

RE: 2503-4262-A - Blake Pond Lot 00.0094 OWF

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Project Customer: DRB Raleigh Project Name: Blake Pond Lot 00.0094
 Lot/Block: 00.0094 Subdivision: Blake Pond
 Model: Stonehaven
 Address: 149 Whimbrel Court
 City: Lillington State: NC

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

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.8
 Wind Code: ASCE 7-16 Design Method: MWFRS (Directional)/C-C hybrid Wind ASCE 7-16
 Wind Speed: 120 mph Floor Load: N/A psf
 Roof Load: 40.0 psf Exposure Category: B
 Mean Roof Height (feet): 25

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I72869749	2F9	4/21/25	35	I72869783	1F9	4/21/25
2	I72869750	2F9A	4/21/25	36	I72869784	1F10	4/21/25
3	I72869751	2F8	4/21/25	37	I72869785	1F12	4/21/25
4	I72869752	2F9B	4/21/25	38	I72869786	1F13	4/21/25
5	I72869753	2F16A	4/21/25	39	I72869787	1F11	4/21/25
6	I72869754	2F4	4/21/25	40	I72869788	1F14	4/21/25
7	I72869755	2F1	4/21/25	41	I72869789	1FGE7	4/21/25
8	I72869756	2F2	4/21/25	42	I72869790	2F22	4/21/25
9	I72869757	2F1A	4/21/25	43	I72869791	2F22A	4/21/25
10	I72869758	2FGE1	4/21/25	44	I72869792	2F21	4/21/25
11	I72869759	1F5	4/21/25	45	I72869793	1F15	4/21/25
12	I72869760	2F14	4/21/25	46	I72869794	2F18	4/21/25
13	I72869761	2F12	4/21/25	47	I72869795	2F17	4/21/25
14	I72869762	2F23A	4/21/25	48	I72869796	1F16	4/21/25
15	I72869763	2FGE3	4/21/25	49	I72869797	2F27	4/21/25
16	I72869764	1F4	4/21/25	50	I72869798	2F20	4/21/25
17	I72869765	1F2	4/21/25	51	I72869799	1FGE4	4/21/25
18	I72869766	1F1	4/21/25	52	I72869800	1F7	4/21/25
19	I72869767	1FGE1	4/21/25	53	I72869801	2F3	4/21/25
20	I72869768	2F25	4/21/25	54	I72869802	1F17	4/21/25
21	I72869769	2F24A	4/21/25	55	I72869803	1FGE8	4/21/25
22	I72869770	2F24	4/21/25	56	I72869804	1F6	4/21/25
23	I72869771	1FGE6	4/21/25	57	I72869805	1FGE2	4/21/25
24	I72869772	2FGE2	4/21/25	58	I72869806	1FGE9	4/21/25
25	I72869773	2F10	4/21/25	59	I72869807	1FGE3	4/21/25
26	I72869774	1F3	4/21/25	60	I72869808	2FGE6	4/21/25
27	I72869775	2F6	4/21/25	61	I72869809	2FG1	4/21/25
28	I72869776	2F5	4/21/25	62	I72869810	2FG2	4/21/25
29	I72869777	2F26	4/21/25	63	I72869811	1F8	4/21/25
30	I72869778	2F26A	4/21/25	64	I72869812	2F15	4/21/25
31	I72869779	2FGE4	4/21/25	65	I72869813	1FGE5	4/21/25
32	I72869780	2F16	4/21/25	66	I72869814	2FG3	4/21/25
33	I72869781	1F14L	4/21/25	67	I72869815	2F7	4/21/25
34	I72869782	1FGR1	4/21/25	68	I72869816	2FGE7	4/21/25

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

Truss Design Engineer's Name: Galinski, John
 My license renewal date for the state of North Carolina is December 31, 2025.

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.



April 21, 2025

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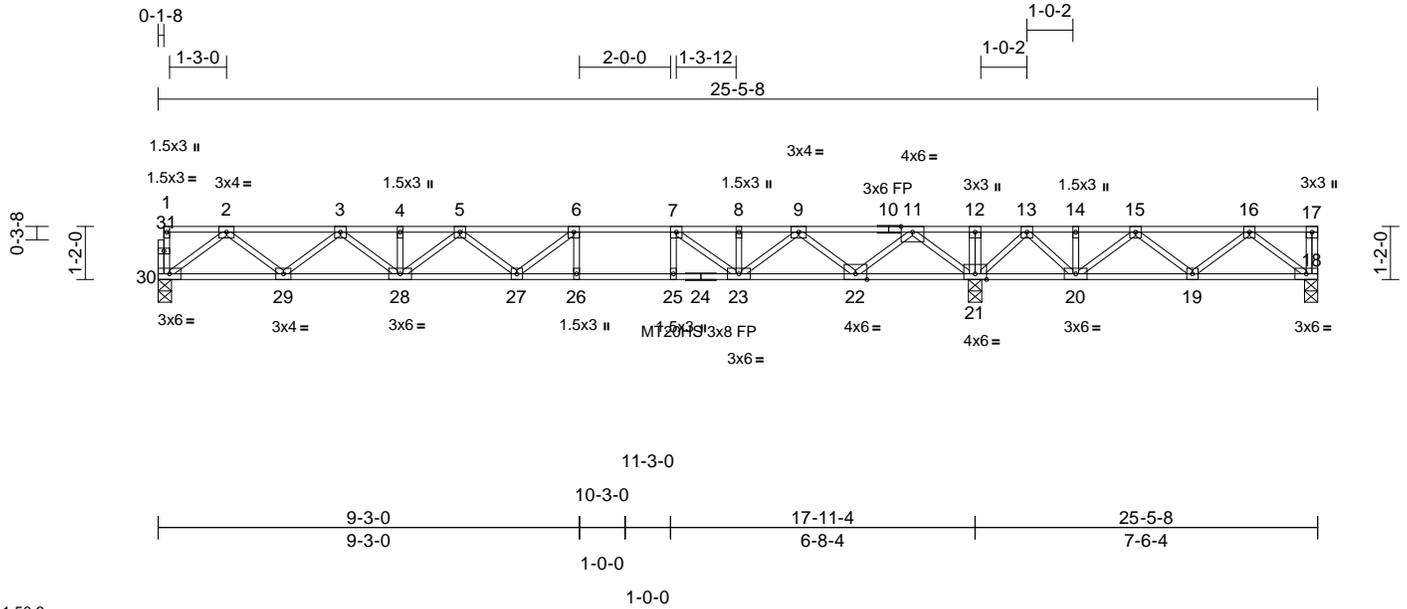
No.	Seal#	Truss Name	Date
69	I72869817	1FGE10	4/21/25

Job 2503-4262-A	Truss 2F9	Truss Type Floor	Qty 2	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869749
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Structural, LLC, Thurmont, MD - 21788,

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.26	26-27	>823	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.36	26-27	>601	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	21	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 131 lb	FT = 20%F, 12%E

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 18=0-3-8, 21=0-3-8, 30=0-3-8
Max Uplift 18=157 (LC 3)
Max Grav 18=240 (LC 4), 21=1477 (LC 1), 30=676 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-30=-28/0, 17-18=-30/0, 1-2=-2/0, 2-3=-1397/0, 3-4=-2231/0, 4-5=-2231/0, 5-6=-2491/0, 6-7=-2267/0, 7-8=-1471/0, 8-9=-1471/0, 9-11=-169/62, 11-12=0/1821, 12-13=0/1820, 13-14=-62/1084, 14-15=-62/1084, 15-16=-290/473, 16-17=0/0
BOT CHORD 29-30=0/844, 28-29=0/1920, 27-28=0/2519, 26-27=0/2267, 25-26=0/2267, 23-25=0/2267, 22-23=0/929, 21-22=-726/0, 20-21=-1392/0, 19-20=-751/286, 18-19=-225/265
WEBS 6-26=-300/0, 7-25=0/309, 12-21=-101/0, 2-30=-1056/0, 2-29=0/721, 3-29=-680/0, 3-28=0/397, 4-28=-14/1, 5-28=-368/0, 5-27=-115/130, 6-27=-61/414, 11-21=-1376/0, 11-22=0/1051, 9-22=-999/0, 9-23=0/700, 16-18=-333/282, 16-19=-323/32, 15-19=0/361, 15-20=-565/0, 14-20=-70/0, 8-23=-43/135, 7-23=-1055/0, 13-20=0/626, 13-21=-769/0

- All plates are 3x3 (=) MT20 unless otherwise indicated.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
 - 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



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



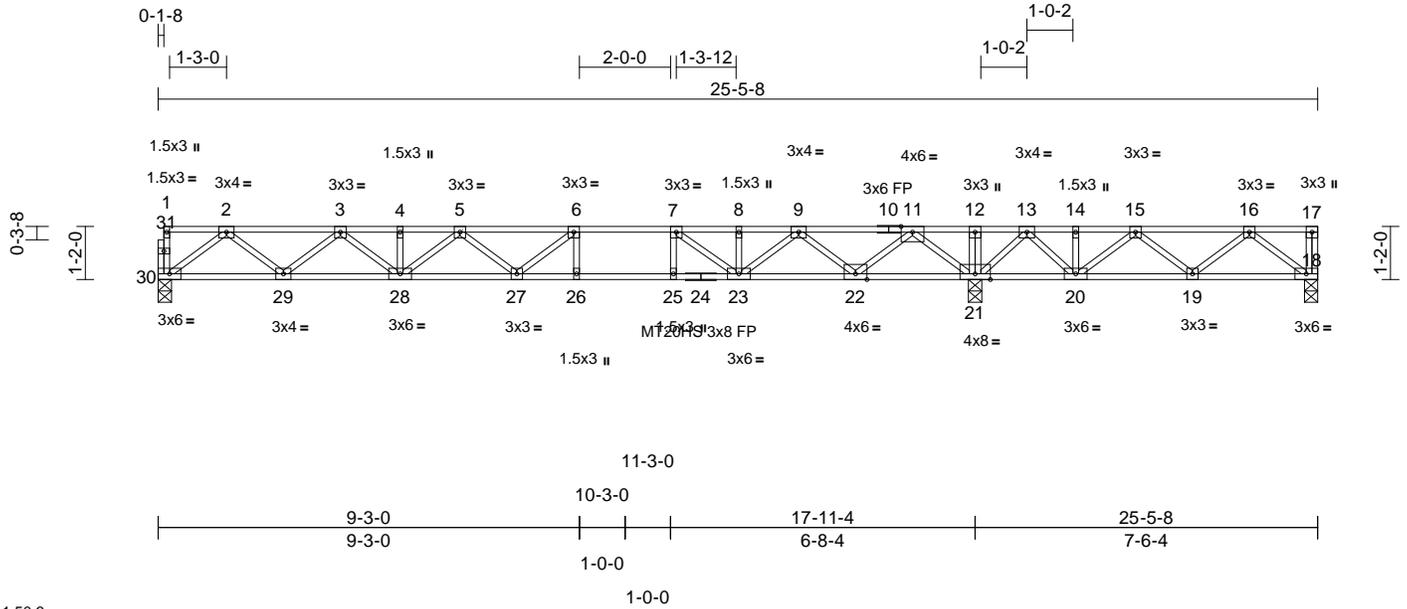
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F9A	Truss Type Floor	Qty 2	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869750
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Structural, LLC, Thurmont, MD - 21788,

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Scale = 1:50.3

Loading	(psf)	Spacing	1-10-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.27	26-27	>800	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.37	26-27	>585	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.04	21	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 131 lb	FT = 20%F, 12%E

LUMBER
TOP CHORD 2x4 SP SS(flat) *Except* 10-17:2x4 SP No.2 (flat)
BOT CHORD 2x4 SP SS(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 6-0-0 oc bracing.

