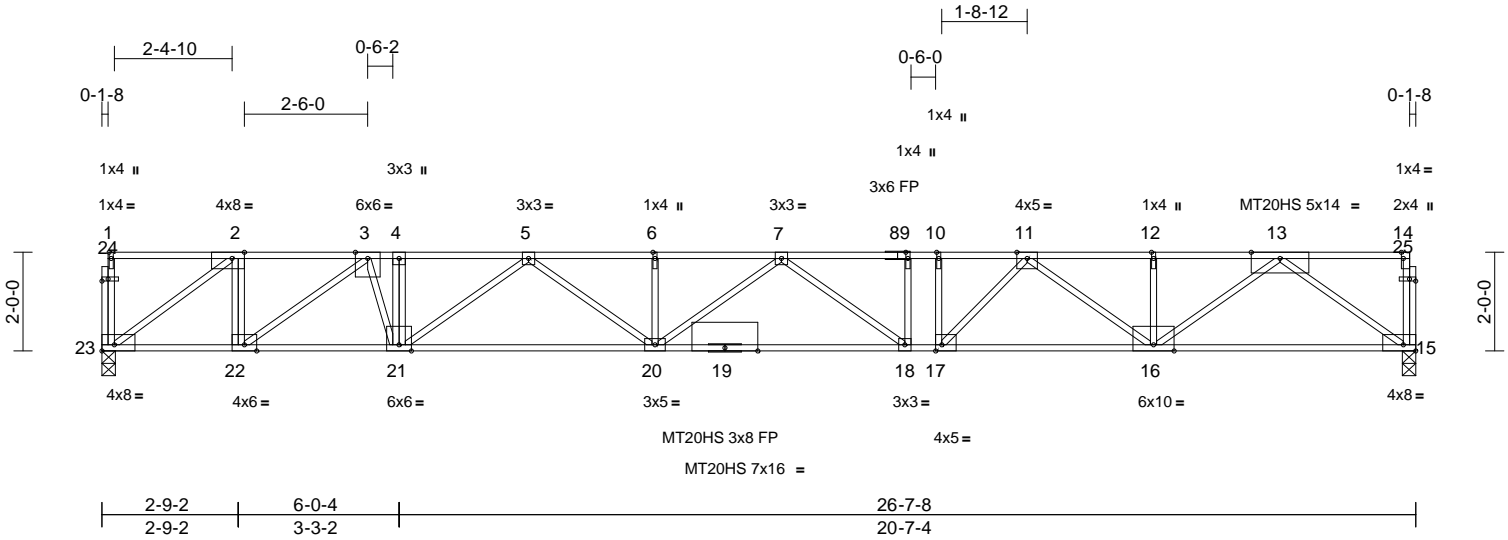
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F10	Truss Type Floor	Qty 13	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271385
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MITek Industries, Inc. Tue Apr 07 13:30:20  
ID:rqTJRW1M1npZphtVOlz2DezXNFV-5vOUwJtUwNbEK9f1Dgof\_kMaIGMxSYZFJ6O7PzT5R1

Page: 1



Scale = 1:46.7

Plate Offsets (X, Y): [2:0-3-0,Edge], [14:0-1-8,Edge], [15:Edge,0-1-8], [17:0-1-8,Edge], [23:Edge,0-1-8], [24:0-1-8,0-0-8], [25:0-1-8,0-0-8]

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	0.87	Vert(LL)	-0.54	18-20	>589	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.82	18-20	>387	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.15	15	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S								
											Weight: 157 lb	FT = 20%F, 11%E

**LUMBER**  
TOP CHORD 2x4 SP DSS(flat)  
BOT CHORD 2x4 SP DSS(flat)  
WEBS 2x4 SP No.3(flat) \*Except\* 23-2:2x4 SP No.2 (flat)  
OTHERS 2x4 SP No.3(flat)

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 15=0-3-4, 23=0-3-4  
Max Grav 15=2503 (LC 1), 23=2120 (LC 1)

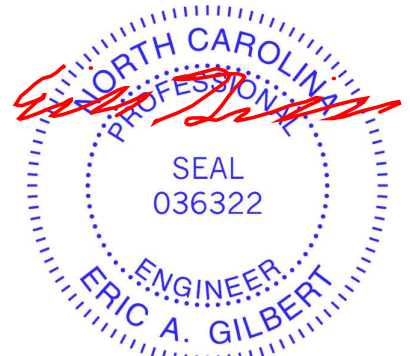
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 23-24=-101/0, 1-24=-101/0, 15-25=-971/0, 14-25=-971/0, 1-2=-3/0, 2-3=-2824/0, 3-4=-5695/0, 4-5=-5684/0, 5-6=-6599/0, 6-7=-6599/0, 7-8=-5830/0, 8-9=-5830/0, 9-10=-5830/0, 10-11=-5830/0, 11-12=-3815/0, 12-13=-3815/0, 13-14=-32/0  
BOT CHORD 22-23=0/2824, 21-22=0/5164, 20-21=0/6339, 19-20=0/6445, 18-19=0/6445, 17-18=0/5830, 16-17=0/5071, 15-16=0/2143  
WEBS 2-22=0/1703, 4-21=-1009/0, 2-23=-3462/0, 3-22=-2876/0, 3-21=0/1606, 5-21=-807/0, 13-15=-2594/0, 5-20=0/323, 13-16=0/2072, 6-20=-229/0, 12-16=-271/0, 7-20=0/425, 11-16=-1556/0, 7-18=-1025/0, 11-17=0/1251, 9-18=0/360, 10-17=-607/0

**NOTES**  
1) Unbalanced floor live loads have been considered for this design.  
2) All plates are MT20 plates unless otherwise indicated.  
3) The Fabrication Tolerance at joint 19 = 11%  
4) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

5) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.  
6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

**LOAD CASE(S)** Standard  
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 15-23=-10, 1-14=-100  
Concentrated Loads (lb)  
Vert: 14=-867, 4=-867  
2) Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 15-23=-10, 1-14=-100  
Concentrated Loads (lb)  
Vert: 14=-867, 4=-867  
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 15-23=-10, 1-10=-100, 10-14=-20  
Concentrated Loads (lb)  
Vert: 14=-867, 4=-867  
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 15-23=-10, 1-9=-20, 9-14=-100  
Concentrated Loads (lb)  
Vert: 14=-867, 4=-867  
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 15-23=-10, 1-10=-100, 10-14=-20  
Concentrated Loads (lb)  
Vert: 14=-867, 4=-867

6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 15-23=-10, 1-9=-20, 9-14=-100  
Concentrated Loads (lb)  
Vert: 14=-867, 4=-867



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



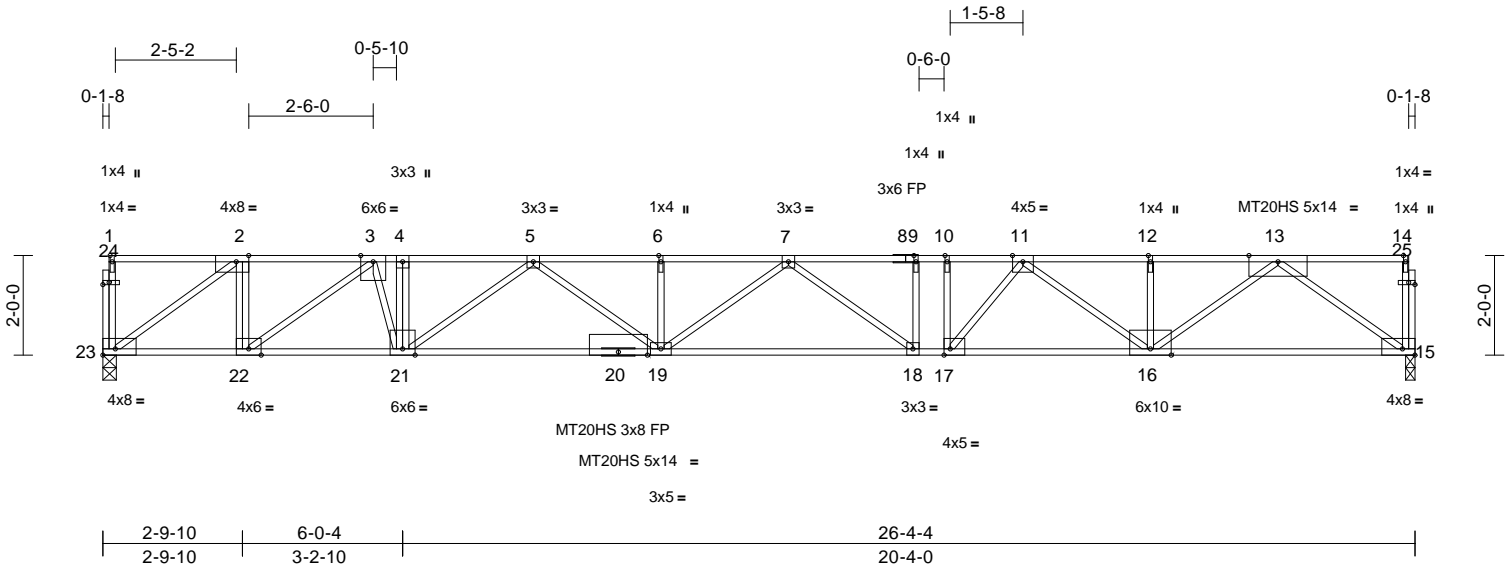
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F11	Truss Type Floor	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271386
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:20  
ID:J11hes1\_o5xQRrShy?UHmszXNFU-5vOUwJtUwNbEK9f1DdgoF\_kNUIHvxTzZFJ6O7PzT5R1

Page: 1



Scale = 1:46.3

Plate Offsets (X, Y): [2:0-3-0,Edge], [15:Edge,0-1-8], [17:0-1-8,Edge], [23:Edge,0-1-8], [24:0-1-8,0-0-8], [25:0-1-8,0-0-8]

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	0.81	Vert(LL)	-0.51	18-19	>614	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.77	18-19	>405	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.15	15	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S								
											Weight: 156 lb	FT = 20%F, 11%E

**LUMBER**  
TOP CHORD 2x4 SP DSS(flat)  
BOT CHORD 2x4 SP DSS(flat)  
WEBS 2x4 SP No.3(flat) \*Except\* 23-2:2x4 SP No.2 (flat)  
OTHERS 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) 15=0-2-4, 23=0-3-4  
Max Grav 15=1789 (LC 1), 23=2157 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 23-24=-104/0, 1-24=-104/0, 15-25=-291/0, 14-25=-291/0, 1-2=-3/0, 2-3=-2919/0, 3-4=-5390/0, 4-5=-5381/0, 5-6=-6306/0, 6-7=-6306/0, 7-8=-5552/0, 8-9=-5552/0, 9-10=-5552/0, 10-11=-5552/0, 11-12=-3698/0, 12-13=-3698/0, 13-14=-10/0  
BOT CHORD 22-23=0/2919, 21-22=0/4962, 20-21=0/6040, 19-20=0/6040, 18-19=0/6158, 17-18=0/5552, 16-17=0/4909, 15-16=0/2072  
WEBS 2-22=0/1490, 4-21=-797/0, 2-23=-3559/0, 3-22=-2510/0, 3-21=0/1375, 5-21=-812/0, 13-15=-2535/0, 5-19=0/330, 13-16=0/2014, 6-19=-230/0, 12-16=-272/0, 7-19=0/407, 11-16=-1501/0, 7-18=-999/0, 11-17=0/1177, 9-18=0/357, 10-17=-628/0

**NOTES**  
1) Unbalanced floor live loads have been considered for this design.  
2) All plates are MT20 plates unless otherwise indicated.  
3) All plates are 1x4 MT20 unless otherwise indicated.  
4) The Fabrication Tolerance at joint 20 = 11%  
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15.

6) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.  
7) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.  
8) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.  
9) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard  
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 15-23=-10, 1-14=-100  
Concentrated Loads (lb)  
Vert: 14=-187, 2=-246, 4=-654  
2) Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 15-23=-10, 1-14=-100  
Concentrated Loads (lb)  
Vert: 14=-187, 2=-246, 4=-654  
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 15-23=-10, 1-10=-100, 10-14=-20  
Concentrated Loads (lb)  
Vert: 14=-187, 2=-246, 4=-654  
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 15-23=-10, 1-9=-20, 9-14=-100  
Concentrated Loads (lb)  
Vert: 14=-187, 2=-246, 4=-654  
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)

Vert: 15-23=-10, 1-10=-100, 10-14=-20  
Concentrated Loads (lb)  
Vert: 14=-187, 2=-246, 4=-654  
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 15-23=-10, 1-9=-20, 9-14=-100  
Concentrated Loads (lb)  
Vert: 14=-187, 2=-246, 4=-654



April 7, 2020

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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 ANSIT/PTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



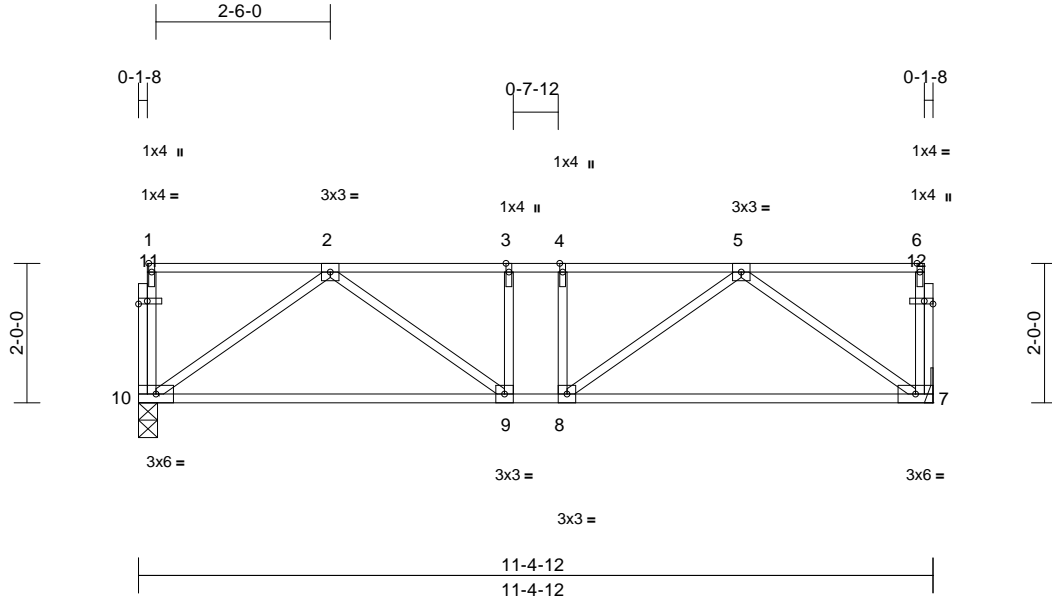
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F12	Truss Type Floor	Qty 8	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271387
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:21  
ID:J11hes1\_o5xQRrShy?UHmszXNFU-Z5ys8fu6hhj5yJEDnLB1CCGch9gog4VJtzrfszT5R0