REACTIONS (size) 18=0-3-8, 21=0-3-8, 30=0-3-8
Max Uplift 18=165 (LC 3)
Max Grav 18=278 (LC 4), 21=1674 (LC 1), 30=781 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-30=-33/0, 17-18=-34/0, 1-2=-2/0, 2-3=-1618/0, 3-4=-2591/0, 4-5=-2591/0, 5-6=-2897/0, 6-7=-2663/0, 7-8=-1766/0, 8-9=-1766/0, 9-11=-285/55, 11-12=0/1985, 12-13=0/1984, 13-14=-85/1166, 14-15=-85/1166, 15-16=-339/504, 16-17=0/0
BOT CHORD 29-30=0/975, 28-29=0/2225, 27-28=0/2931, 26-27=0/2663, 25-26=0/2663, 23-25=0/2663, 22-23=0/1153, 21-22=-742/0, 20-21=-1503/0, 19-20=-803/339, 18-19=-238/308
WEBS 6-26=-304/0, 7-25=0/316, 12-21=-119/0, 2-30=-1221/0, 2-29=0/836, 3-29=-790/0, 3-28=0/468, 4-28=-14/2, 5-28=-433/0, 5-27=-142/154, 6-27=-84/452, 11-21=-1562/0, 11-22=0/1197, 9-22=-1142/0, 9-23=0/792, 16-18=-386/298, 16-19=-347/41, 15-19=0/390, 15-20=-625/0, 8-23=-47/174, 7-23=-1200/0, 14-20=-81/0, 13-21=-859/0, 13-20=0/697

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.

- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
 - 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



April 21, 2025

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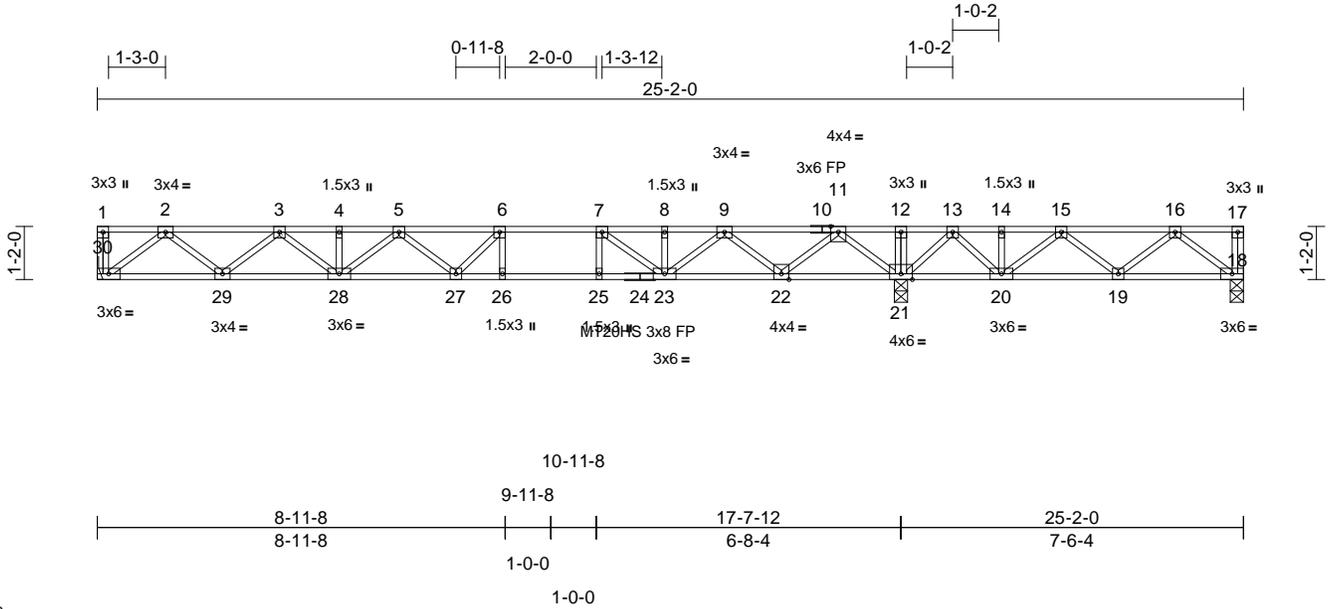
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F9B	Truss Type Floor	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869752
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Structural, LLC, Thurmont, MD - 21788,

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Page: 1



Scale = 1:50.3

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.24	26-27	>886	480	MT20HS 187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.32	26-27	>647	360	MT20 244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	21	n/a	n/a	
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 131 lb FT = 20%F, 12%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP SS(flat) *Except* 24-18:2x4 SP No.2 (flat)
WEBS 2x4 SP No.3(flat)

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 18=0-3-8, 21=0-3-8, 30=Mechanical
Max Uplift 18=148 (LC 3)
Max Grav 18=241 (LC 4), 21=1455 (LC 1), 30=670 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-30=-31/0, 17-18=-30/0, 1-2=0/0, 2-3=-1371/0, 3-4=-2182/0, 4-5=-2182/0, 5-6=-2410/0, 6-7=-2214/0, 7-8=-1470/0, 8-9=-1470/0, 9-11=-195/61, 11-12=0/1765, 12-13=0/1765, 13-14=-69/1039, 14-15=-69/1039, 15-16=-293/450, 16-17=0/0
BOT CHORD 29-30=0/830, 28-29=0/1880, 27-28=0/2441, 26-27=0/2214, 25-26=0/2214, 23-25=0/2214, 22-23=0/940, 21-22=-687/0, 20-21=-1336/0, 19-20=-717/292, 18-19=-213/267
WEBS 6-26=-327/0, 7-25=0/286, 12-21=-98/0, 2-30=-1042/0, 2-29=0/703, 3-29=-664/0, 3-28=0/385, 4-28=-27/0, 5-28=-330/0, 5-27=-126/135, 6-27=-56/413, 11-21=-1355/0, 11-22=0/1027, 9-22=-979/0, 9-23=0/686, 16-18=-335/267, 16-19=-309/34, 15-19=0/346, 15-20=-553/0, 8-23=-47/125, 7-23=-996/0, 14-20=-68/0, 13-21=-760/0, 13-20=0/613

- All plates are 3x3 (=) MT20 unless otherwise indicated.
 - Refer to girder(s) for truss to truss connections.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces.
 - 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



April 21, 2025

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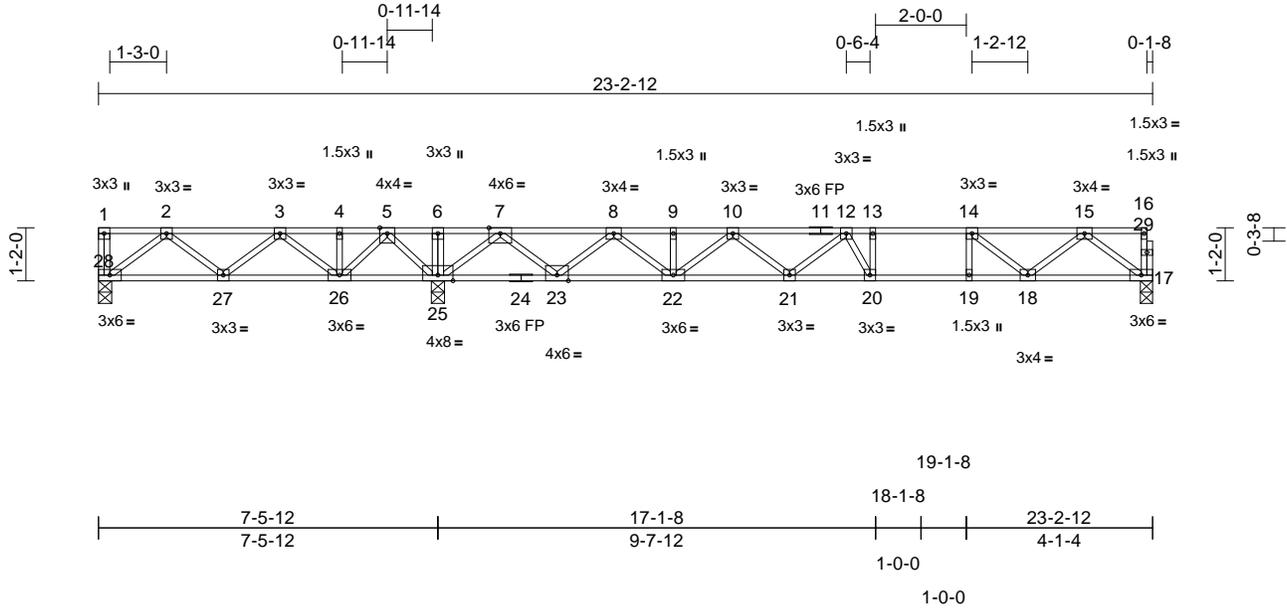
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F16A	Truss Type Floor	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869753
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:29
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.18	20-21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.24	20-21	>786	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	-0.01	25	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 120 lb	FT = 20%F, 12%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 24-17:2x4 SP SS (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 6-0-0 oc bracing.

REACTIONS (size) 17=0-3-4, 25=0-3-8, 28=0-3-8
Max Uplift 28=227 (LC 4)
Max Grav 17=694 (LC 4), 25=1791 (LC 1), 28=286 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-28=-37/0, 16-17=-49/0, 1-2=0/0, 2-3=-329/668, 3-4=-11/1508, 4-5=-11/1508, 5-6=0/2492, 6-7=0/2492, 7-8=0/419, 8-9=-1254/0, 9-10=-1254/0, 10-12=-1995/0, 12-13=-1996/0, 13-14=-1996/0, 14-15=-1371/0, 15-16=-3/0
BOT CHORD 27-28=-322/314, 26-27=-1052/309, 25-26=-1913/0, 23-25=-1270/0, 22-23=0/639, 21-22=0/1767, 20-21=0/2128, 19-20=0/1996, 18-19=0/1996, 17-18=0/831
WEBS 6-25=-119/0, 13-20=-141/167, 14-19=-1/213, 2-28=-394/403, 2-27=-451/19, 3-27=0/499, 3-26=-763/0, 7-25=-1579/0, 7-23=0/1170, 8-23=-1132/0, 8-22=0/800, 9-22=-65/0, 10-22=-671/0, 10-21=0/310, 12-21=-256/0, 12-20=-361/197, 15-17=-1039/0, 15-18=0/702, 14-18=-803/0, 4-26=-84/0, 5-25=-1001/0, 5-26=0/819

NOTES
1) Unbalanced floor live loads have been considered for this design.

- 2) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 28. This connection is for uplift only and does not consider lateral forces.
 - 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.
 - 4) CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard



April 21, 2025

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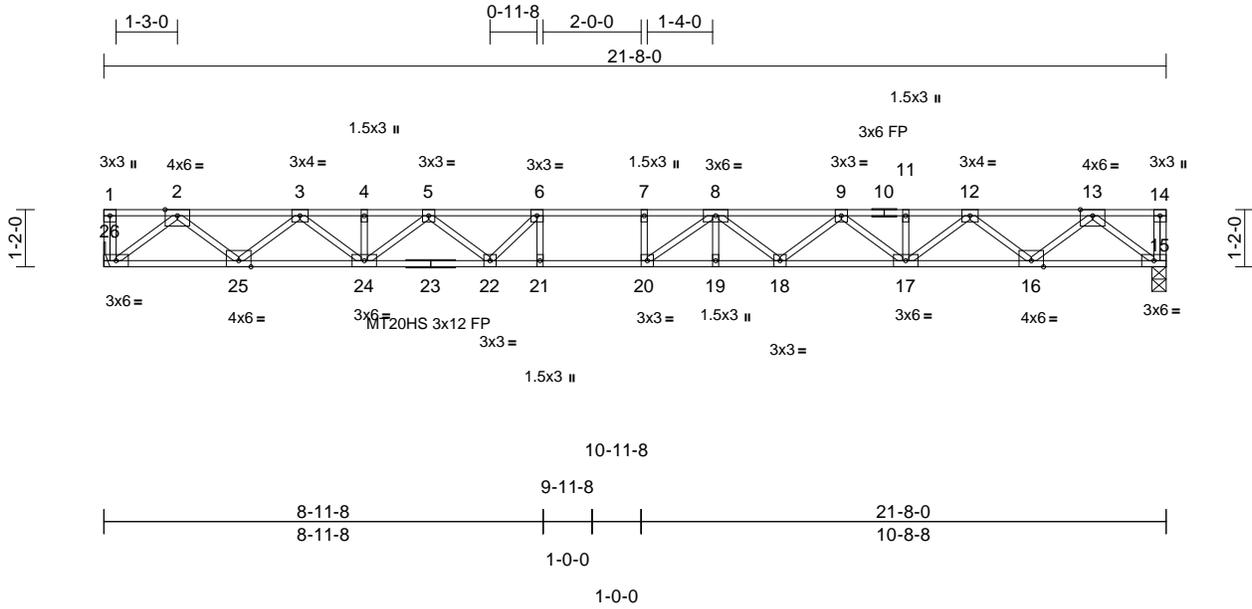
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F4	Truss Type Floor	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869754
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:25
ID:IP4Gn81I2VTmupmzNKNk?gy8MUC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:46.8

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.44	19-20	>582	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.61	19-20	>423	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.08	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 111 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

REACTIONS (size) 15=0-3-8, 26= Mechanical
Max Grav 15=942 (LC 1), 26=942 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-32/0, 14-15=-32/0, 1-2=0/0, 2-3=-2050/0, 3-4=-3545/0, 4-5=-3545/0, 5-6=-4440/0, 6-7=-4765/0, 7-8=-4765/0, 8-9=-4424/0, 9-11=-3539/0, 11-12=-3539/0, 12-13=-2050/0, 13-14=0/0
BOT CHORD 25-26=0/1187, 24-25=0/2887, 22-24=0/4084, 21-22=0/4765, 20-21=0/4765, 19-20=0/4751, 18-19=0/4751, 17-18=0/4103, 16-17=0/2887, 15-16=0/1186
WEBS 6-21=-113/252, 7-20=-175/25, 2-26=-1489/0, 2-25=0/1124, 3-25=-1090/0, 3-24=0/840, 4-24=-71/0, 5-24=-688/0, 5-22=0/576, 6-22=-695/0, 13-15=-1489/0, 13-16=0/1124, 12-16=-1090/0, 12-17=0/832, 11-17=-53/0, 9-17=-720/0, 9-18=0/418, 8-18=-418/0, 8-19=-53/126, 8-20=-364/506

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Required 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 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



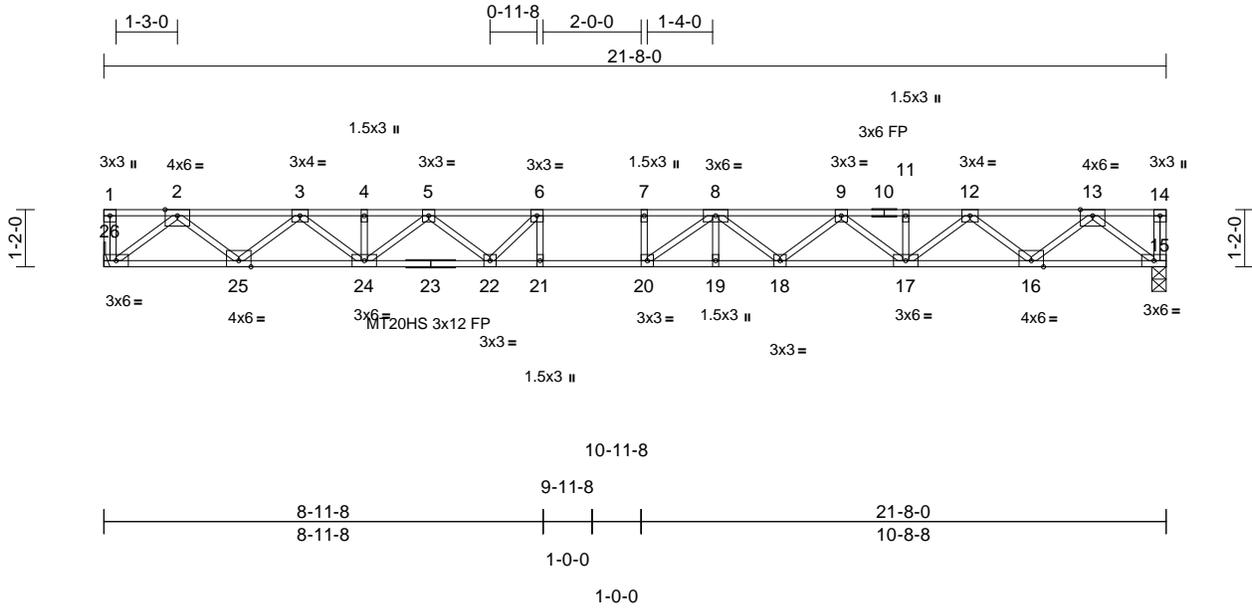
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F1	Truss Type Floor	Qty 2	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869755
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:24
ID:dvoM3it86VqcqGT66eh_xy8MUP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.44	19-20	>582	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.61	19-20	>423	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.08	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 111 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

REACTIONS (size) 15=0-3-8, 26= Mechanical
Max Grav 15=942 (LC 1), 26=942 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-32/0, 14-15=-32/0, 1-2=0/0,
2-3=-2050/0, 3-4=-3545/0, 4-5=-3545/0,
5-6=-4440/0, 6-7=-4765/0, 7-8=-4765/0,
8-9=-4424/0, 9-11=-3539/0, 11-12=-3539/0,
12-13=-2050/0, 13-14=0/0
BOT CHORD 25-26=0/1187, 24-25=0/2887, 22-24=0/4084,
21-22=0/4765, 20-21=0/4765, 19-20=0/4751,
18-19=0/4751, 17-18=0/4103, 16-17=0/2887,
15-16=0/1186
WEBS 6-21=-113/252, 7-20=-175/25, 2-26=-1489/0,
2-25=0/1124, 3-25=-1090/0, 3-24=0/840,
4-24=-71/0, 5-24=-688/0, 5-22=0/576,
6-22=-695/0, 13-15=-1489/0, 13-16=0/1124,
12-16=-1090/0, 12-17=0/832, 11-17=-53/0,
9-17=-720/0, 9-18=0/418, 8-18=-418/0,
8-19=-53/126, 8-20=-364/506

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Required 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 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