Page: 1



Scale = 1:33.1

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

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	0.52	Vert(LL)	-0.07	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.15	7-8	>880	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 67 lb	FT = 20%F, 11%E

**LUMBER**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP 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** (size) 7= Mechanical, 10=0-3-4  
Max Grav 7=704 (LC 1), 10=691 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 10-11=-102/0, 1-11=-102/0, 7-12=-98/0, 6-12=-98/0, 1-2=-3/0, 2-3=-1187/0, 3-4=-1187/0, 4-5=-1187/0, 5-6=-3/0  
BOT CHORD 9-10=0/801, 8-9=0/1187, 7-8=0/819  
WEBS 5-7=-1003/0, 2-10=-981/0, 5-8=0/500, 2-9=0/522, 3-9=-218/0, 4-8=-263/0

Uniform Loads (lb/ft)  
Vert: 7-10=-10, 1-6=-100  
Concentrated Loads (lb)  
Vert: 4=-182

2) Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 7-10=-10, 1-6=-100  
Concentrated Loads (lb)  
Vert: 4=-182

3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 7-10=-10, 1-4=-100, 4-6=-20  
Concentrated Loads (lb)  
Vert: 4=-182

4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 7-10=-10, 1-3=-20, 3-6=-100  
Concentrated Loads (lb)  
Vert: 4=-182

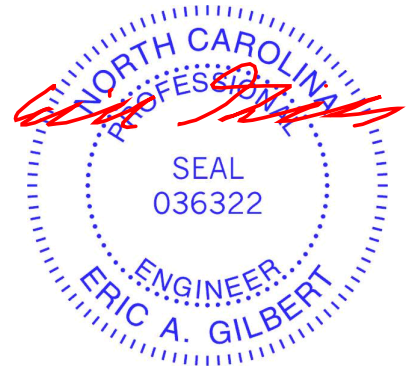
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 7-10=-10, 1-4=-100, 4-6=-20  
Concentrated Loads (lb)  
Vert: 4=-182

6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 7-10=-10, 1-3=-20, 3-6=-100  
Concentrated Loads (lb)  
Vert: 4=-182

**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard  
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00



April 7, 2020

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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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



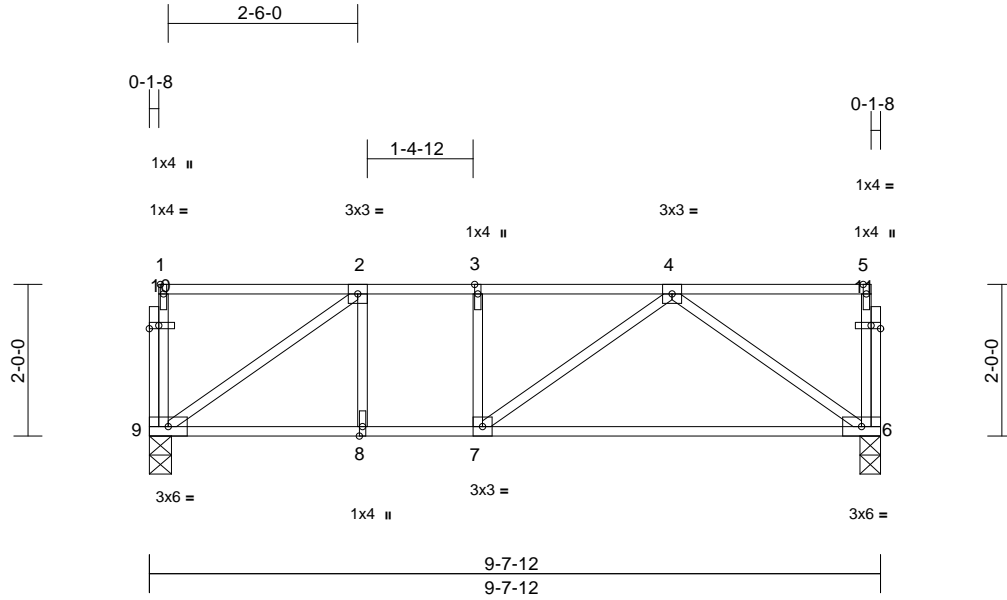
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F13	Truss Type Floor	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271388
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:21  
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Page: 1



Scale = 1:30.4

Plate Offsets (X, Y): [10:0-1-8,0-0-8], [11:0-1-8,0-0-8]

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	0.69	Vert(LL)	-0.14	6-7	>814	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.24	6-7	>475	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

**LUMBER**

TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP 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** (size) 6=0-3-4, 9=0-3-8  
 Max Grav 6=511 (LC 1), 9=511 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 9-10=-107/11, 1-10=-107/11, 6-11=-94/0, 5-11=-94/0, 1-2=-4/0, 2-3=-617/0, 3-4=-617/0, 4-5=-3/0  
 BOT CHORD 8-9=0/617, 7-8=0/617, 6-7=0/548  
 WEBS 4-6=-670/0, 2-9=-748/0, 4-7=0/191, 2-8=0/116, 3-7=-58/0

**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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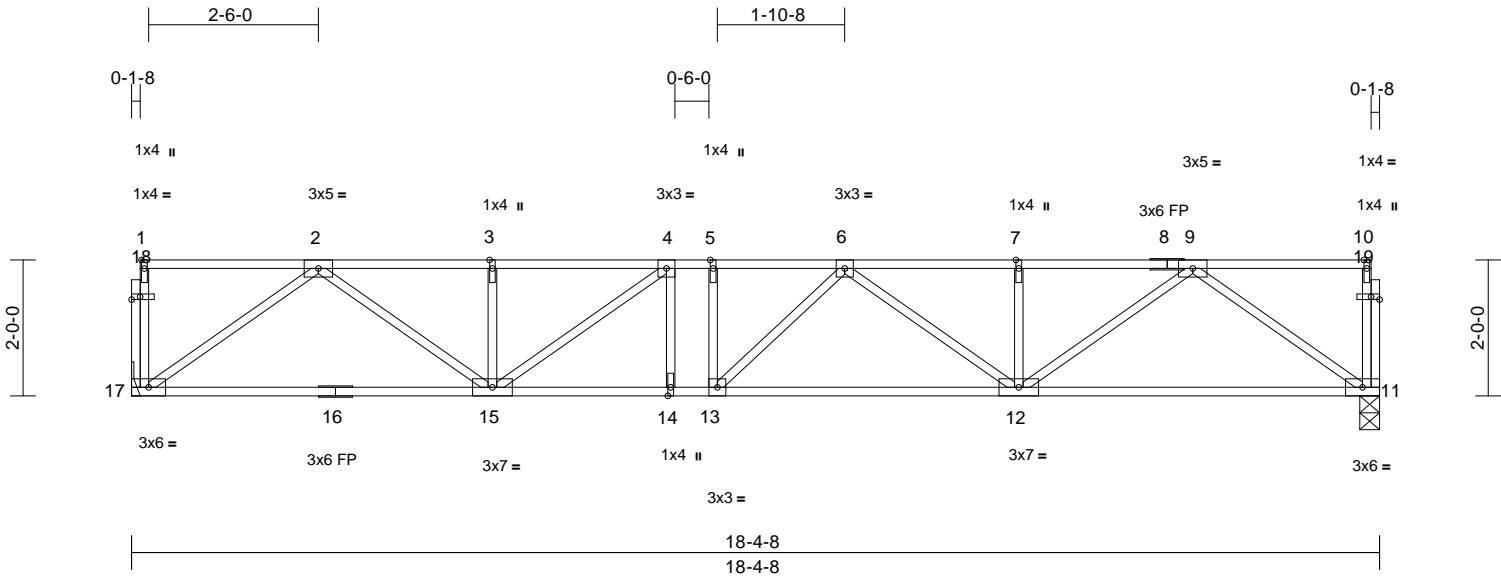
818 Soundside Road  
 Edenton, NC 27932

Job Q-2000714-1	Truss F14	Truss Type Floor	Qty 8	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271389
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:21  
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Page: 1



Scale = 1:33.9

Plate Offsets (X, Y): [18:0-1-8,0-0-8], [19:0-1-8,0-0-8]

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	0.40	Vert(LL)	-0.13	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.20	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S								
											Weight: 106 lb	FT = 20%F, 11%E

**LUMBER** LOAD CASE(S) Standard

- TOP CHORD 2x4 SP No.2(flat)
- BOT CHORD 2x4 SP 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** (size) 11=0-3-8, 17= Mechanical  
Max Grav 11=991 (LC 1), 17=991 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension

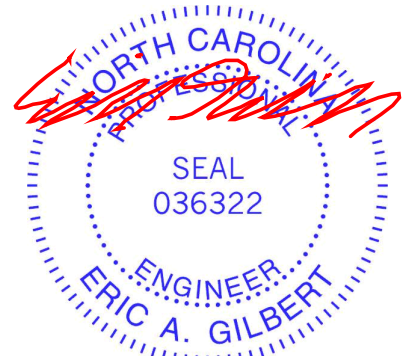
- TOP CHORD 17-18=-103/0, 1-18=-103/0, 11-19=-102/0, 10-19=-102/0, 1-2=-3/0, 2-3=-2005/0, 3-4=-2005/0, 4-5=-2394/0, 5-6=-2394/0, 6-7=-2007/0, 7-8=-2007/0, 8-9=-2007/0, 9-10=-3/0

- BOT CHORD 16-17=0/1216, 15-16=0/1216, 14-15=0/2394, 13-14=0/2394, 12-13=0/2377, 11-12=0/1218

- WEBS 9-11=-1492/0, 2-17=-1491/0, 9-12=0/978, 2-15=0/977, 7-12=-248/0, 3-15=-272/0, 6-12=-458/0, 4-15=-583/0, 6-13=-211/280, 4-14=-95/110, 5-13=-80/74

**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1x4 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



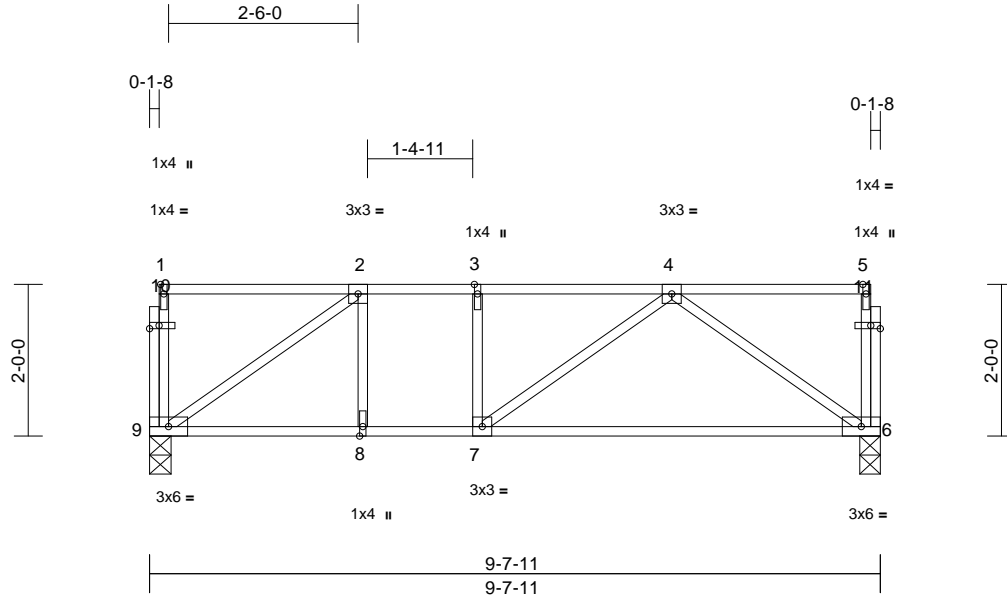
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F15	Truss Type Floor	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271390
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:21  
ID: J11hes1\_o5xQRrShy?UHmszXNFU-Z5ys8fu6hhj5yJEDnLB1CCGa69fdg5ijTzrxfszT5R0

Page: 1



Scale = 1:30.4

Plate Offsets (X, Y): [10:0-1-8,0-0-8], [11:0-1-8,0-0-8]

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	0.69	Vert(LL)	-0.14	6-7	>819	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.24	6-7	>477	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

**LUMBER**

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

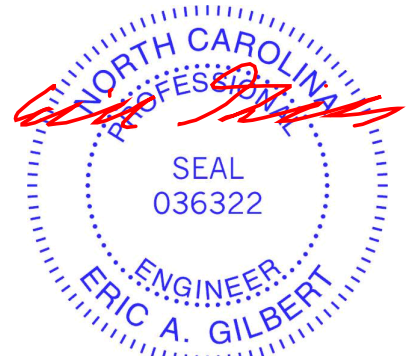
**REACTIONS** (size) 6=0-3-4, 9=0-3-6  
 Max Grav 6=510 (LC 1), 9=510 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 9-10=-107/11, 1-10=-107/11, 6-11=-94/0, 5-11=-94/0, 1-2=-4/0, 2-3=-616/0, 3-4=-616/0, 4-5=-3/0  
 BOT CHORD 8-9=0/616, 7-8=0/616, 6-7=0/548  
 WEBS 4-6=-669/0, 2-9=-747/0, 4-7=0/190, 2-8=0/116, 3-7=-57/0

**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
 Edenton, NC 27932

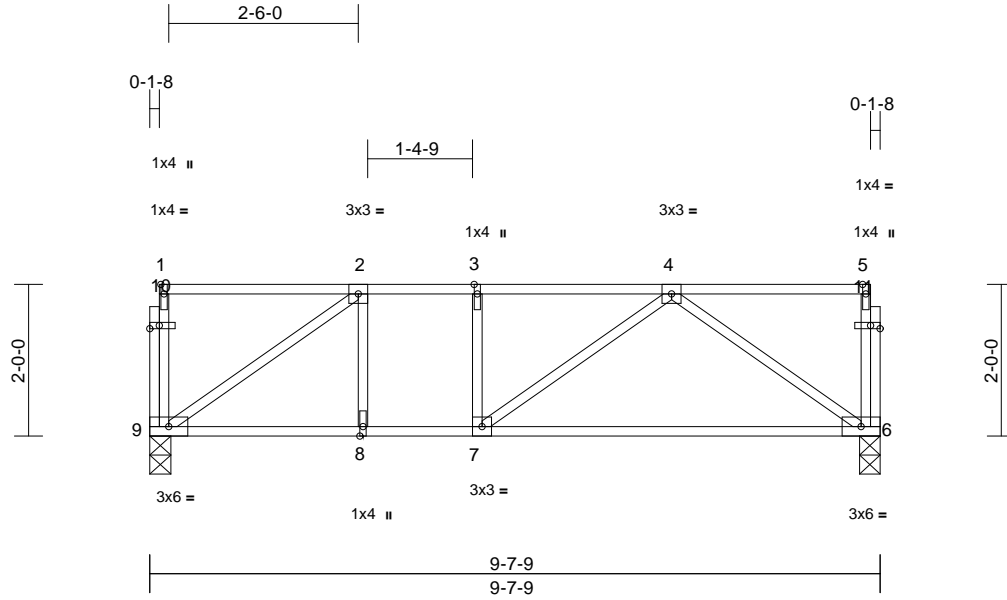


Job Q-2000714-1	Truss F16	Truss Type Floor	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271391
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:22  
ID:J11hes1\_o5xQRrShy?UHmszXNFU-1HWEL?vkS?ryaTpPL2iGkPpluZ\_uPYysidBUClzT5R?

Page: 1



Scale = 1:30.4

Plate Offsets (X, Y): [10:0-1-8,0-0-8], [11:0-1-8,0-0-8]

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	0.68	Vert(LL)	-0.14	6-7	>822	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.24	6-7	>478	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

**LUMBER**

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

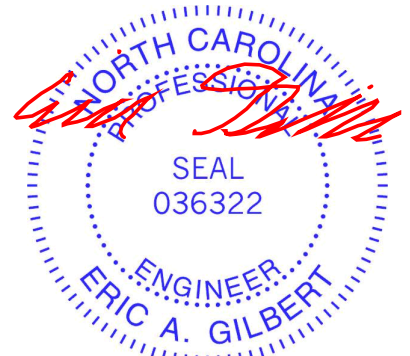
**REACTIONS** (size) 6=0-3-4, 9=0-3-5  
 Max Grav 6=510 (LC 1), 9=510 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 9-10=-107/11, 1-10=-107/11, 6-11=-94/0, 5-11=-94/0, 1-2=-4/0, 2-3=-615/0, 3-4=-615/0, 4-5=-3/0  
 BOT CHORD 8-9=0/615, 7-8=0/615, 6-7=0/547  
 WEBS 4-6=-669/0, 2-9=-747/0, 4-7=0/190, 2-8=0/116, 3-7=-57/0

**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



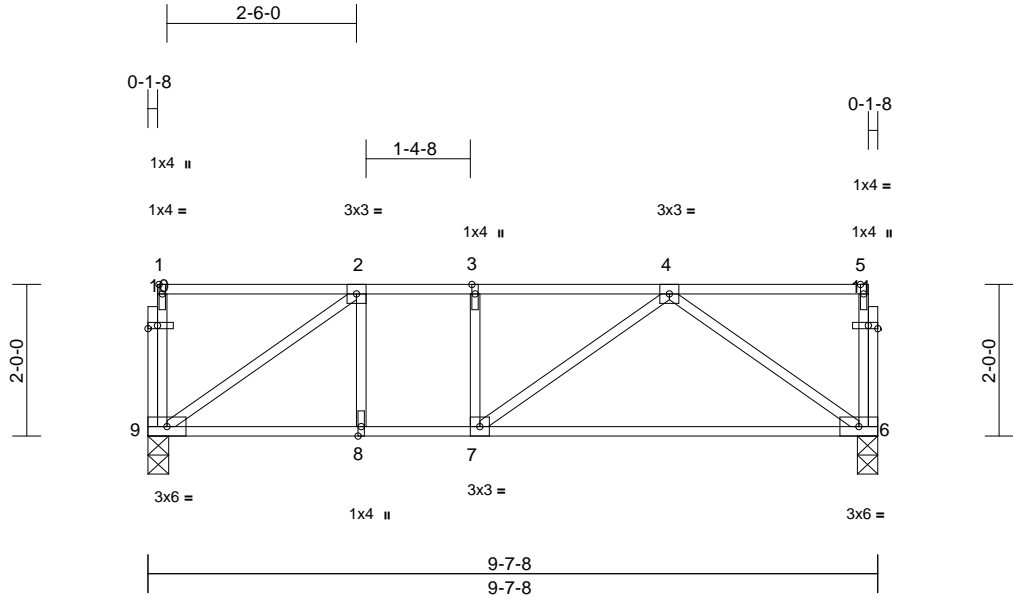
818 Soundside Road  
 Edenton, NC 27932

Job Q-2000714-1	Truss F17	Truss Type Floor	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271392
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:22  
ID: J11hes1\_o5xQRrShy?UHmszXNFU-1HWEL?vkS?ryaTpPL2iGkPplwZ\_wPYysidbUCIzT5R?

Page: 1



Scale = 1:30.4

Plate Offsets (X, Y): [10:0-1-8,0-0-8], [11:0-1-8,0-0-8]

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	0.68	Vert(LL)	-0.14	6-7	>825	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.23	6-7	>480	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

**LUMBER**  
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)  
OTHERS 2x4 SP No.3(flat)

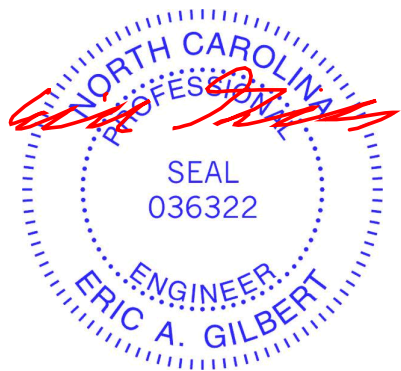
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 6=0-3-4, 9=0-3-4  
Max Grav 6=509 (LC 1), 9=509 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 9-10=-107/11, 1-10=-107/11, 6-11=-94/0, 5-11=-94/0, 1-2=-4/0, 2-3=-615/0, 3-4=-615/0, 4-5=-3/0  
BOT CHORD 8-9=0/615, 7-8=0/615, 6-7=0/547  
WEBS 4-6=-668/0, 2-9=-746/0, 4-7=0/189, 2-8=0/116, 3-7=-57/0

**NOTES**  
1) Unbalanced floor live loads have been considered for this design.  
2) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.  
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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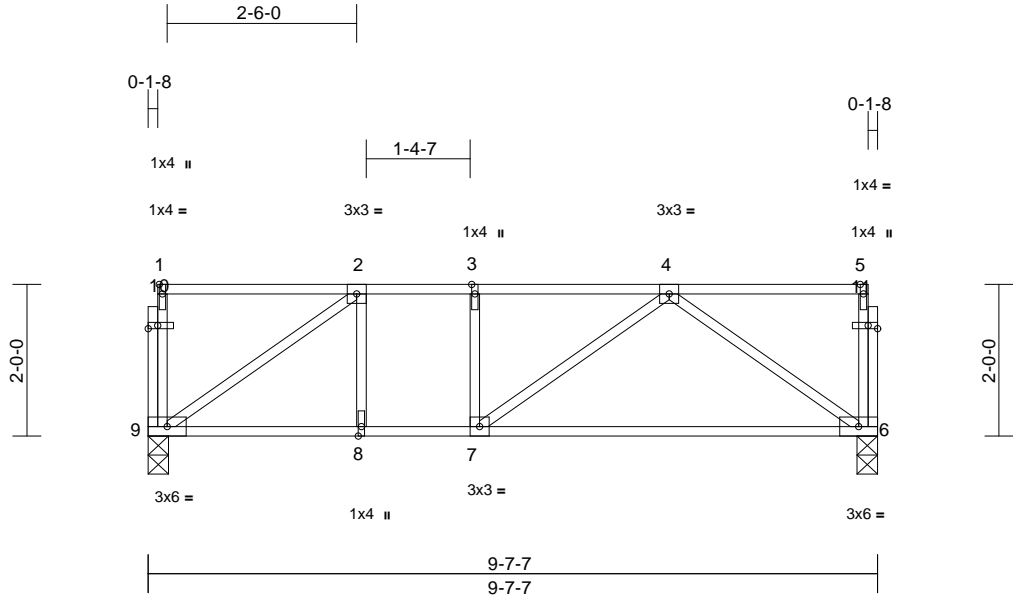
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F18	Truss Type Floor	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271393
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:22  
ID:J11hes1\_o5xQRrShy?UHmszXNFU-1HWEL?vkS?ryaTpPL2iGkPplyZ\_xPYysidbUCIzT5R?

Page: 1



Scale = 1:30.4

Plate Offsets (X, Y): [10:0-1-8,0-0-8], [11:0-1-8,0-0-8]

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	0.68	Vert(LL)	-0.14	6-7	>829	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.23	6-7	>481	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

**LUMBER**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)  
 OTHERS 2x4 SP No.3(flat)

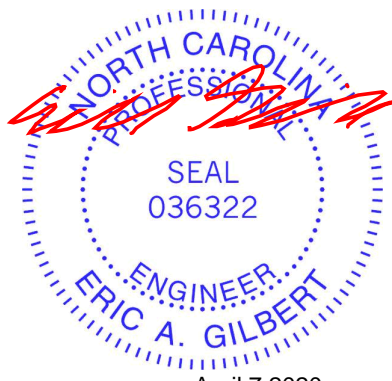
**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 6=0-3-4, 9=0-3-3  
 Max Grav 6=509 (LC 1), 9=509 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 9-10=-107/11, 1-10=-107/11, 6-11=-94/0, 5-11=-94/0, 1-2=-4/0, 2-3=-614/0, 3-4=-614/0, 4-5=-3/0  
 BOT CHORD 8-9=0/614, 7-8=0/614, 6-7=0/546  
 WEBS 4-6=-668/0, 2-9=-745/0, 4-7=0/189, 2-8=0/116, 3-7=-56/0

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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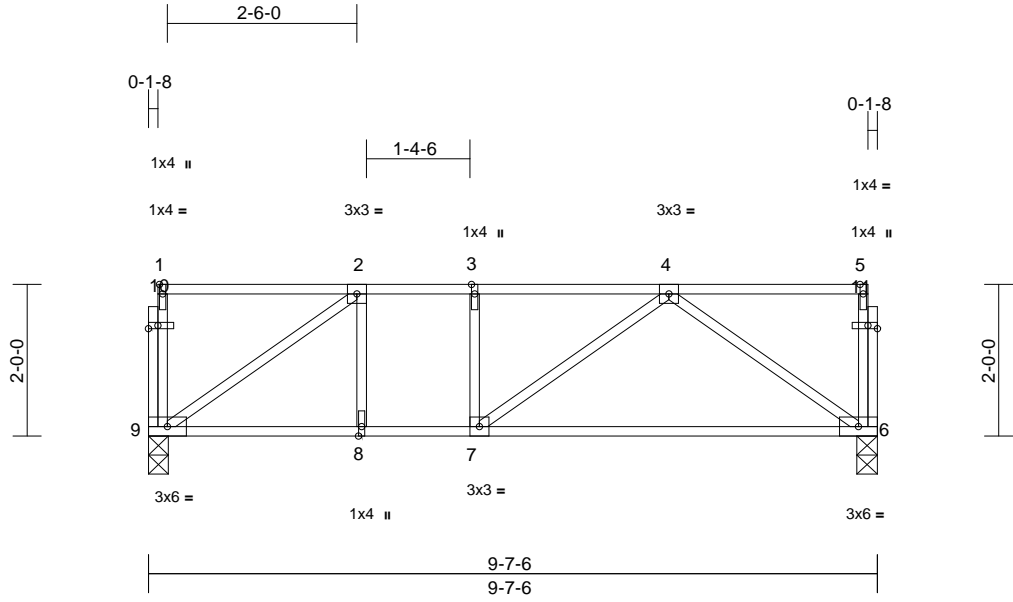
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F19	Truss Type Floor	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271394
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:22  
ID:J11hes1\_o5xQRrShy?UHmszXNFU-1HWEL?vkS?ryaTpPL2iGkPplzZ\_zPYzsidbUCIzT5R?