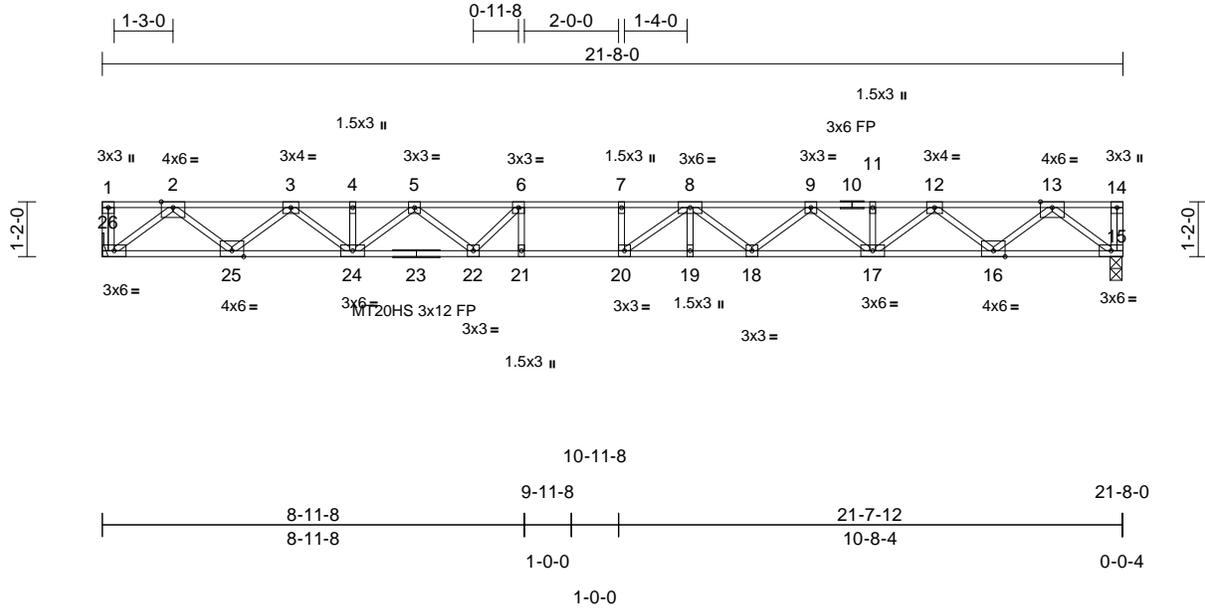
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F2	Truss Type Floor	Qty 3	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869756
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:24
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Page: 1



Scale = 1:48.7

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.44	19-20	>582	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.61	19-20	>423	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.08	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 111 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

- REACTIONS** (size) 15=0-3-0, 26= Mechanical
Max Grav 15=942 (LC 1), 26=942 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-26=-32/0, 14-15=-32/0, 1-2=0/0, 2-3=-2050/0, 3-4=-3545/0, 4-5=-3545/0, 5-6=-4440/0, 6-7=-4765/0, 7-8=-4765/0, 8-9=-4424/0, 9-11=-3539/0, 11-12=-3539/0, 12-13=-2050/0, 13-14=0/0
- BOT CHORD 25-26=0/1187, 24-25=0/2887, 22-24=0/4084, 21-22=0/4765, 20-21=0/4765, 19-20=0/4751, 18-19=0/4751, 17-18=0/4103, 16-17=0/2887, 15-16=0/1186
- WEBS 6-21=-113/252, 7-20=-175/25, 2-26=-1489/0, 2-25=0/1124, 3-25=-1090/0, 3-24=0/840, 4-24=-71/0, 5-24=-688/0, 5-22=0/576, 6-22=-695/0, 13-15=-1489/0, 13-16=0/1124, 12-16=-1090/0, 12-17=0/832, 11-17=-53/0, 9-17=-720/0, 9-18=0/418, 8-18=-418/0, 8-19=-53/126, 8-20=-364/506

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- Required 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 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



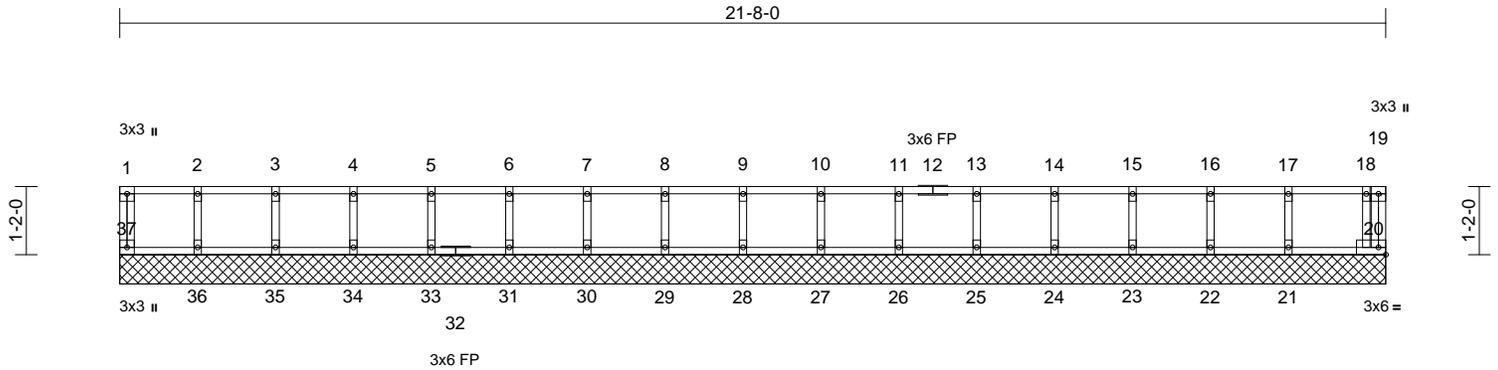
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2FGE1	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869758
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:34
ID:lghLyEz1jclQQZEIPakBGy8MTx-RfC?PsB70Hq3NSgPqnL8w3uITxBGKwRCDoi7J4zJC7f

Page: 1



Scale = 1:39.2

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	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	YES	WB	0.03	Horiz(TL)	0.00	20	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 92 lb	FT = 20%F, 12%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)

WEBS
2-36=-102/0, 3-35=-108/0, 4-34=-106/0,
5-33=-107/0, 6-31=-107/0, 7-30=-107/0,
8-29=-107/0, 9-28=-107/0, 10-27=-107/0,
11-26=-107/0, 13-25=-107/0, 14-24=-106/0,
15-23=-107/0, 16-22=-105/0, 17-21=-114/0,
18-20=-74/0

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.

NOTES

- 1) All plates are 1.5x3 (||) 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 1-4-0 oc.
- 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.

REACTIONS (size) 20=21-8-0, 21=21-8-0, 22=21-8-0, 23=21-8-0, 24=21-8-0, 25=21-8-0, 26=21-8-0, 27=21-8-0, 28=21-8-0, 29=21-8-0, 30=21-8-0, 31=21-8-0, 33=21-8-0, 34=21-8-0, 35=21-8-0, 36=21-8-0, 37=21-8-0
Max Grav 20=68 (LC 1), 21=128 (LC 1), 22=114 (LC 1), 23=118 (LC 1), 24=117 (LC 1), 25=117 (LC 1), 26=117 (LC 1), 27=117 (LC 1), 28=117 (LC 1), 29=117 (LC 1), 30=117 (LC 1), 31=117 (LC 1), 33=117 (LC 1), 34=117 (LC 1), 35=119 (LC 1), 36=110 (LC 1), 37=54 (LC 1)

LOAD CASE(S) Standard

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-37=-47/0, 19-20=0/9, 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, 11-13=-12/0, 13-14=-12/0, 14-15=-12/0, 15-16=-12/0, 16-17=-12/0, 17-18=-12/0, 18-19=-2/0
BOT CHORD 36-37=0/12, 35-36=0/12, 34-35=0/12, 33-34=0/12, 31-33=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



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



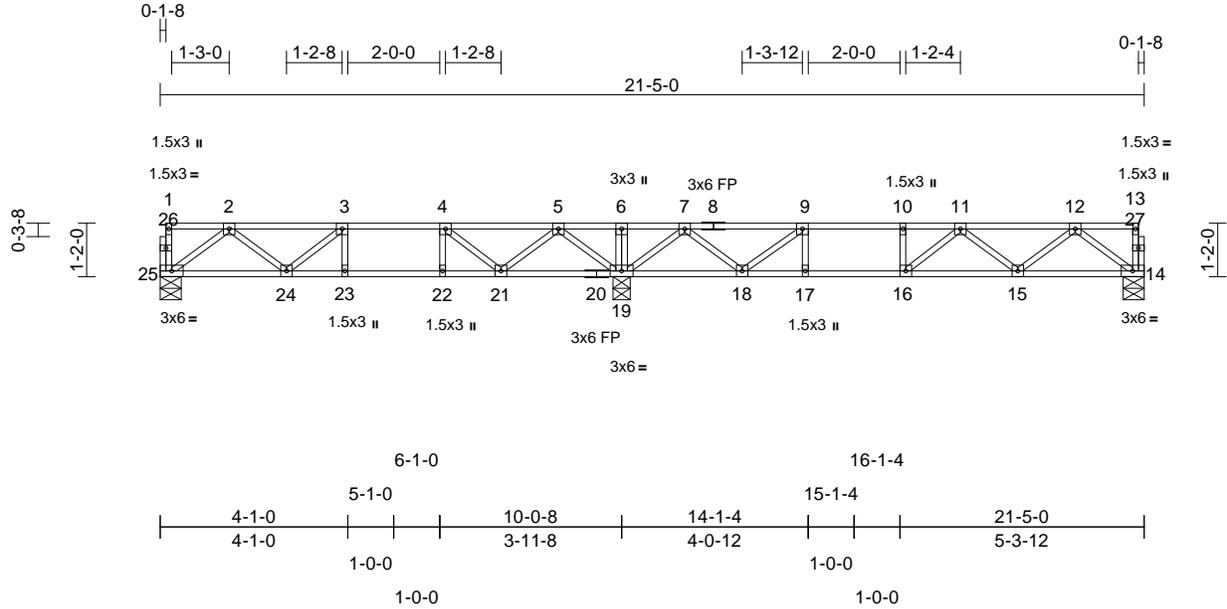
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1F5	Truss Type Floor	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869759
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:17
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Page: 1



Scale = 1:49.9

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.09	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	Vert(CT)	-0.12	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S						Weight: 106 lb	FT = 20%F, 12%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, Except: 6-0-0 oc bracing: 19-21,18-19.

REACTIONS (size) 14=0-5-8, 19=0-4-8, 25=0-5-8
 Max Grav 14=467 (LC 7), 19=1025 (LC 1), 25=405 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-25=-24/0, 13-14=-29/0, 1-2=-1/0, 2-3=-716/0, 3-4=-900/0, 4-5=-598/9, 5-6=0/564, 6-7=0/564, 7-9=-740/0, 9-10=-1165/0, 10-11=-1165/0, 11-12=-880/0, 12-13=-2/0
 BOT CHORD 24-25=0/493, 23-24=0/900, 22-23=0/900, 21-22=0/900, 19-21=-131/308, 18-19=-102/377, 17-18=0/1165, 16-17=0/1165, 15-16=0/1142, 14-15=0/572
 WEBS 3-23=-88/10, 4-22=0/113, 6-19=-95/0, 9-17=0/128, 10-16=-74/20, 5-19=-718/0, 5-21=0/440, 4-21=-483/0, 7-19=-797/0, 7-18=0/533, 9-18=-622/0, 12-14=-716/0, 12-15=0/401, 11-15=-341/0, 11-16=-105/128, 2-25=-617/0, 2-24=0/290, 3-24=-238/14

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x3 (=) MT20 unless otherwise indicated.
 - 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.
 - 4) CAUTION, Do not erect truss backwards.