Page: 1



Scale = 1:30.4

Plate Offsets (X, Y): [10:0-1-8,0-0-8], [11:0-1-8,0-0-8]

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	0.68	Vert(LL)	-0.14	6-7	>832	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.23	6-7	>483	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

**LUMBER**  
 TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP No.2(flat)  
 WEBS 2x4 SP No.3(flat)  
 OTHERS 2x4 SP No.3(flat)

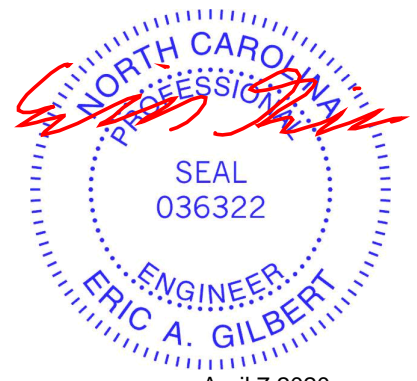
**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 6=0-3-4, 9=0-3-2  
 Max Grav 6=509 (LC 1), 9=509 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 9-10=-108/10, 1-10=-107/10, 6-11=-94/0, 5-11=-94/0, 1-2=-4/0, 2-3=-613/0, 3-4=-613/0, 4-5=-3/0  
 BOT CHORD 8-9=0/613, 7-8=0/613, 6-7=0/546  
 WEBS 4-6=-667/0, 2-9=-744/0, 4-7=0/189, 2-8=0/116, 3-7=-56/0

**NOTES**  
 1) Unbalanced floor live loads have been considered for this design.  
 2) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.  
 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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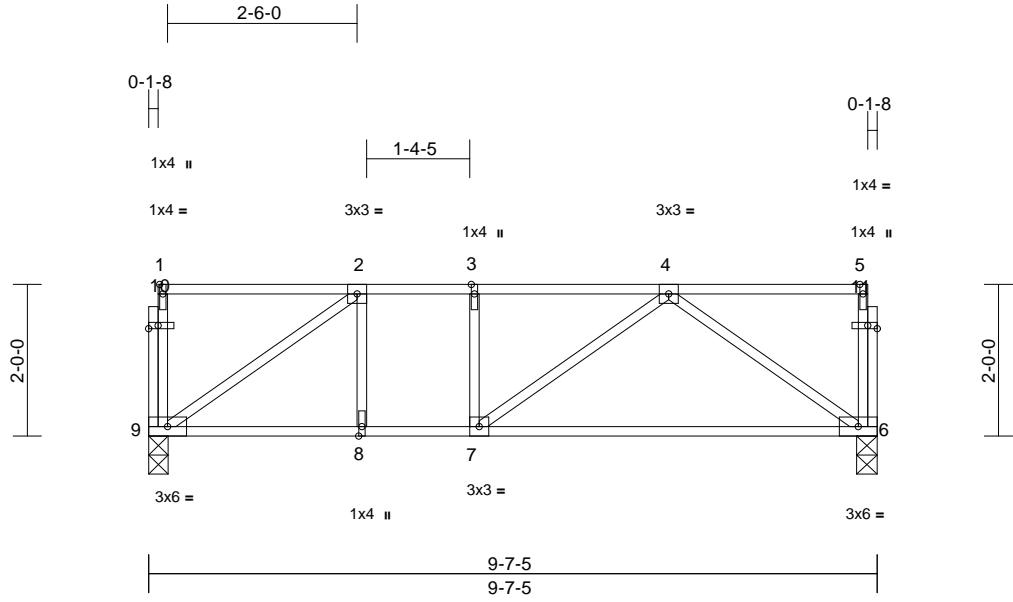
818 Soundside Road  
 Edenton, NC 27932

Job Q-2000714-1	Truss F20	Truss Type Floor	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271395
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:23  
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Page: 1



Scale = 1:30.4

Plate Offsets (X, Y): [10:0-1-8,0-0-8], [11:0-1-8,0-0-8]

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	0.68	Vert(LL)	-0.13	6-7	>835	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.23	6-7	>484	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

**LUMBER**

- TOP CHORD 2x4 SP No.2(flat)
- BOT CHORD 2x4 SP 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.

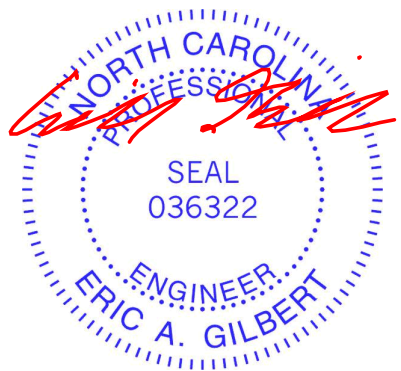
- REACTIONS** (size) 6=0-3-4, 9=0-3-1  
Max Grav 6=509 (LC 1), 9=509 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 9-10=-108/10, 1-10=-107/10, 6-11=-94/0, 5-11=-94/0, 1-2=-4/0, 2-3=-613/0, 3-4=-613/0, 4-5=-3/0  
BOT CHORD 8-9=0/613, 7-8=0/613, 6-7=0/546  
WEBS 4-6=-667/0, 2-9=-743/0, 4-7=0/188, 2-8=0/116, 3-7=-56/0

**NOTES**

- Unbalanced floor live loads have been considered for this design.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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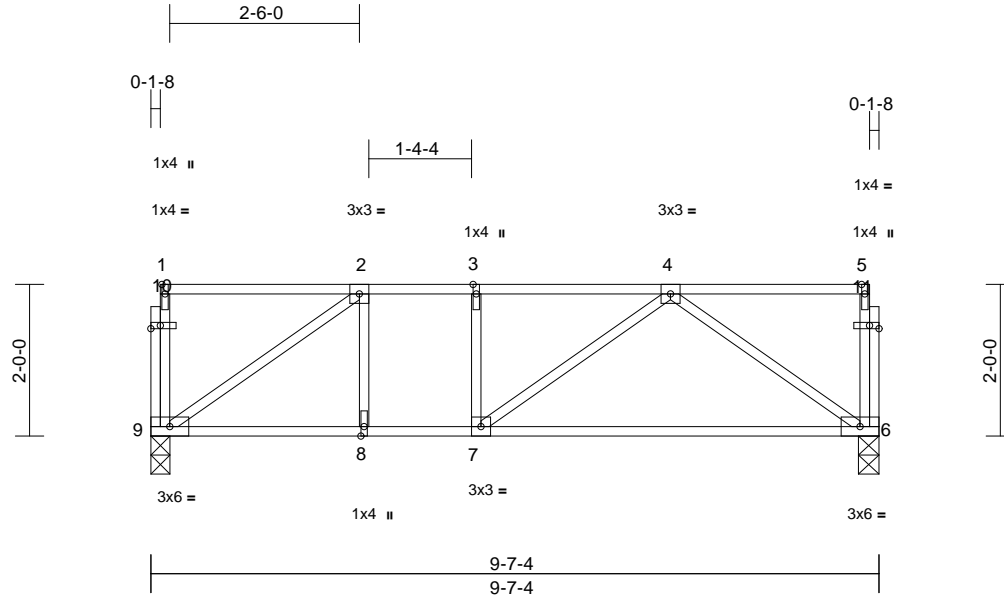
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F21	Truss Type Floor	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271396
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:23  
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Page: 1



Scale = 1:30.4

Plate Offsets (X, Y): [10:0-1-8,0-0-8], [11:0-1-8,0-0-8]

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	0.68	Vert(LL)	-0.13	6-7	>839	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.23	6-7	>485	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

**LUMBER**

TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP 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** (size) 6=0-3-4, 9=0-3-0  
Max Grav 6=508 (LC 1), 9=508 (LC 1)

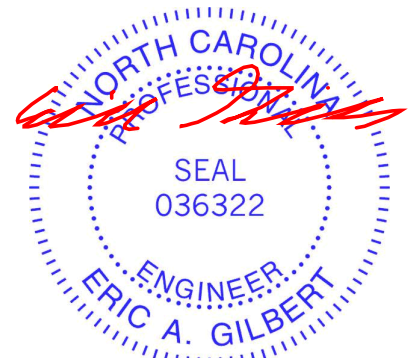
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 9-10=-108/10, 1-10=-108/10, 6-11=-94/0, 5-11=-94/0, 1-2=-4/0, 2-3=-612/0, 3-4=-612/0, 4-5=-3/0

BOT CHORD 8-9=0/612, 7-8=0/612, 6-7=0/545  
WEBS 4-6=-666/0, 2-9=-743/0, 4-7=0/188, 2-8=0/116, 3-7=-56/0

**NOTES**

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

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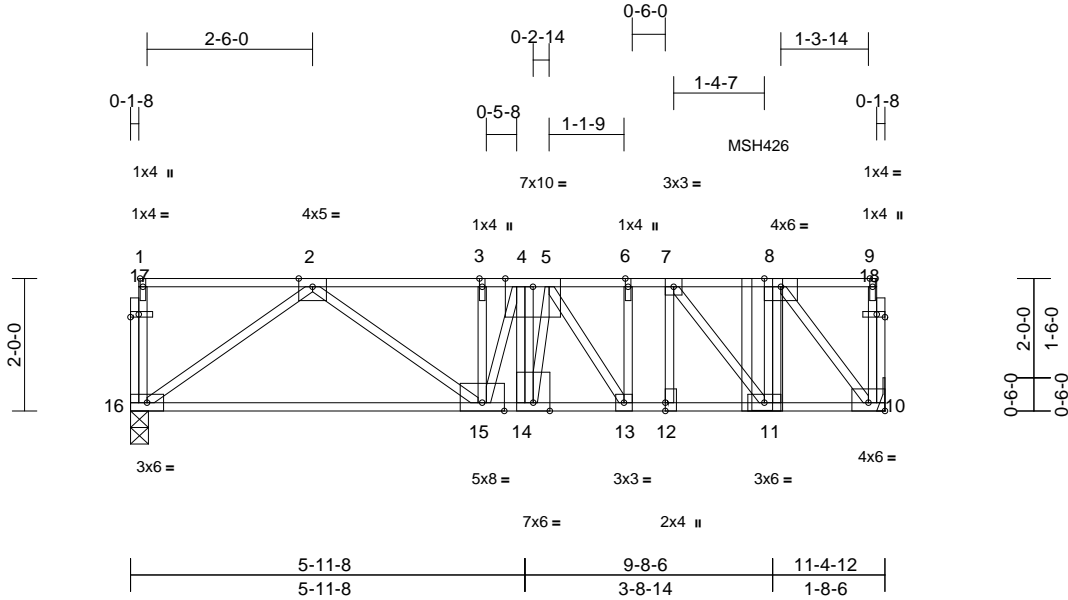
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F22	Truss Type Floor Girder	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271397
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:24  
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Page: 1



Scale = 1:34.8

Plate Offsets (X, Y): [10:Edge,0-1-8], [12:0-1-8,Edge], [17:0-1-8,0-0-8], [18:0-1-8,0-0-8]

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	0.74	Vert(LL)	-0.06	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.11	15-16	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 86 lb	FT = 20%F, 11%E

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

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

- REACTIONS** (size) 10= Mechanical, 16=0-3-4  
Max Grav 10=1759 (LC 1), 16=1148 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 16-17=-101/0, 1-17=-101/0, 10-18=-75/0, 9-18=-75/0, 1-2=-3/0, 2-3=-2433/0, 3-4=-2433/0, 4-5=-2585/0, 5-6=-2097/0, 6-7=-2097/0, 7-8=-1394/0, 8-9=-3/0
  - BOT CHORD 15-16=0/1439, 14-15=0/2585, 13-14=0/2533, 12-13=0/2097, 11-12=0/2097, 10-11=0/1394
  - WEBS 4-14=-198/0, 8-11=0/772, 2-16=-1764/0, 2-15=0/1232, 3-15=-250/0, 4-15=-564/0, 7-11=-1100/0, 5-14=0/292, 5-13=-856/0, 6-13=0/342, 7-12=0/402, 8-10=-2166/0

- NOTES**
- Unbalanced floor live loads have been considered for this design.
  - Refer to girder(s) for truss to truss connections.
  - This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

- CAUTION, Do not erect truss backwards.
- Use USP MSH426 (With 16d nails into Girder & 6-16d nails into Truss) or equivalent at 9-6-8 from the left end to connect truss(es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- 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 (lb/ft)  
Vert: 10-16=-10, 1-9=-100  
Concentrated Loads (lb)  
Vert: 4=-900, 8=-793 (F)
  - Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 10-16=-10, 1-9=-100  
Concentrated Loads (lb)  
Vert: 4=-900, 8=-793 (F)
  - 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 10-16=-10, 1-7=-100, 7-9=-20  
Concentrated Loads (lb)  
Vert: 4=-900, 8=-873 (F)
  - 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 10-16=-10, 1-6=-20, 6-9=-100  
Concentrated Loads (lb)  
Vert: 4=-900, 8=-873 (F)
  - 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 10-16=-10, 1-7=-100, 7-9=-20  
Concentrated Loads (lb)  
Vert: 4=-900, 8=-873 (F)

- 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 10-16=-10, 1-6=-20, 6-9=-100  
Concentrated Loads (lb)  
Vert: 4=-900, 8=-873 (F)



April 7, 2020

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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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



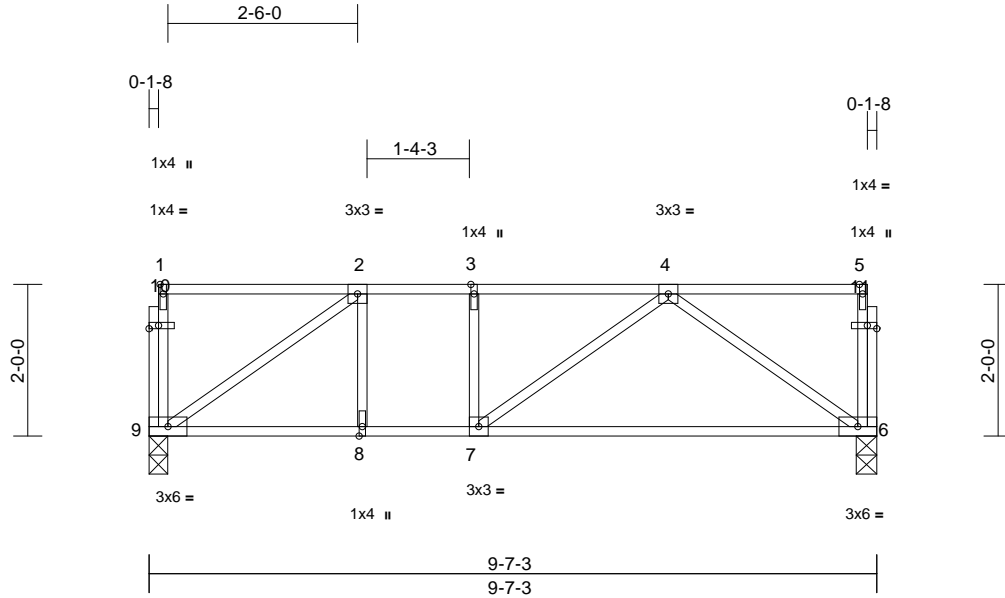
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F23	Truss Type Floor	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271398
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:24  
ID:nDb3sC2cZP3H3?1uWi0WI3zXNFT-zge\_mhx\_c5gpmYoSTlkqu5ZMgWtST9Ax4bFBzT5Qz

Page: 1



Scale = 1:30.4

Plate Offsets (X, Y): [10:0-1-8,0-0-8], [11:0-1-8,0-0-8]

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	0.67	Vert(LL)	-0.13	6-7	>842	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.23	6-7	>487	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%F, 11%E

**LUMBER**

- TOP CHORD 2x4 SP No.2(flat)
- BOT CHORD 2x4 SP 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.

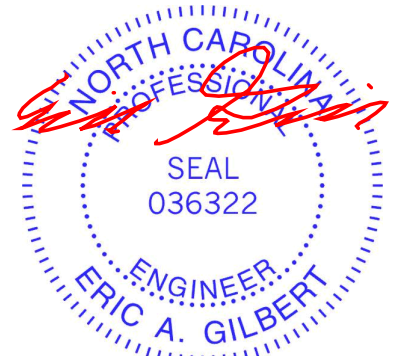
- REACTIONS** (size) 6=0-3-4, 9=0-2-15  
Max Grav 6=508 (LC 1), 9=508 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 9-10=-108/10, 1-10=-108/10, 6-11=-94/0, 5-11=-94/0, 1-2=-4/0, 2-3=-611/0, 3-4=-611/0, 4-5=-3/0
  - BOT CHORD 8-9=0/611, 7-8=0/611, 6-7=0/545
  - WEBS 4-6=-666/0, 2-9=-742/0, 4-7=0/187, 2-8=0/115, 3-7=-55/0

**NOTES**

- Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

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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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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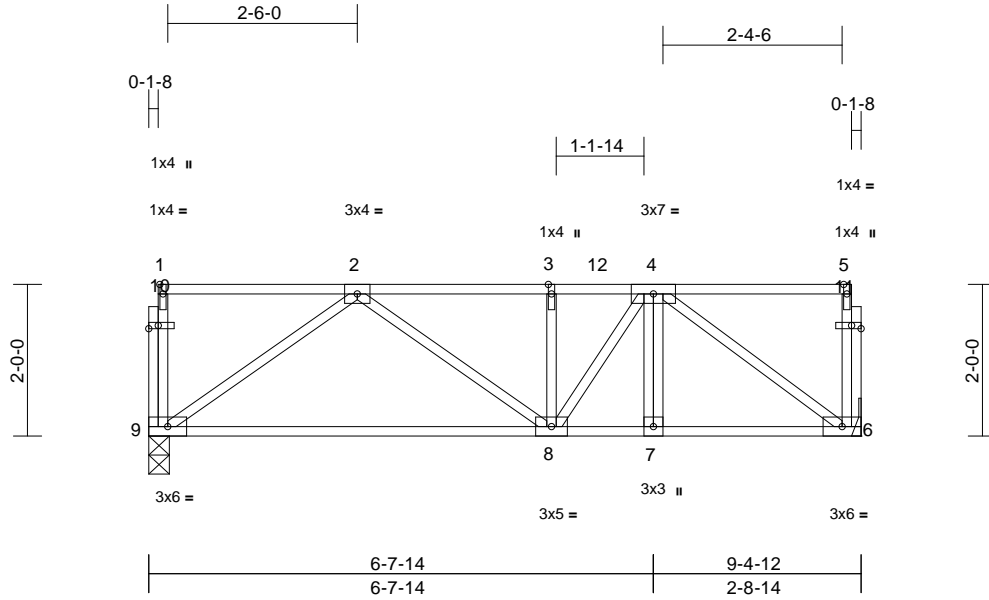


Job Q-2000714-1	Truss F24	Truss Type Floor	Qty 2	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271399
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:24  
ID:nDb3sC2cZP3H3?1uWI0WI3zXNFT-zge\_mhx\_c5gpmYoSTlkqqu6FMiEtOY9Ax4bFBzT5Qz

Page: 1



Scale = 1:30.4

Plate Offsets (X, Y): [10:0-1-8,0-0-8], [11:0-1-8,0-0-8]

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	0.63	Vert(LL)	-0.02	8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.09	8-9	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.02	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 62 lb	FT = 20%F, 11%E

**LUMBER**

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

- Vert: 6-9=-10, 1-5=-100
- Concentrated Loads (lb)
- Vert: 12=-862
- 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (lb/ft)
- Vert: 6-9=-10, 1-5=-100
- Concentrated Loads (lb)
- Vert: 12=-862

**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) 6= Mechanical, 9=0-3-4
- Max Grav 6=1047 (LC 1), 9=809 (LC 1)

**FORCES**

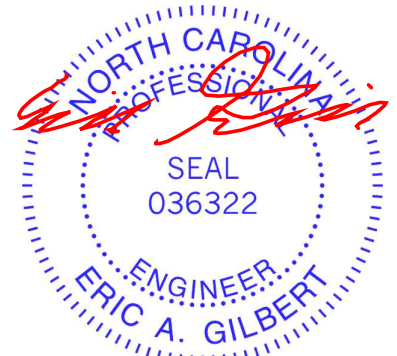
- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 9-10=-107/0, 1-10=-106/0, 6-11=-82/0, 5-11=-82/0, 1-2=-4/0, 2-3=-1528/0, 3-12=-1528/0, 4-12=-1528/0, 4-5=-3/0
- BOT CHORD 8-9=0/957, 7-8=0/1320, 6-7=0/1320
- WEBS 4-7=-1/0, 4-6=-1624/0, 2-9=-1172/0, 2-8=0/708, 3-8=-648/0, 4-8=0/355

**NOTES**

- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (lb/ft)



April 7, 2020

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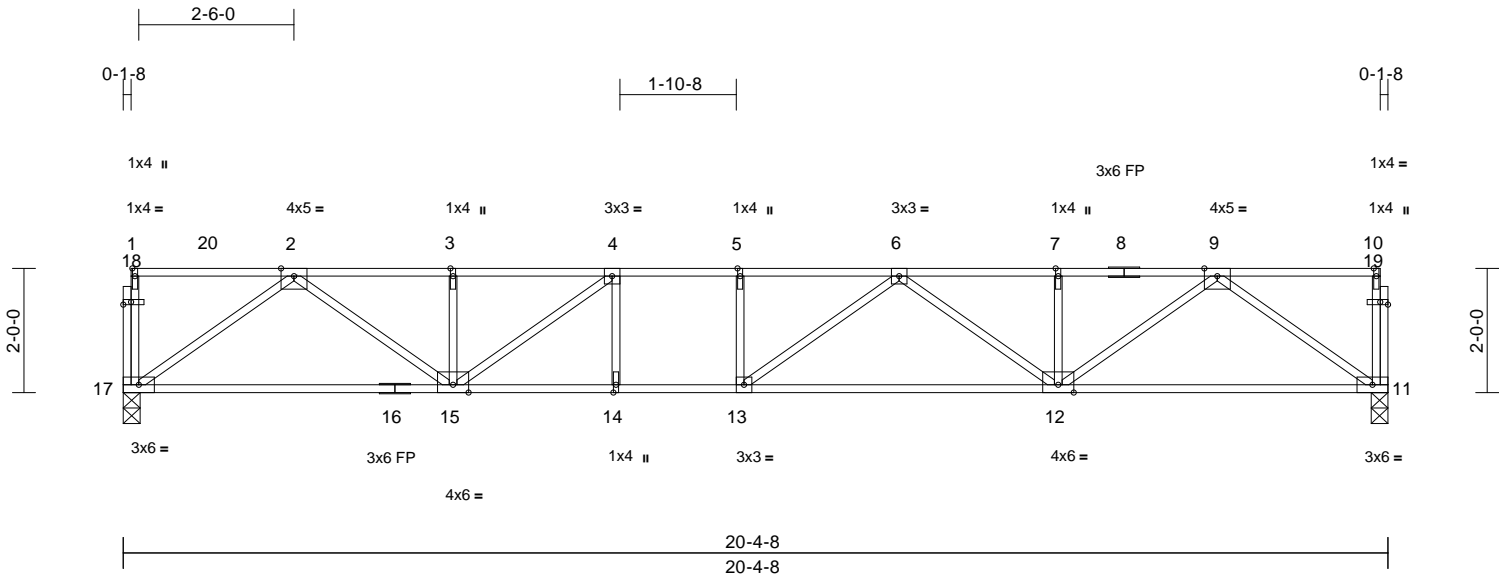
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F25	Truss Type Floor	Qty 8	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271400
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:24  
ID:nDb3sC2cZP3H3?1uWi0WI3zXNFT-zge\_mhx\_c5gpmYoSTlkqu1ZMg5tNI9Ax4bFBzT5Qz

Page: 1



Scale = 1:37.1

Plate Offsets (X, Y): [18:0-1-8,0-0-8], [19:0-1-8,0-0-8]

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	0.93	Vert(LL)	-0.35	12-13	>697	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.47	12-13	>519	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S								
											Weight: 112 lb	FT = 20%F, 11%E

**LUMBER**  
TOP CHORD 2x4 SP No.1(flat)  
BOT CHORD 2x4 SP No.2(flat) \*Except\* 16-11:2x4 SP DSS(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** (size) 11=0-3-4, 17=0-3-4  
Max Grav 11=1101 (LC 1), 17=1104 (LC 1)

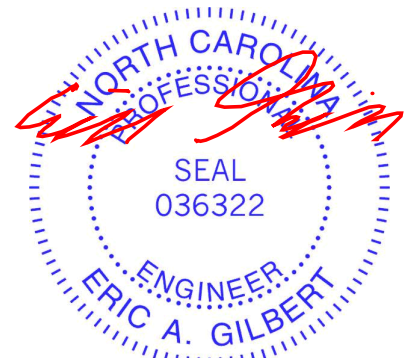
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 17-18=-105/0, 1-18=-105/0, 11-19=-101/0, 10-19=-101/0, 1-20=-3/0, 2-20=-3/0, 2-3=-2298/0, 3-4=-2298/0, 4-5=-2923/0, 5-6=-2923/0, 6-7=-2315/0, 7-8=-2315/0, 8-9=-2315/0, 9-10=-3/0  
BOT CHORD 16-17=0/1373, 15-16=0/1373, 14-15=0/2923, 13-14=0/2923, 12-13=0/2835, 11-12=0/1377  
WEBS 9-11=-1688/0, 2-17=-1683/0, 9-12=0/1163, 2-15=0/1146, 7-12=-230/0, 3-15=-280/45, 6-12=-644/0, 4-15=-924/0, 6-13=-175/447, 4-14=-58/201, 5-13=-175/0

**NOTES**  
1) Unbalanced floor live loads have been considered for this design.  
2) All plates are 1x4 MT20 unless otherwise indicated.  
3) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.  
4) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard  
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 11-17=-10, 1-10=-100  
Concentrated Loads (lb)  
Vert: 20=-3  
2) Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 11-17=-10, 1-10=-100  
Concentrated Loads (lb)  
Vert: 20=-3  
3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 11-17=-10, 1-5=-100, 5-10=-20  
Concentrated Loads (lb)  
Vert: 20=-3  
4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 11-17=-10, 1-4=-20, 4-10=-100  
Concentrated Loads (lb)  
Vert: 20=-3  
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 11-17=-10, 1-5=-100, 5-10=-20  
Concentrated Loads (lb)  
Vert: 20=-3  
6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 11-17=-10, 1-4=-20, 4-10=-100

Concentrated Loads (lb)  
Vert: 20=-3



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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Edenton, NC 27932

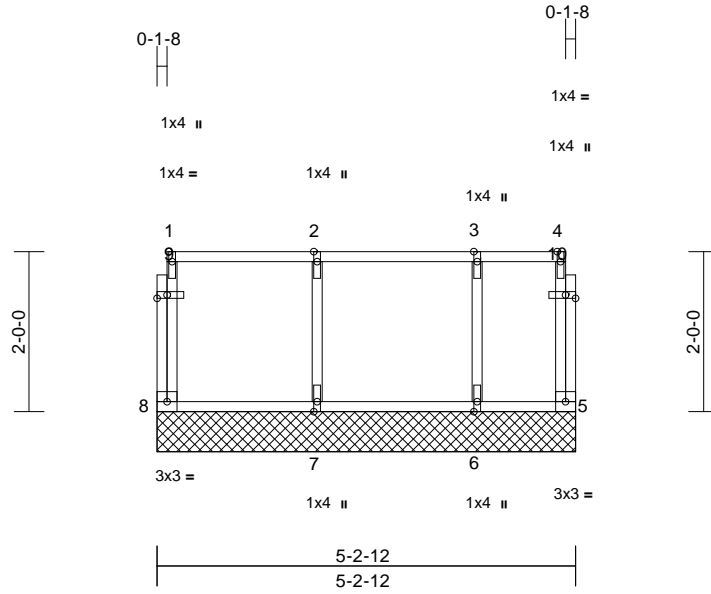


Job Q-2000714-1	Truss F27	Truss Type Floor Supported Gable	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271402
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:25  
ID:nDb3sC2cZP3H3?1uWi0WI3zXNFT-RsCNz1xclwDXRwX\_0AGzM2ROzmA3cyPI0bp9ndzT5Qy

Page: 1



Scale = 1:28.8

Plate Offsets (X, Y): [9:0-1-8,0-0-8], [10:0-1-8,0-0-8]

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 30 lb	FT = 20%F, 11%E

**LUMBER**

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

**BRACING**

- TOP CHORD Structural wood sheathing directly applied or 5-2-12 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

- REACTIONS** (size) 5=5-2-12, 6=5-2-12, 7=5-2-12, 8=5-2-12  
Max Grav 5=47 (LC 1), 6=170 (LC 1), 7=234 (LC 1), 8=84 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 8-9=-78/0, 1-9=-77/0, 5-10=-36/0, 4-10=-36/0, 1-2=-9/0, 2-3=-9/0, 3-4=-9/0  
BOT CHORD 7-8=0/9, 6-7=0/9, 5-6=0/9  
WEBS 2-7=-210/0, 3-6=-162/0