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



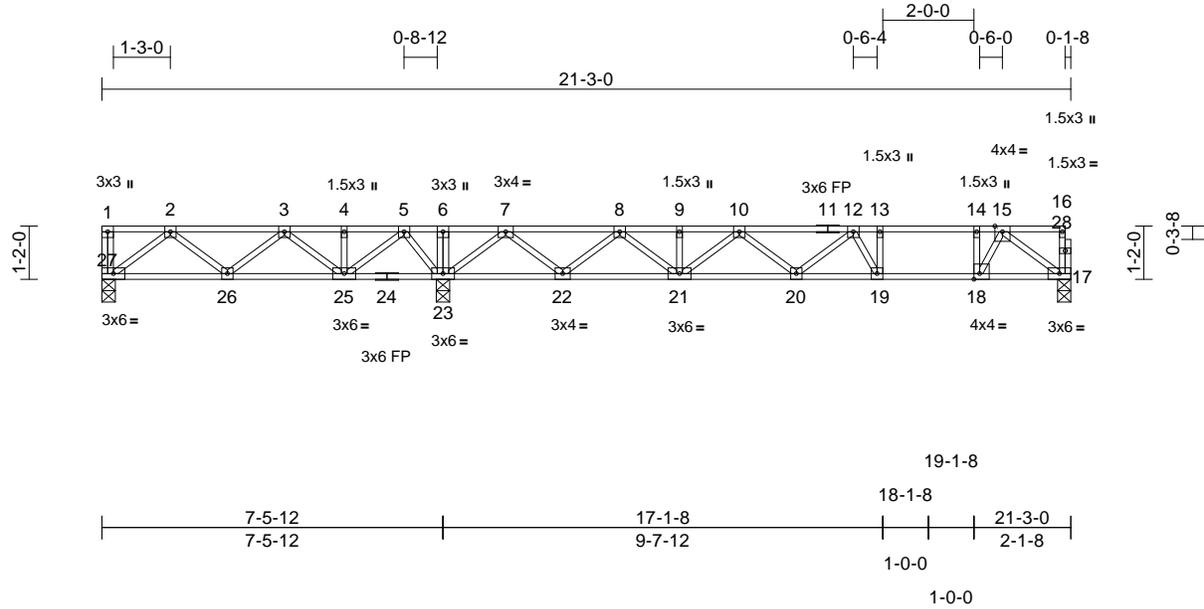
818 Soundside Road
 Edenton, NC 27932

Job 2503-4262-A	Truss 2F12	Truss Type Floor	Qty 5	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869761
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:28
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Page: 1



Scale = 1:50.3

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.13	19-20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.17	19-20	>963	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	-0.01	23	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 111 lb	FT = 20%F, 12%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 6-0-0 oc bracing.

REACTIONS (size) 17=0-3-8, 23=0-3-8, 27=0-3-8
Max Uplift 27=-145 (LC 4)
Max Grav 17=378 (LC 4), 23=1127 (LC 1), 27=194 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-27=-25/0, 16-17=-50/0, 1-2=0/0,
2-3=-227/428, 3-4=-24/971, 4-5=-24/971,
5-6=0/1615, 6-7=0/1616, 7-8=0/342,
8-9=-580/0, 9-10=-580/0, 10-12=-930/0,
12-13=-759/0, 13-14=-759/0, 14-15=-759/0,
15-16=-3/0
BOT CHORD 26-27=-205/213, 25-26=-675/216,
23-25=-1300/0, 22-23=-860/0,
21-22=-21/245, 20-21=0/846, 19-20=0/938,
18-19=0/759, 17-18=0/469
WEBS 6-23=-64/0, 13-19=-14/232, 14-18=-433/0,
2-27=-268/258, 2-26=-290/17, 3-26=0/322,
3-25=-494/0, 7-23=-956/0, 7-22=0/687,
8-22=-660/0, 8-21=0/438, 9-21=-46/0,
10-21=-351/0, 10-20=0/122, 12-20=-76/0,
12-19=-368/0, 15-17=-585/0, 15-18=0/612,
4-25=-67/0, 5-25=0/620, 5-23=-599/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 (=) MT20 unless otherwise indicated.

- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 27. This connection is for uplift only and does not consider lateral forces.
- 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



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



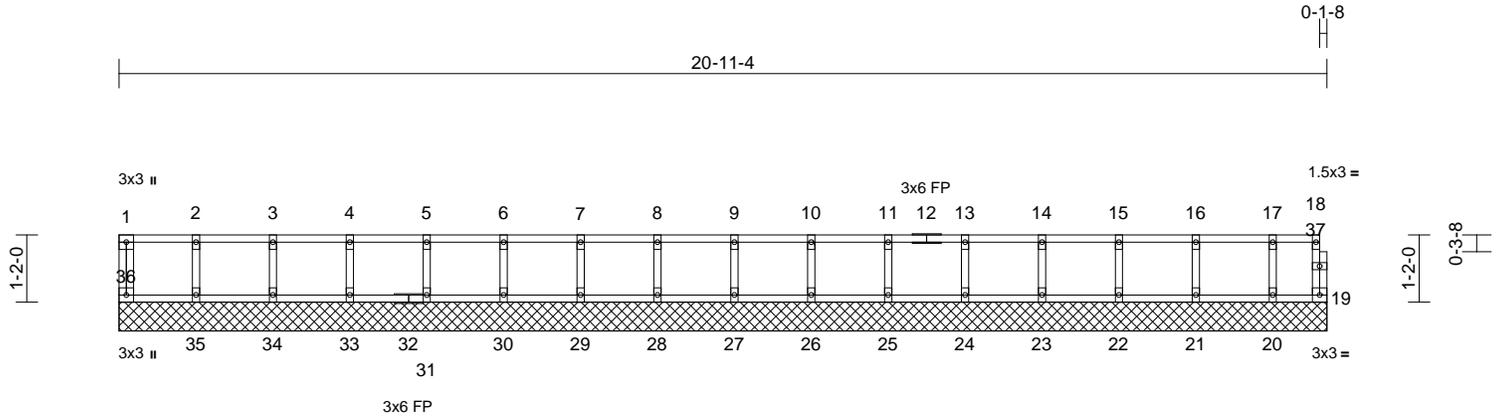
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2FGE3	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869763
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:35
ID:9Flq_HrKe_wHulpYXkRpy8MTu-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.7

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	19	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 88 lb	FT = 20%F, 12%E

LUMBER	WEBS
TOP CHORD 2x4 SP No.2(flat)	2-35=-88/0, 3-34=-89/0, 4-33=-89/0,
BOT CHORD 2x4 SP No.2(flat)	5-31=-89/0, 6-30=-89/0, 7-29=-89/0,
WEBS 2x4 SP No.3(flat)	8-28=-89/0, 9-27=-89/0, 10-26=-89/0,
OTHERS 2x4 SP No.3(flat)	11-25=-89/0, 13-24=-89/0, 14-23=-89/0,
	15-22=-88/0, 16-21=-92/0, 17-20=-74/0

BRACING	NOTES
TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.	1) All plates are 1.5x3 () MT20 unless otherwise indicated.
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.	2) Gable requires continuous bottom chord bearing.
	3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
	4) Gable studs spaced at 1'-4-0 oc.
	5) Recommend 2x6 strongbacks, on edge, spaced at 10'-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
	6) CAUTION, Do not erect truss backwards.

REACTIONS (size)	LOAD CASE(S)
19=20-11-4, 20=20-11-4, 21=20-11-4, 22=20-11-4, 23=20-11-4, 24=20-11-4, 25=20-11-4, 26=20-11-4, 27=20-11-4, 28=20-11-4, 29=20-11-4, 30=20-11-4, 31=20-11-4, 33=20-11-4, 34=20-11-4, 35=20-11-4, 36=20-11-4	Standard
Max Grav 19=22 (LC 1), 20=79 (LC 1), 21=102 (LC 1), 22=97 (LC 1), 23=98 (LC 1), 24=98 (LC 1), 25=98 (LC 1), 26=98 (LC 1), 27=98 (LC 1), 28=98 (LC 1), 29=98 (LC 1), 30=98 (LC 1), 31=98 (LC 1), 33=98 (LC 1), 34=98 (LC 1), 35=98 (LC 1), 36=39 (LC 1)	

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-36=-36/0, 18-19=-18/0, 1-2=-4/0, 2-3=-4/0, 3-4=-4/0, 4-5=-4/0, 5-6=-4/0, 6-7=-4/0, 7-8=-4/0, 8-9=-4/0, 9-10=-4/0, 10-11=-4/0, 11-13=-4/0, 13-14=-4/0, 14-15=-4/0, 15-16=-4/0, 16-17=-4/0, 17-18=-4/0
BOT CHORD 35-36=0/4, 34-35=0/4, 33-34=0/4, 31-33=0/4, 30-31=0/4, 29-30=0/4, 28-29=0/4, 27-28=0/4, 26-27=0/4, 25-26=0/4, 24-25=0/4, 23-24=0/4, 22-23=0/4, 21-22=0/4, 20-21=0/4, 19-20=0/4



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



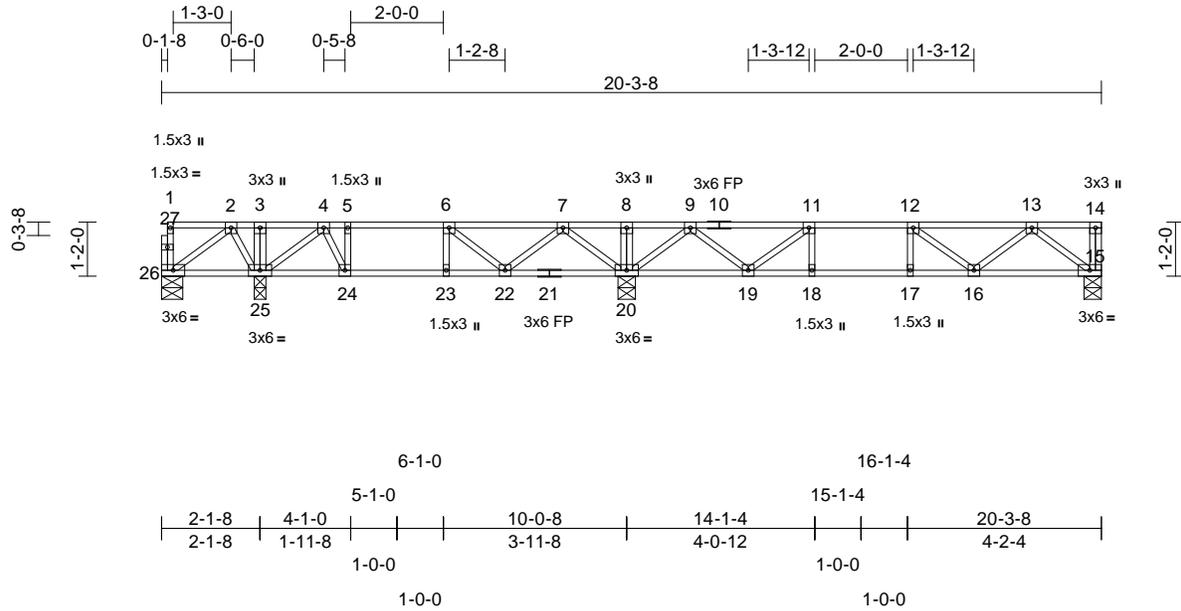
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1F4	Truss Type Floor	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869764
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:17
ID:8nuj2ry3wunhW4_YCX3Ps?zUhi3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:49.5

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.06	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.08	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 105 lb	FT = 20%F, 12%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 6-0-0 oc bracing.

REACTIONS (size) 15=0-4-8, 20=0-4-8, 25=0-3-0, 26=0-5-8
Max Uplift 26=-21 (LC 11)
Max Grav 15=410 (LC 5), 20=931 (LC 4), 25=453 (LC 11), 26=134 (LC 14)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-45/0, 14-15=-24/0, 1-2=-3/0, 2-3=-108/186, 3-4=-107/187, 4-5=-531/30, 5-6=-531/30, 6-7=-357/109, 7-8=0/710, 8-9=0/710, 9-11=-544/83, 11-12=-895/0, 12-13=-712/0, 13-14=0/0
BOT CHORD 25-26=-91/109, 24-25=-40/410, 23-24=-30/531, 22-23=-30/531, 20-22=-203/146, 19-20=-223/233, 18-19=0/895, 17-18=0/895, 16-17=0/895, 15-16=0/498
WEBS 3-25=-91/0, 5-24=-195/0, 6-23=-26/20, 8-20=-77/0, 11-18=0/123, 12-17=-98/0, 2-26=-133/118, 2-25=-181/51, 4-25=-382/0, 4-24=0/271, 7-20=-636/0, 7-22=0/325, 6-22=-296/0, 9-20=-745/0, 9-19=0/453, 11-19=-517/0, 13-15=-624/0, 13-16=0/278, 12-16=-230/41

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x3 (=) MT20 unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 25.

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 26.
- 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 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



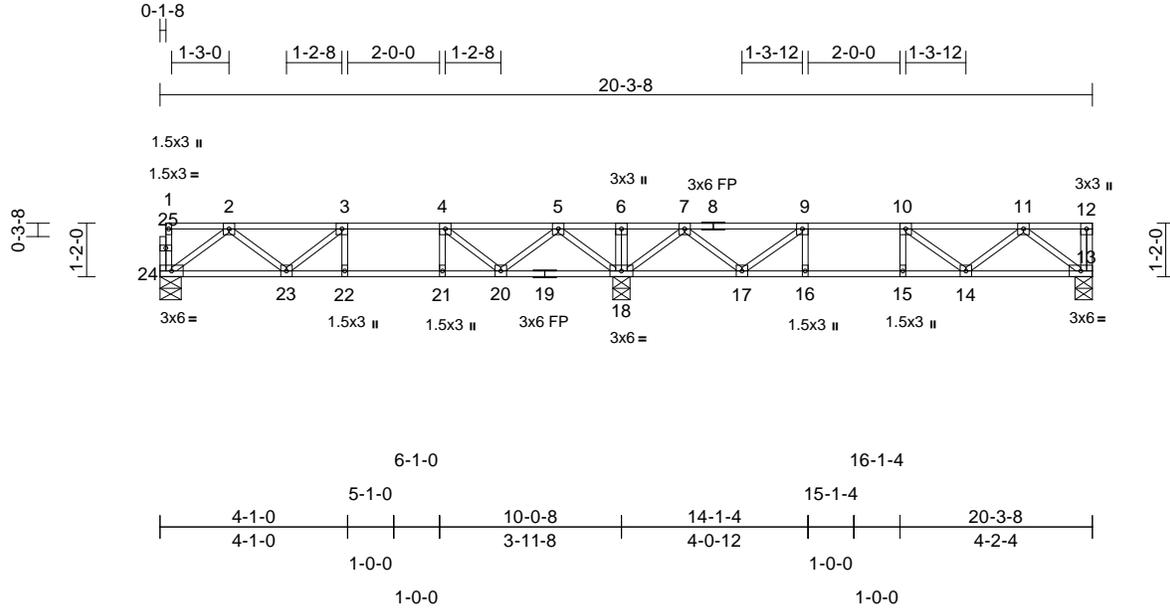
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1F1	Truss Type Floor	Qty 7	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869766
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:15
ID:XtcheEvqwF9sgunSSpqRjzewlJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:49.9

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.05	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.06	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.02	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 101 lb	FT = 20%F, 12%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, Except: 6-0-0 oc bracing: 18-20,17-18.

- REACTIONS** (size) 13=0-4-8, 18=0-4-8, 24=0-5-8
Max Grav 13=351 (LC 7), 18=814 (LC 1), 24=340 (LC 10)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-24=-21/0, 12-13=-21/0, 1-2=-1/0, 2-3=-602/0, 3-4=-760/0, 4-5=-514/0, 5-6=0/462, 6-7=0/462, 7-9=-521/0, 9-10=-792/0, 10-11=-617/0, 11-12=0/0
 - BOT CHORD 23-24=0/413, 22-23=0/760, 21-22=0/760, 20-21=0/760, 18-20=-101/275, 17-18=-91/276, 16-17=0/792, 15-16=0/792, 14-15=0/792, 13-14=0/426
 - WEBS 3-22=-73/10, 4-21=0/93, 6-18=-71/0, 9-16=0/91, 10-15=-70/14, 2-24=-517/0, 2-23=0/245, 3-23=-204/9, 5-18=-601/0, 5-20=0/369, 4-20=-405/0, 7-18=-614/0, 7-17=0/371, 9-17=-422/0, 11-13=-534/0, 11-14=0/250, 10-14=-219/2

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x3 (=) MT20 unless otherwise indicated.
 - 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.



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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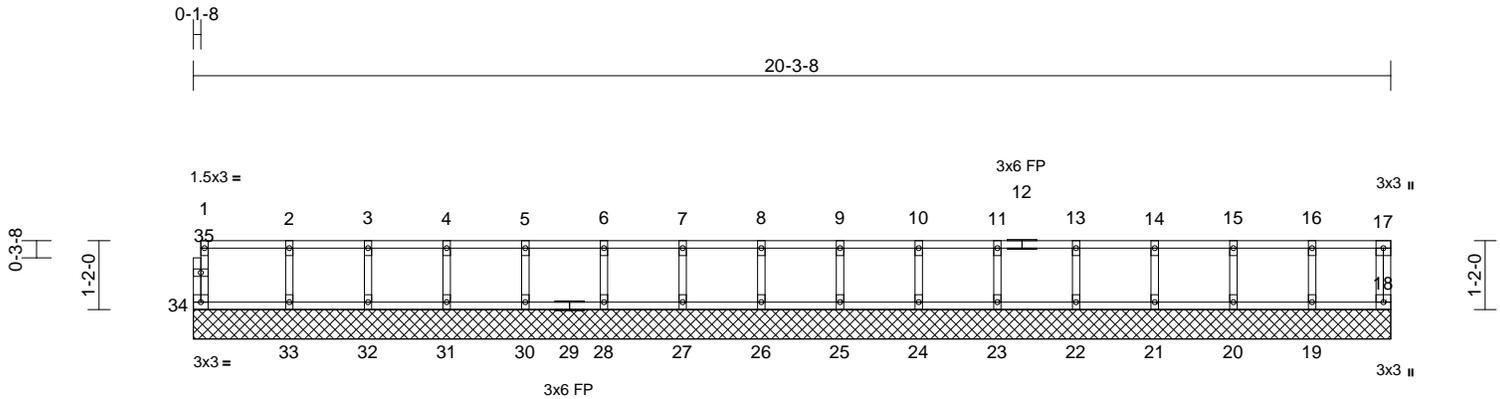


Job 2503-4262-A	Truss 1FGE1	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869767
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:21
ID:3FAaEjRY1YmQ2blgQXRSZBzewXj-RfC?PsB70Hq3NSgPqnl8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.9

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	18	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 84 lb	FT = 20%F, 12%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)

18=20-3-8, 19=20-3-8, 20=20-3-8, 21=20-3-8, 22=20-3-8, 23=20-3-8, 24=20-3-8, 25=20-3-8, 26=20-3-8, 27=20-3-8, 28=20-3-8, 30=20-3-8, 31=20-3-8, 32=20-3-8, 33=20-3-8, 34=20-3-8
Max Grav 18=44 (LC 1), 19=92 (LC 1), 20=99 (LC 1), 21=97 (LC 1), 22=98 (LC 1), 23=98 (LC 1), 24=98 (LC 1), 25=98 (LC 1), 26=98 (LC 1), 27=98 (LC 1), 28=98 (LC 1), 30=98 (LC 1), 31=99 (LC 1), 32=95 (LC 1), 33=109 (LC 1), 34=48 (LC 1)

- All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-34=-45/0, 17-18=-39/0, 1-2=-9/0, 2-3=-9/0, 3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0, 7-8=-9/0, 8-9=-9/0, 9-10=-9/0, 10-11=-9/0, 11-13=-9/0, 13-14=-9/0, 14-15=-9/0, 15-16=-9/0, 16-17=-9/0
BOT CHORD 33-34=0/9, 32-33=0/9, 31-32=0/9, 30-31=0/9, 28-30=0/9, 27-28=0/9, 26-27=0/9, 25-26=0/9, 24-25=0/9, 23-24=0/9, 22-23=0/9, 21-22=0/9, 20-21=0/9, 19-20=0/9, 18-19=0/9
WEBS 16-19=-85/0, 15-20=-90/0, 14-21=-89/0, 13-22=-89/0, 11-23=-89/0, 10-24=-89/0, 9-25=-89/0, 8-26=-89/0, 7-27=-89/0, 6-28=-89/0, 5-30=-89/0, 4-31=-90/0, 3-32=-86/0, 2-33=-98/0