**NOTES**

- All plates are 1x4 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 2-0-0 oc.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



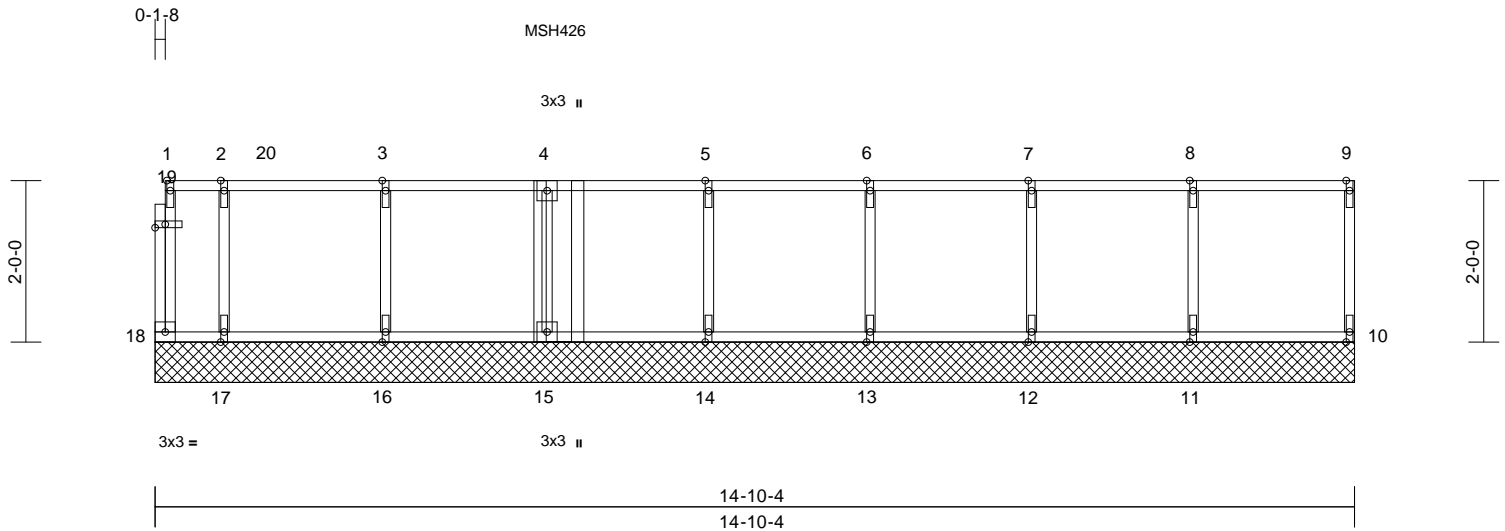
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F28	Truss Type Floor Girder	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271403
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MITek Industries, Inc. Tue Apr 07 13:30:25  
ID:bjpGu4t40U\_IJBGd72\_OUzXNFR-RsCNz1xclwDXRwX\_0AGzM2RKDm9Wcs4I0bp9ndzT5Qy

Page: 1



Scale = 1:28.5

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

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	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.39	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 70 lb	FT = 20%F, 11%E

#### LUMBER

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

(size) 10=14-10-4, 11=14-10-4,  
12=14-10-4, 13=14-10-4,  
14=14-10-4, 15=14-10-4,  
16=14-10-4, 17=14-10-4,  
18=14-10-4  
Max Uplift 18=-46 (LC 1)  
Max Grav 10=91 (LC 1), 11=235 (LC 1),  
12=217 (LC 1), 13=218 (LC 1),  
14=229 (LC 1), 15=1652 (LC 1),  
16=287 (LC 1), 17=381 (LC 1),  
18=46 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 9-10=-83/0, 18-19=0/66, 1-19=0/66, 1-2=-6/0,  
2-20=-6/0, 3-20=-6/0, 3-4=-6/0, 4-5=-6/0,  
5-6=-6/0, 6-7=-6/0, 7-8=-6/0, 8-9=-6/0  
BOT CHORD 17-18=0/6, 16-17=0/6, 15-16=0/6, 14-15=0/6,  
13-14=0/6, 12-13=0/6, 11-12=0/6, 10-11=0/6  
WEBS 8-11=-213/0, 7-12=-197/0, 6-13=-198/0,  
5-14=-209/0, 4-15=-1632/0, 3-16=-265/0,  
2-17=-386/0

#### NOTES

- All plates are 1x4 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 2-0-0 oc.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 18.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Use USP MSH426 (With 16d nails into Girder & 6-16d nails into Truss) or equivalent at 5-0-0 from the left end to connect truss(es) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- 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 (lb/ft)  
Vert: 10-18=-10, 1-9=-100  
Concentrated Loads (lb)  
Vert: 4=-1454 (B), 20=-203
- Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 10-18=-10, 1-9=-100  
Concentrated Loads (lb)  
Vert: 4=-1454 (B), 20=-203



April 7, 2020

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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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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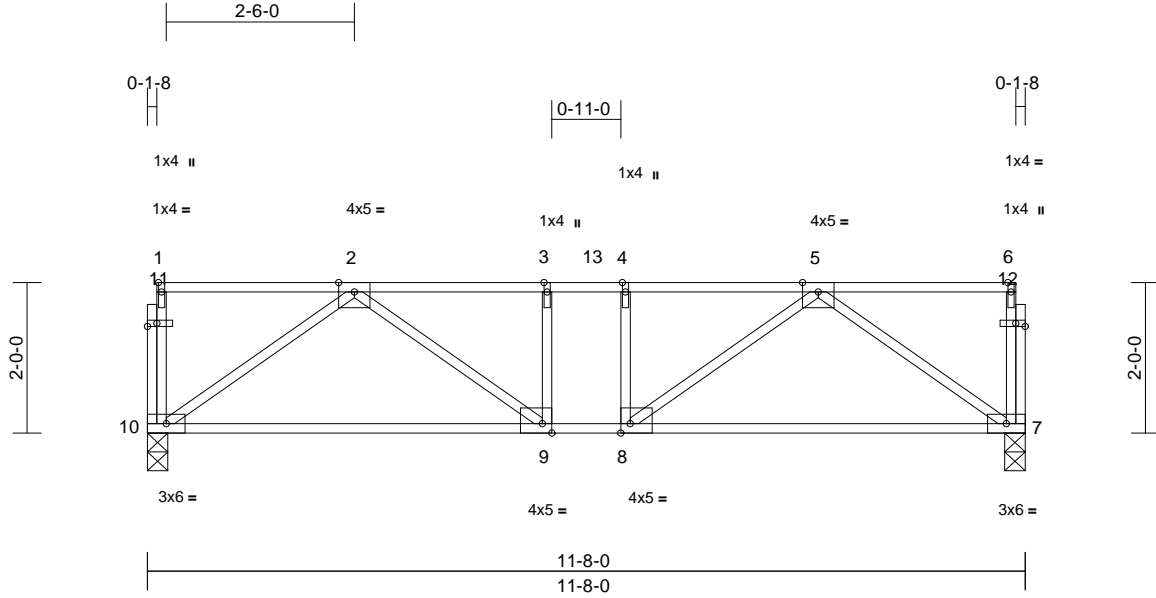
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F29	Truss Type Floor	Qty 6	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271404
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:25  
ID:nDb3sC2cZP3H3?1uWi0W3zXNFT-RsCNz1xclwDXRwX\_0AGzM2RBAmyLcqGI0p9ndzT5Qy

Page: 1



Scale = 1:30.6

Plate Offsets (X, Y): [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-0-8], [12:0-1-8,0-0-8]

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	1.00	Vert(LL)	-0.11	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.21	7-8	>661	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.03	7	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 68 lb	FT = 20%F, 11%E

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 7=0-3-4, 10=0-3-4  
Max Grav 7=1082 (LC 1), 10=1062 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 10-11=-108/0, 1-11=-108/0, 7-12=-101/0, 6-12=-101/0, 1-2=-4/0, 2-3=-2241/0, 3-13=-2241/0, 4-13=-2241/0, 4-5=-2241/0, 5-6=-3/0  
BOT CHORD 9-10=0/1313, 8-9=0/2241, 7-8=0/1341  
WEBS 5-7=-1644/0, 2-10=-1609/0, 5-8=0/1166, 2-9=0/1201, 3-9=-609/0, 4-8=-659/0

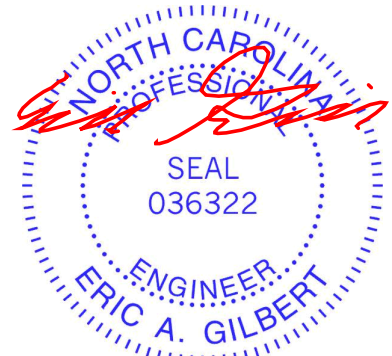
**NOTES**

- Unbalanced floor live loads have been considered for this design.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard  
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)  
Vert: 7-10=-10, 1-6=-100  
Concentrated Loads (lb)  
Vert: 13=-900

- Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 7-10=-10, 1-6=-100  
Concentrated Loads (lb)  
Vert: 13=-900
- 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 7-10=-10, 1-4=-100, 4-6=-20  
Concentrated Loads (lb)  
Vert: 13=-900
- 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 7-10=-10, 1-3=-20, 3-6=-100  
Concentrated Loads (lb)  
Vert: 13=-900
- 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 7-10=-10, 1-4=-100, 4-6=-20  
Concentrated Loads (lb)  
Vert: 13=-900
- 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 7-10=-10, 1-3=-20, 3-6=-100  
Concentrated Loads (lb)  
Vert: 13=-900



April 7, 2020

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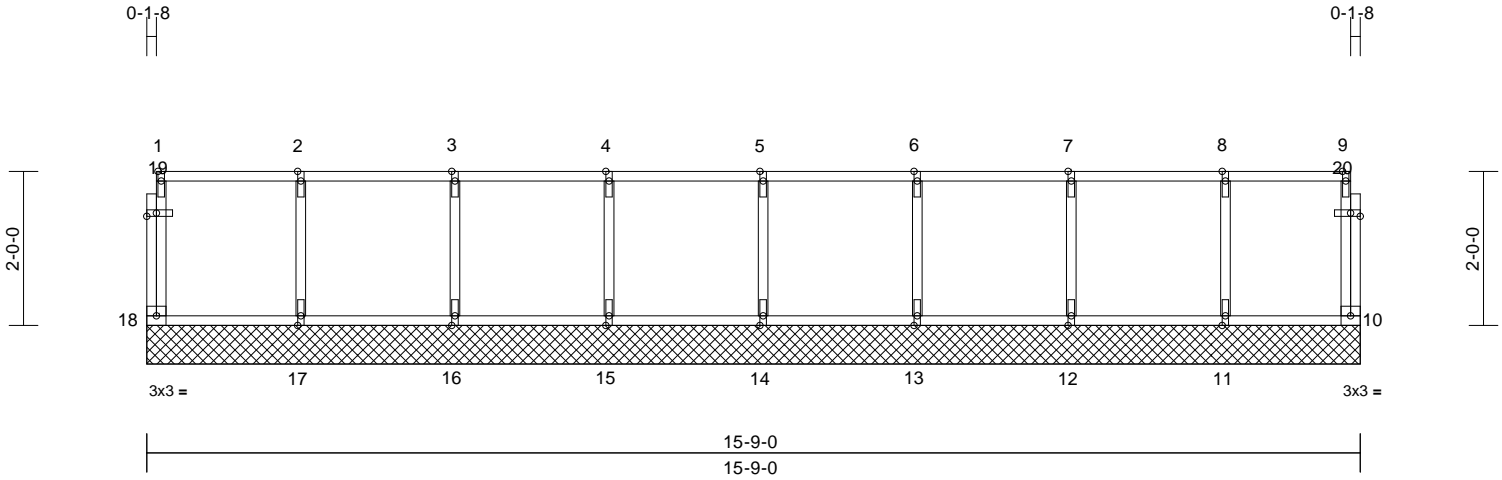
Job Q-2000714-1	Truss F30	Truss Type Floor Supported Gable	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271405
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:26

Page: 1

ID:nDb3sC2cZP3H3?1uWi0WI3zXNFT-RsCNz1xclwDXRwX\_0AGzM2RO6mAlcyRIObp9ndzT5Qy



Scale = 1:29.9

Plate Offsets (X, Y): [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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 75 lb	FT = 20%F, 11%E

**LUMBER**

TOP CHORD 2x4 SP No.2(flat)  
 BOT CHORD 2x4 SP 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** (size) 10=15-9-0, 11=15-9-0, 12=15-9-0, 13=15-9-0, 14=15-9-0, 15=15-9-0, 16=15-9-0, 17=15-9-0, 18=15-9-0  
 Max Grav 10=78 (LC 1), 11=201 (LC 1), 12=225 (LC 1), 13=219 (LC 1), 14=220 (LC 1), 15=220 (LC 1), 16=220 (LC 1), 17=221 (LC 1), 18=89 (LC 1)

**FORCES**

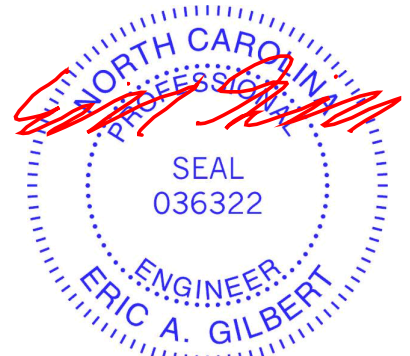
(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 18-19=-81/0, 1-19=-81/0, 10-20=-68/0, 9-20=-68/0, 1-2=-12/0, 2-3=-12/0, 3-4=-12/0, 4-5=-12/0, 5-6=-12/0, 6-7=-12/0, 7-8=-12/0, 8-9=-12/0  
 BOT CHORD 17-18=0/12, 16-17=0/12, 15-16=0/12, 14-15=0/12, 13-14=0/12, 12-13=0/12, 11-12=0/12, 10-11=0/12  
 WEBS 2-17=-201/0, 3-16=-200/0, 4-15=-200/0, 5-14=-200/0, 6-13=-199/0, 7-12=-204/0, 8-11=-186/0

**NOTES**

- 1) All plates are 1x4 MT20 unless otherwise indicated.
- 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 2-0-0 oc.