NOTES



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



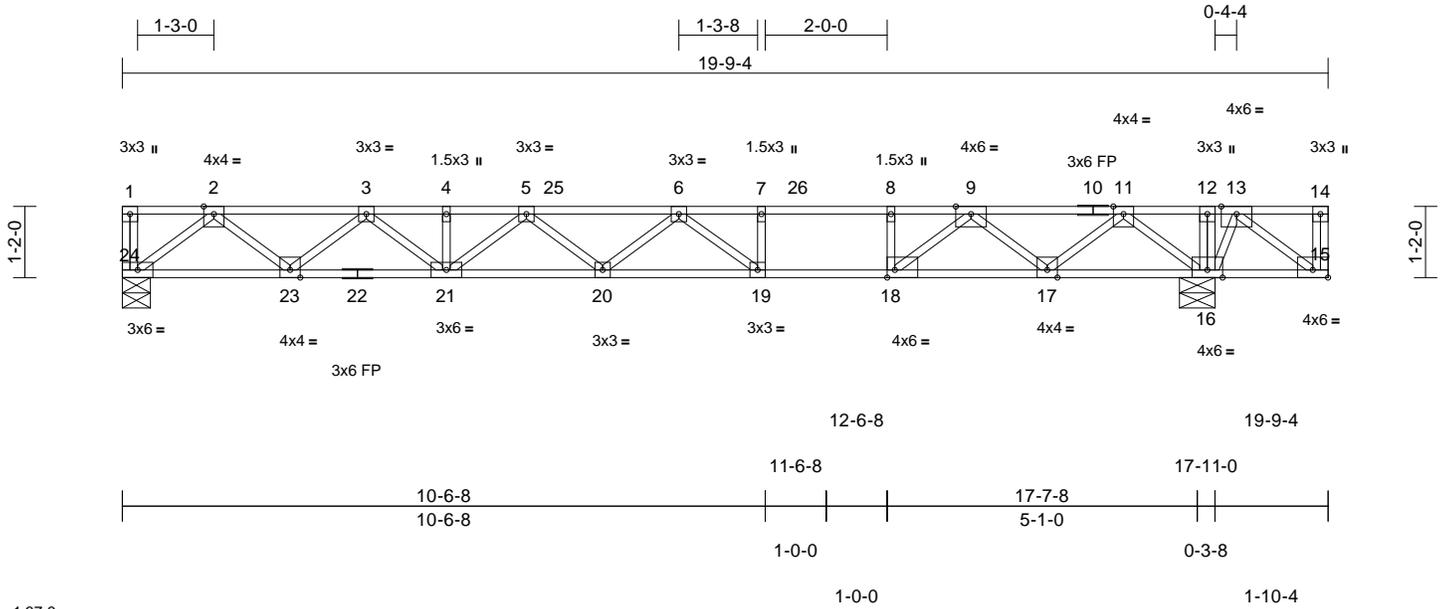
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F25	Truss Type Floor Girder	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869768
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:32
ID:8mc0MWOPXz71SZzqE1a_ZszvBP3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:37.6
Plate Offsets (X, Y): [15:Edge,0-1-8], [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-8-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.33	19-20	>641	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.49	19-20	>435	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.05	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 103 lb	FT = 20%F, 12%E

LUMBER
TOP CHORD 2x4 SP SS(flat) *Except* 10-14:2x4 SP No.2 (flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 22-15:2x4 SP SS (flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS (size) 16=0-7-0, 24=0-5-8
Max Grav 16=1904 (LC 1), 24=804 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-24=-33/0, 14-15=-844/0, 1-2=0/0, 2-3=-1694/0, 3-4=-2802/0, 4-5=-2802/0, 5-6=-3333/0, 6-7=-2902/6, 7-8=-2902/6, 8-9=-2902/6, 9-11=-1238/841, 11-12=0/1563, 12-13=0/1563, 13-14=0/0
BOT CHORD 23-24=0/1005, 21-23=0/2348, 20-21=0/3182, 19-20=0/3363, 18-19=-6/2902, 17-18=-484/2038, 16-17=-1160/513, 15-16=-1110/0
WEBS 7-19=-17/313, 8-18=-586/0, 12-16=-56/0, 2-24=-1260/0, 2-23=0/897, 3-23=-851/0, 3-21=0/580, 4-21=-66/0, 5-21=-485/0, 5-20=-27/205, 6-20=-129/160, 6-19=-901/0, 11-16=-1413/0, 11-17=0/1025, 9-17=-1152/0, 9-18=0/1386, 13-15=0/1393, 13-16=-1050/0

- 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.
 - 4) CAUTION, Do not erect truss backwards.
 - 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down at 19-7-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 15-24=-8, 1-25=-83, 25-26=-98, 14-26=-83
Concentrated Loads (lb)
Vert: 14=-800 (F=-700)

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

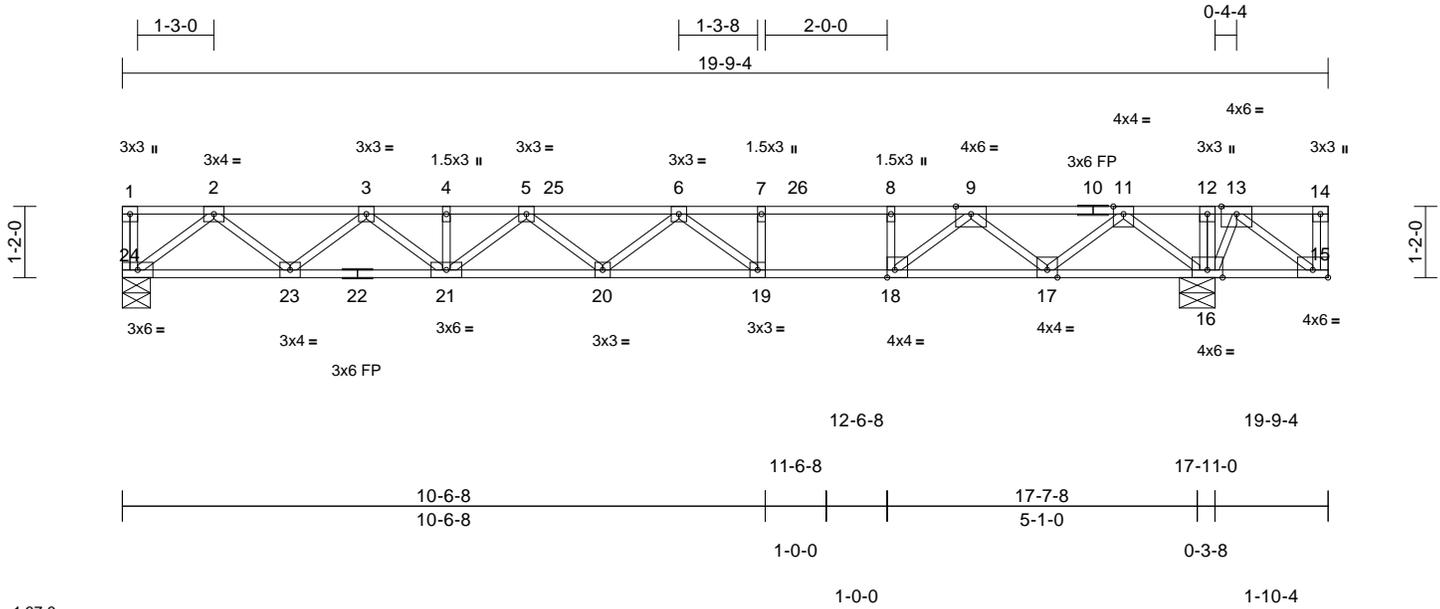
TRENCO ENGINEERING BY
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F24A	Truss Type Floor	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869769
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:32
ID:BhD_FilW17SRq8pm9vVfbzvBRI-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:37.6
Plate Offsets (X, Y): [15:Edge,0-1-8], [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-8-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.33	19-20	>641	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.46	19-20	>465	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.05	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 103 lb	FT = 20%F, 12%E

LUMBER
TOP CHORD 2x4 SP SS(flat) *Except* 10-14:2x4 SP No.2 (flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 22-15:2x4 SP SS (flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS (size) 16=0-7-0, 24=0-5-8
Max Grav 16=1937 (LC 1), 24=775 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-24=-33/0, 14-15=-896/0, 1-2=0/0, 2-3=-1620/0, 3-4=-2657/0, 4-5=-2657/0, 5-6=-3120/0, 6-7=-2694/214, 7-8=-2694/214, 8-9=-2694/214, 9-11=-1099/980, 11-12=0/1657, 12-13=0/1656, 13-14=0/0
BOT CHORD 23-24=0/966, 21-23=0/2239, 20-21=0/2995, 19-20=0/3129, 18-19=-214/2694, 17-18=-649/1873, 16-17=-1278/395, 15-16=-1179/0
WEBS 7-19=-27/304, 8-18=-564/0, 12-16=-57/0, 2-24=-1212/0, 2-23=0/851, 3-23=-806/0, 3-21=0/534, 4-21=-70/0, 5-21=-431/25, 5-20=-61/170, 6-20=-102/187, 6-19=-867/0, 11-16=-1381/0, 11-17=0/999, 9-17=-1118/0, 9-18=0/1331, 13-15=0/1479, 13-16=-1106/0

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.
4) CAUTION, Do not erect truss backwards.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down at 19-7-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 15-24=-8, 1-25=-83, 25-26=-86, 14-26=-83
Concentrated Loads (lb)
Vert: 14=-852 (F=-700)

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.