- 5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

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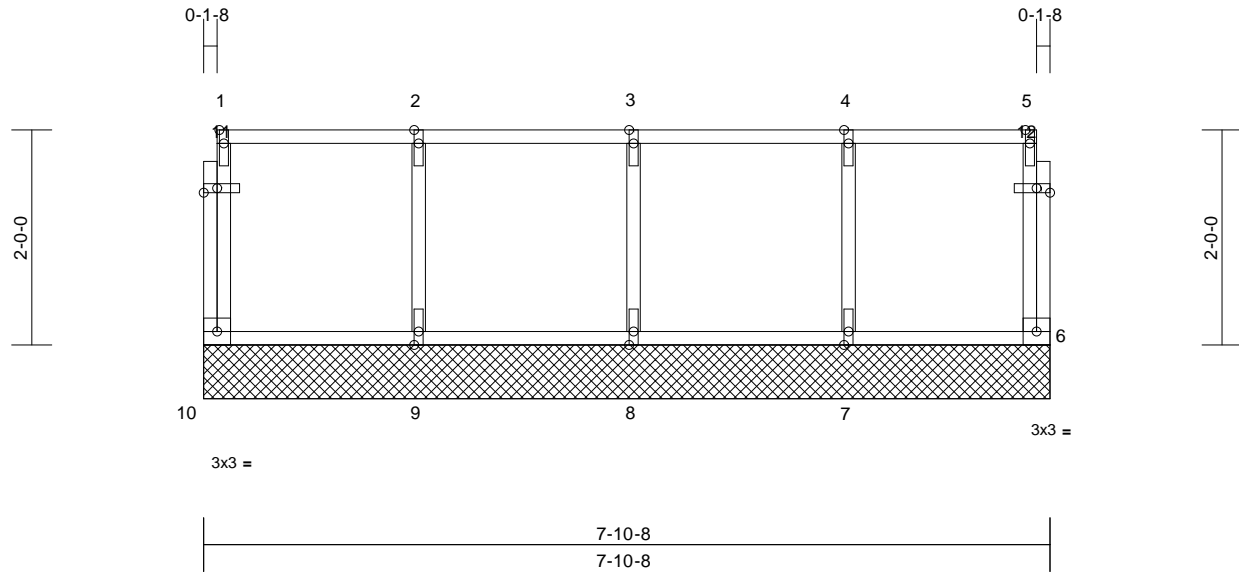
818 Soundside Road  
 Edenton, NC 27932

Job Q-2000714-1	Truss F31	Truss Type Floor Supported Gable	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271406
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:26  
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Page: 1



Scale = 1:21.4

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

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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 41 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP 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** (size) 6=7-10-8, 7=7-10-8, 8=7-10-8, 9=7-10-8, 10=7-10-8  
Max Grav 6=85 (LC 1), 7=209 (LC 1), 8=223 (LC 1), 9=218 (LC 1), 10=91 (LC 1)

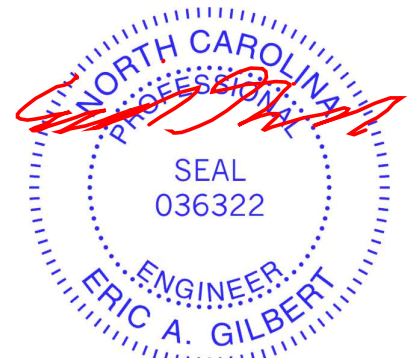
#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 10-11=-82/0, 1-11=-81/0, 6-12=-75/0, 5-12=-75/0, 1-2=-13/0, 2-3=-13/0, 3-4=-13/0, 4-5=-13/0  
BOT CHORD 9-10=0/13, 8-9=0/13, 7-8=0/13, 6-7=0/13  
WEBS 2-9=-199/0, 3-8=-202/0, 4-7=-192/0

#### NOTES

- 1) All plates are 1x4 MT20 unless otherwise indicated.
- 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 2-0-0 oc.
- 5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

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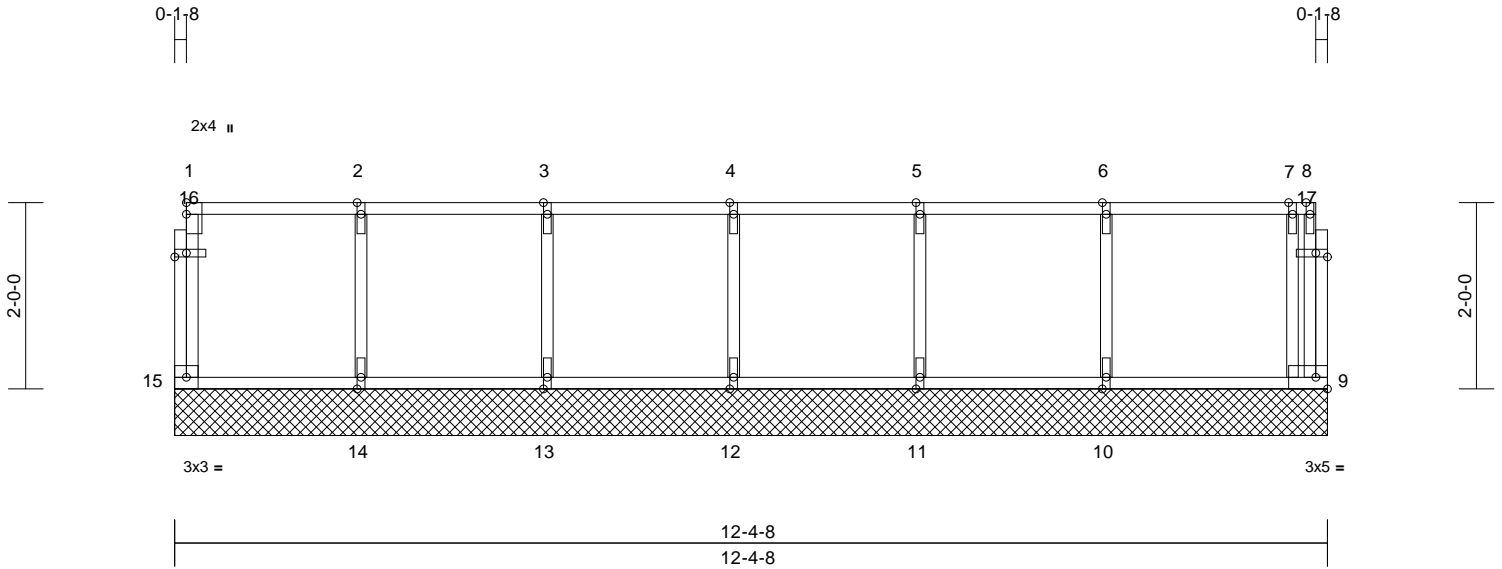


Job Q-2000714-1	Truss F32	Truss Type Floor Supported Gable	Qty 1	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271407
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:26  
ID:nDb3sC2cZP3H3?1uWi0WI3zXNFT-v2mlBNyFWDLO246BaunCvF\_YeAWBLPfsdFZik3zT5Qx

Page: 1



Scale = 1:24.7

Plate Offsets (X, Y): [16:0-1-8,0-0-8], [17:0-1-8,0-0-8]

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-R							Weight: 62 lb	FT = 20%F, 11%E

**LUMBER**

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

6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard

**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) 9=12-4-8, 10=12-4-8, 11=12-4-8, 12=12-4-8, 13=12-4-8, 14=12-4-8, 15=12-4-8  
Max Grav 9=119 (LC 1), 10=235 (LC 1), 11=216 (LC 1), 12=220 (LC 1), 13=222 (LC 1), 14=210 (LC 1), 15=98 (LC 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 15-16=-85/0, 1-16=-85/0, 9-17=0/63, 8-17=0/63, 1-2=-19/0, 2-3=-19/0, 3-4=-19/0, 4-5=-19/0, 5-6=-19/0, 6-7=-19/0, 7-8=-4/0  
BOT CHORD 14-15=0/19, 13-14=0/19, 12-13=0/19, 11-12=0/19, 10-11=0/19, 9-10=0/19  
WEBS 2-14=-195/0, 3-13=-201/0, 4-12=-200/0, 5-11=-197/0, 6-10=-211/0, 7-9=-174/0

**NOTES**

- All plates are 1x4 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 2'-0" oc.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



April 7, 2020

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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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



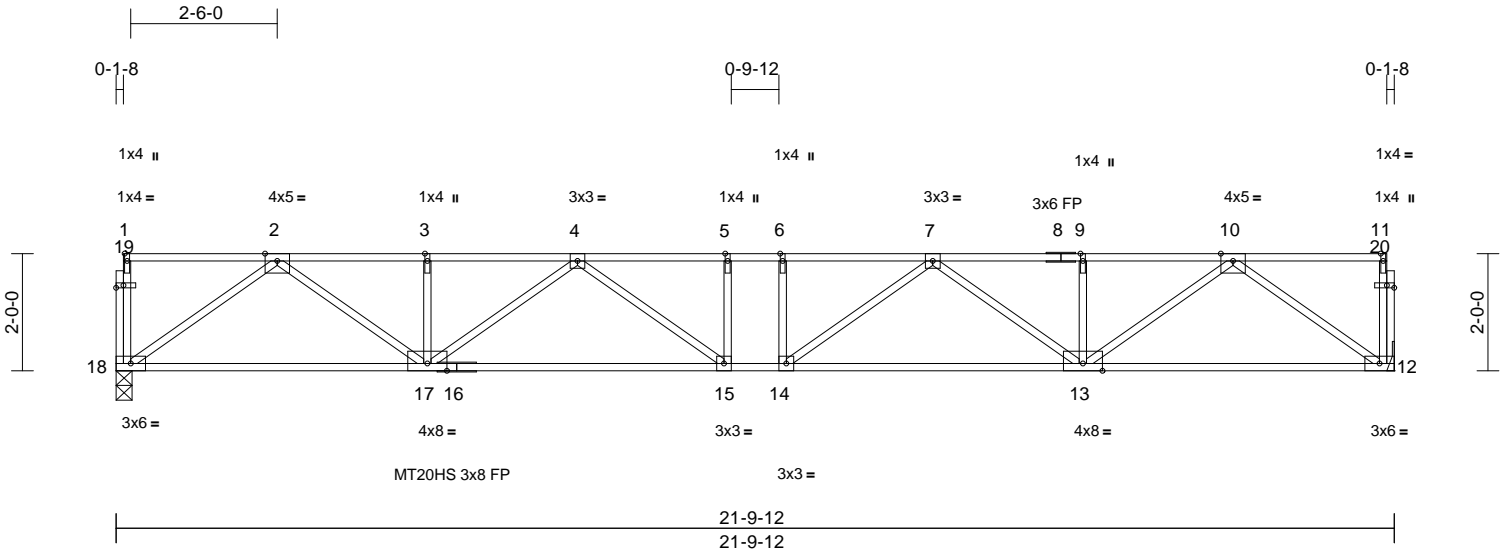
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F33	Truss Type Floor	Qty 3	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271408
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:26  
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Page: 1



Scale = 1:39.3

Plate Offsets (X, Y): [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	0.62	Vert(LL)	-0.24	14-15	>999	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.34	15-17	>760	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.08	12	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 121 lb	FT = 20%F, 11%E

**LUMBER** LOAD CASE(S) Standard

- TOP CHORD 2x4 SP No.2(flat)
- BOT CHORD 2x4 SP 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 2-2-0 oc bracing.

- REACTIONS** (size) 12= Mechanical, 18=0-3-4  
Max Grav 12=1180 (LC 1), 18=1180 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 18-19=-102/0, 1-19=-102/0, 12-20=-102/0, 11-20=-102/0, 1-2=-3/0, 2-3=-2529/0, 3-4=-2529/0, 4-5=-3424/0, 5-6=-3424/0, 6-7=-3424/0, 7-8=-2529/0, 8-9=-2529/0, 9-10=-2529/0, 10-11=-3/0
  - BOT CHORD 17-18=0/1483, 16-17=0/3162, 15-16=0/3162, 14-15=0/3424, 13-14=0/3162, 12-13=0/1483
  - WEBS 10-12=-1818/0, 2-18=-1818/0, 10-13=0/1297, 2-17=0/1297, 9-13=-243/0, 3-17=-243/0, 7-13=-784/0, 4-17=-784/0, 7-14=-80/572, 4-15=-80/572, 5-15=-218/0, 6-14=-218/0

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) All plates are 1x4 MT20 unless otherwise indicated.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



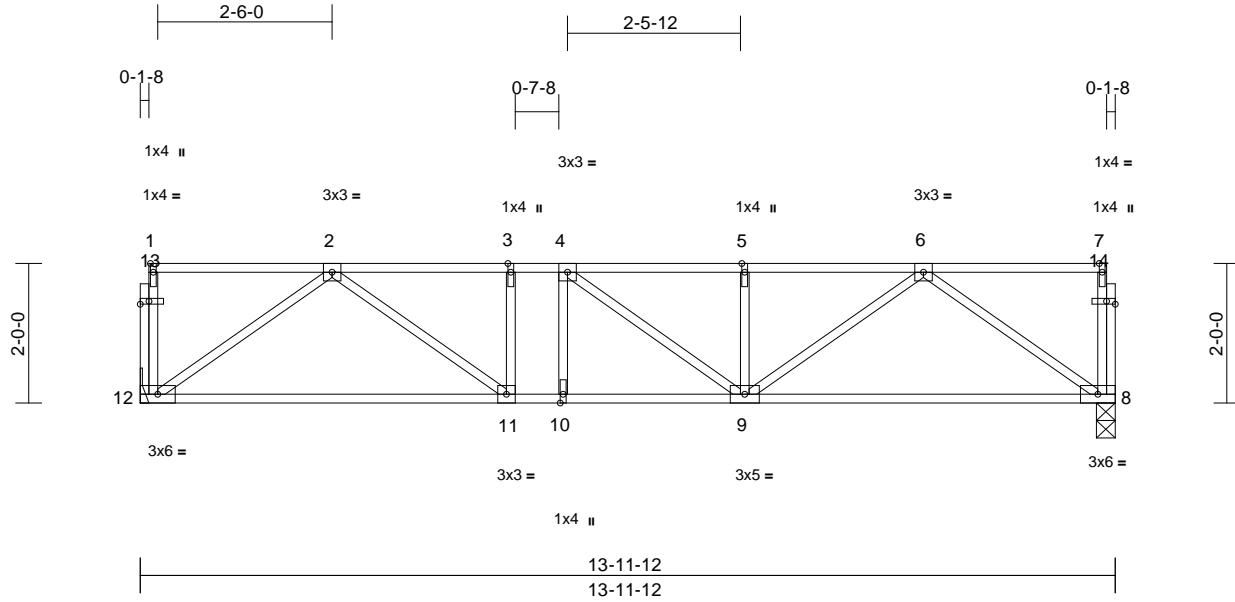
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F34	Truss Type Floor	Qty 3	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271409
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:26  
ID:FP9R3Y3EKIB8g9c44QXlrHzXNFS-v2mlBNyFWDLO246BaunCvF\_UHANELKOSdFZiK3zT5Qx

Page: 1



Scale = 1:33

Plate Offsets (X, Y): [13:0-1-8,0-0-8], [14:0-1-8,0-0-8]

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	0.40	Vert(LL)	-0.08	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.11	11-12	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 82 lb	FT = 20%F, 11%E

**LUMBER**

- TOP CHORD 2x4 SP No.2(flat)
- BOT CHORD 2x4 SP 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** (size) 8=0-3-4, 12= Mechanical  
Max Grav 8=749 (LC 1), 12=749 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 12-13=-102/0, 1-13=-102/0, 8-14=-103/0, 7-14=-103/0, 1-2=-3/0, 2-3=-1349/0, 3-4=-1349/0, 4-5=-1345/0, 5-6=-1345/0, 6-7=-3/0
  - BOT CHORD 11-12=0/883, 10-11=0/1349, 9-10=0/1349, 8-9=0/879
  - WEBS 6-8=-1076/0, 2-12=-1081/0, 6-9=0/578, 2-11=0/583, 5-9=-287/0, 3-11=-210/0, 4-9=-210/167, 4-10=-159/16

**NOTES**

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



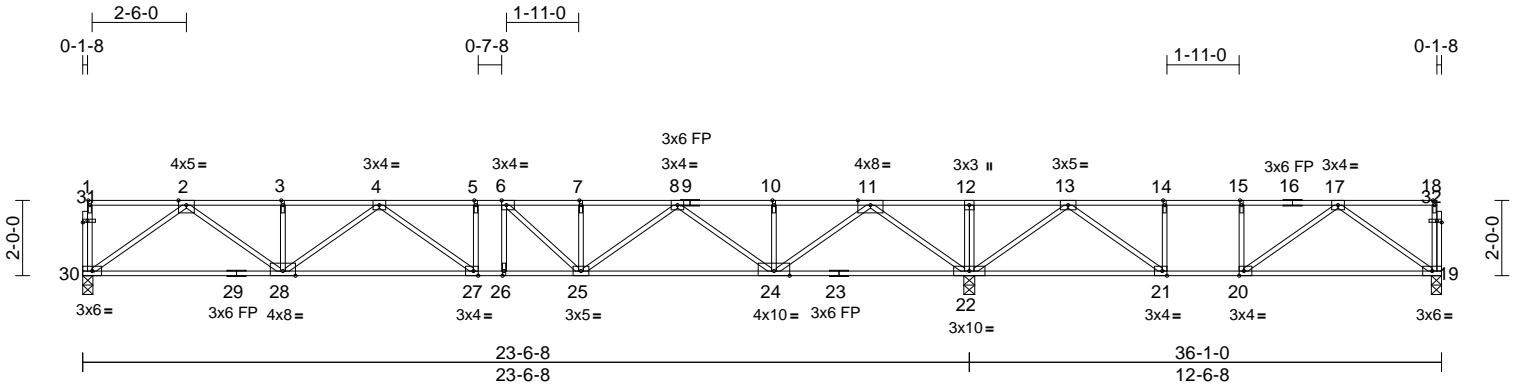
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F35	Truss Type Floor	Qty 2	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271410
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:27  
ID:FP9R3Y3EKIB8g9c44QXlRHzXNFS-NFJ7OjztHXTFGehN7bIRRTWWHadw4gybsvlFsWzT5Qw

Page: 1



Scale = 1:61.2

Plate Offsets (X, Y): [6:0-1-8,Edge], [20:0-1-8,Edge], [21:0-1-8,Edge], [27:0-1-8,Edge], [31:0-1-8,0-0-8], [32:0-1-8,0-0-8]

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	0.96	Vert(LL)	-0.29	25-26	>972	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.39	27-28	>721	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.09	19	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S							Weight: 199 lb	FT = 20%F, 11%E

**LUMBER**  
TOP CHORD 2x4 SP No.2(flat) \*Except\* 9-16:2x4 SP No.1 (flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.3(flat)  
OTHERS 2x4 SP No.3(flat)

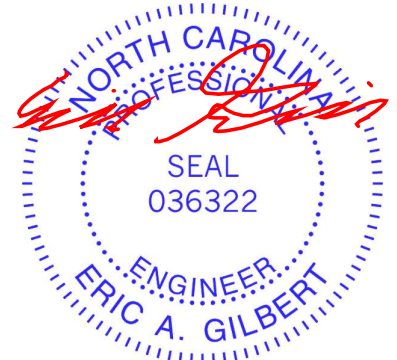
**BRACING**  
TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

**REACTIONS** (size) 19=0-3-4, 22=0-3-8, 30=0-3-4  
Max Uplift 19=-12 (LC 3)  
Max Grav 19=599 (LC 4), 22=2303 (LC 1), 30=1197 (LC 10)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 30-31=-102/0, 1-31=-102/0, 19-32=-96/0, 18-32=-96/0, 1-2=-3/0, 2-3=-2576/0, 3-4=-2576/0, 4-5=-3516/0, 5-6=-3516/0, 6-7=-3398/0, 7-8=-3398/0, 8-9=-1989/0, 9-10=-1989/0, 10-11=-1989/0, 11-12=0/1663, 12-13=0/1663, 13-14=-874/334, 14-15=-874/334, 15-16=-874/334, 16-17=-874/334, 17-18=-3/0  
BOT CHORD 29-30=0/1507, 28-29=0/1507, 27-28=0/3232, 26-27=0/3516, 25-26=0/3516, 24-25=0/2872, 23-24=-22/679, 22-23=-22/679, 21-22=-831/374, 20-21=-334/874, 19-20=-74/671  
WEBS 12-22=-297/0, 11-22=-2168/0, 2-30=-1847/0, 11-24=0/1711, 2-28=0/1325, 10-24=-258/0, 3-28=-243/0, 8-24=-1182/0, 4-28=-813/0, 8-25=0/739, 4-27=-114/531, 7-25=-272/0, 5-27=-171/0, 6-25=-515/178, 6-26=-129/139, 13-22=-1264/0, 17-19=-820/91, 13-21=0/961, 17-20=-323/252, 14-21=-449/0, 15-20=-135/158

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 1x4 MT20 unless otherwise indicated.
  - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 19.
  - 4) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 6) CAUTION, Do not erect truss backwards.

**LOAD CASE(S)** Standard



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



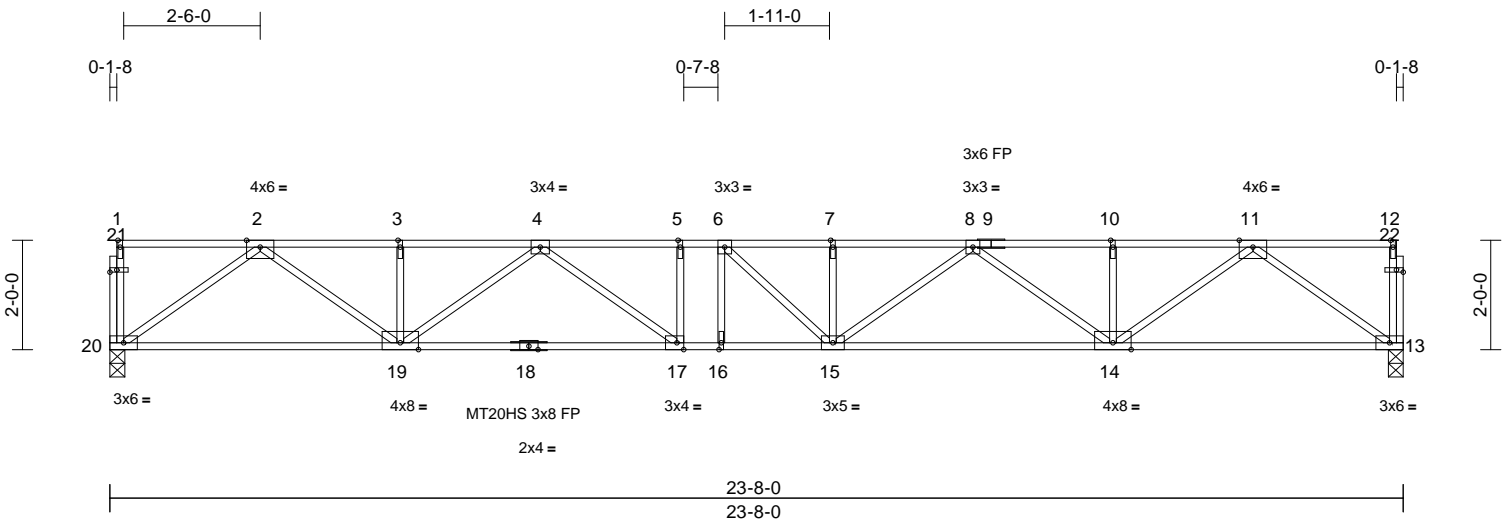
818 Soundside Road  
Edenton, NC 27932

Job Q-2000714-1	Truss F36	Truss Type Floor	Qty 4	Ply 1	Weaver Smith Residence-Floor Job Reference (optional)	E14271411
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Peak Truss Builders, LLC, New Hill, NC - 27562,

Run: 8.33 S Mar 23 2020 Print: 8.330 S Mar 23 2020 MiTek Industries, Inc. Tue Apr 07 13:30:27  
ID:FP9R3Y3EKIB8g9c44QXlrHzXNFS-NFJ7OjztHXTFGehN7bIRRTWclagJ4ilbsvIFsWzT5Qw

Page: 1



Scale = 1:42.2

Plate Offsets (X, Y): [17:0-1-8,Edge], [21:0-1-8,0-0-8], [22:0-1-8,0-0-8]

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	0.58	Vert(LL)	-0.32	15-16	>876	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.44	15-16	>642	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.09	13	n/a	n/a		
BCDL	5.0	Code	IBC2015/TPI2014	Matrix-S								
											Weight: 133 lb	FT = 20%F, 11%E

**LUMBER**

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

- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

**LOAD CASE(S)** Standard

**BRACING**

- TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

(size) 13=0-3-4, 20=0-3-4  
Max Grav 13=1282 (LC 1), 20=1282 (LC 1)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

- TOP CHORD 20-21=-102/0, 1-21=-102/0, 13-22=-102/0, 12-22=-102/0, 1-2=-3/0, 2-3=-2810/0, 3-4=-2810/0, 4-5=-3996/0, 5-6=-3996/0, 6-7=-3993/0, 7-8=-3993/0, 8-9=-2810/0, 9-10=-2810/0, 10-11=-2810/0, 11-12=-3/0
- BOT CHORD 19-20=0/1625, 18-19=0/3582, 17-18=0/3582, 16-17=0/3996, 15-16=0/3996, 14-15=0/3581, 13-14=0/1625
- WEBS 11-13=-1993/0, 2-20=-1992/0, 11-14=0/1469, 2-19=0/1468, 10-14=-247/0, 3-19=-245/0, 8-14=-955/0, 4-19=-958/0, 8-15=0/510, 4-17=0/704, 7-15=-282/0, 5-17=-221/0, 6-15=-392/347, 6-16=-191/112

**NOTES**

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1x4 MT20 unless otherwise indicated.
- The Fabrication Tolerance at joint 18 = 11%
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.



April 7, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

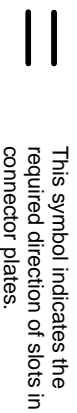
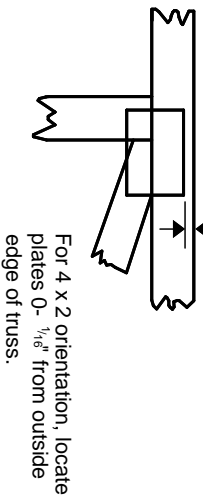
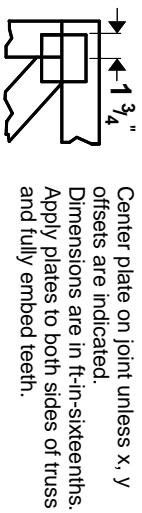
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road  
Edenton, NC 27932

# Symbols

## PLATE LOCATION AND ORIENTATION



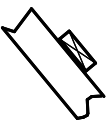
\* Plate location details available in **MITrak 20/20 software or upon request.**

## PLATE SIZE

**4 X 4**

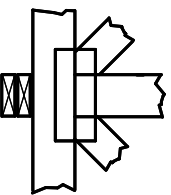
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING

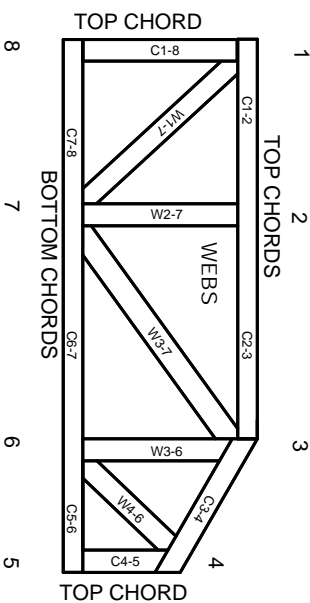


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

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

# Numbering System



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



# General Safety Notes

**Failure to Follow Could Cause Property Damage or Personal Injury**

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