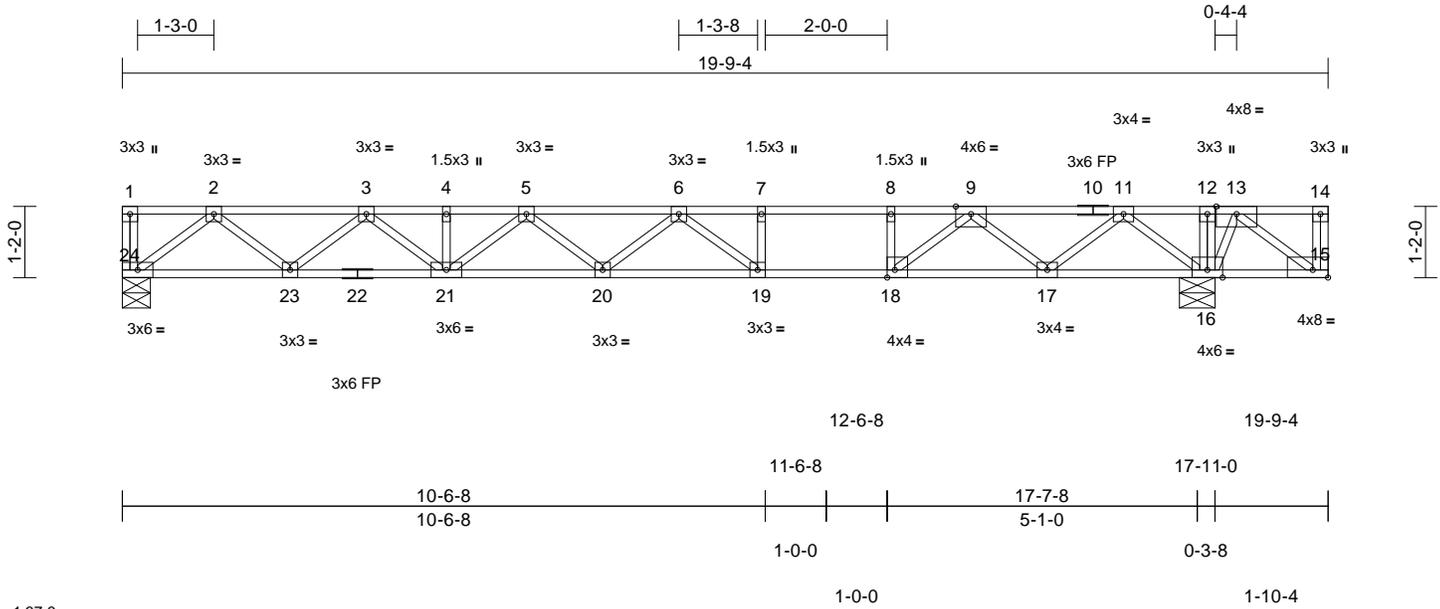
April 21, 2025

Job 2503-4262-A	Truss 2F24	Truss Type Floor	Qty 2	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869770
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:31
ID:BhD_FilW17SRq8pm9vVfbbzvBRI-RfC?PsB70Hq3NSgPqnL8w3uITxBGKwRcDoi7J4zJC7f

Page: 1



Scale = 1:37.6

Plate Offsets (X, Y): [15:Edge,0-1-8], [18:0-1-8,Edge]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.81	Vert(LL)	-0.26	19-20	>801	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.36	19-20	>596	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.03	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 103 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat) *Except* 10-14:2x4 SP No.2 (flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 22-15:2x4 SP SS (flat)

WEBS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 23-24,21-23.

REACTIONS (size) 16=0-7-0, 24=0-5-8
Max Grav 16=1981 (LC 1), 24=585 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-24=-26/0, 14-15=-1109/0, 1-2=0/0,
2-3=-1209/0, 3-4=-1953/0, 4-5=-1953/0,
5-6=-2245/142, 6-7=-1795/649,
7-8=-1795/649, 8-9=-1795/649,
9-11=-420/1400, 11-12=0/2024,
12-13=0/2023, 13-14=0/0

BOT CHORD 23-24=0/727, 21-23=0/1662, 20-21=-57/2180,
19-20=-303/2207, 18-19=-649/1795,
17-18=-1082/1078, 16-17=-1678/0,
15-16=-1457/0

WEBS 7-19=0/288, 8-18=-494/0, 12-16=-52/0,
2-24=-913/0, 2-23=0/627, 3-23=-590/14,
3-21=-60/372, 4-21=-58/0, 5-21=-289/93,
5-20=-110/90, 6-20=-24/227, 6-19=-806/0,
11-16=-1159/0, 11-17=0/850, 9-17=-964/0,
9-18=0/1173, 13-15=0/1828, 13-16=-1312/0

- 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.
- 4) CAUTION, Do not erect truss backwards.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down at 19-7-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 15-24=-7, 1-14=-67
Concentrated Loads (lb)
Vert: 14=-1075 (F=-700)

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



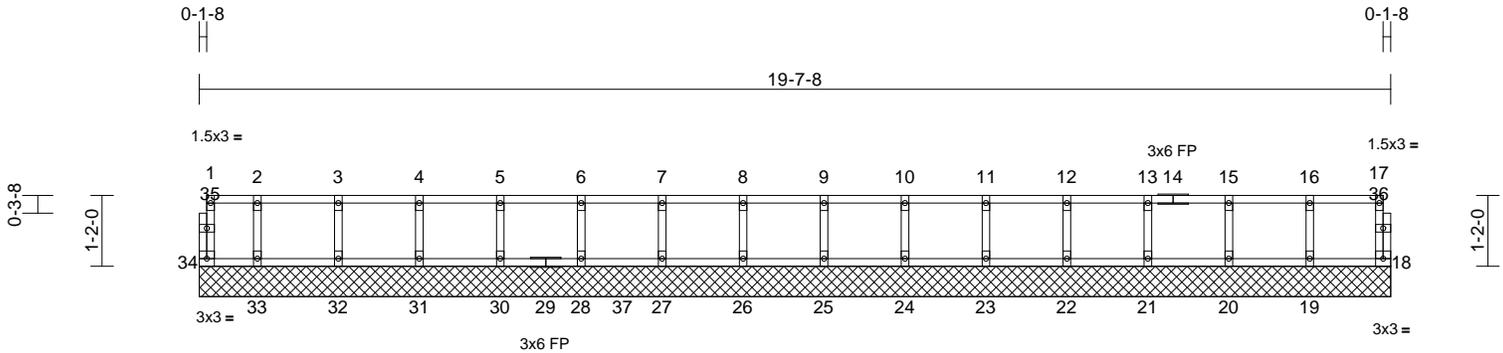
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1FGE6	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869771
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:22
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Page: 1



Scale = 1:37.8

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	0.09	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	NO	WB	0.03	Horiz(TL)	0.00	18	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 82 lb	FT = 20%F, 12%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)

18=19-7-8, 19=19-7-8, 20=19-7-8, 21=19-7-8, 22=19-7-8, 23=19-7-8, 24=19-7-8, 25=19-7-8, 26=19-7-8, 27=19-7-8, 28=19-7-8, 30=19-7-8, 31=19-7-8, 32=19-7-8, 33=19-7-8, 34=19-7-8

Max Grav 18=53 (LC 1), 19=147 (LC 1), 20=147 (LC 1), 21=147 (LC 1), 22=147 (LC 1), 23=147 (LC 1), 24=146 (LC 1), 25=147 (LC 1), 26=144 (LC 1), 27=158 (LC 1), 28=158 (LC 1), 30=145 (LC 1), 31=146 (LC 1), 32=152 (LC 1), 33=120 (LC 1), 34=37 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-34=-32/0, 17-18=-49/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0, 8-9=-7/0, 9-10=-7/0, 10-11=-7/0, 11-12=-7/0, 12-13=-7/0, 13-15=-7/0, 15-16=-7/0, 16-17=-7/0
BOT CHORD	33-34=0/7, 32-33=0/7, 31-32=0/7, 30-31=0/7, 28-30=0/7, 27-28=0/7, 26-27=0/7, 25-26=0/7, 24-25=0/7, 23-24=0/7, 22-23=0/7, 21-22=0/7, 20-21=0/7, 19-20=0/7, 18-19=0/7
WEBS	16-19=-132/0, 15-20=-134/0, 13-21=-133/0, 12-22=-133/0, 11-23=-133/0, 10-24=-133/0, 9-25=-133/0, 8-26=-133/0, 7-27=-133/0, 6-28=-133/0, 5-30=-134/0, 4-31=-132/0, 3-32=-138/0, 2-33=-112/0

NOTES

- 1) All plates are 1.5x3 (||) 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 1-4-0 oc.
- 5) Load case(s) 1 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.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 18-34=-10, 1-17=-100
Concentrated Loads (lb)
Vert: 1=-3, 37=-19



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



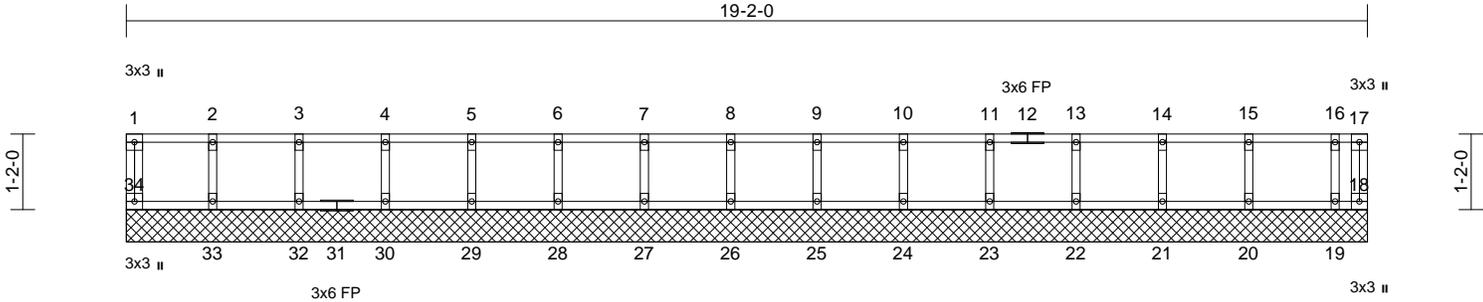
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2FGE2	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869772
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:34
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Page: 1



Scale = 1:35.4

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	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	YES	WB	0.03	Horiz(TL)	0.00	18	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 82 lb	FT = 20%F, 12%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)

18=19-2-0, 19=19-2-0, 20=19-2-0, 21=19-2-0, 22=19-2-0, 23=19-2-0, 24=19-2-0, 25=19-2-0, 26=19-2-0, 27=19-2-0, 28=19-2-0, 29=19-2-0, 30=19-2-0, 32=19-2-0, 33=19-2-0, 34=19-2-0	
Max Grav	18=7 (LC 1), 19=80 (LC 1), 20=122 (LC 1), 21=116 (LC 1), 22=118 (LC 1), 23=117 (LC 1), 24=117 (LC 1), 25=117 (LC 1), 26=117 (LC 1), 27=117 (LC 1), 28=117 (LC 1), 29=117 (LC 1), 30=117 (LC 1), 32=117 (LC 1), 33=118 (LC 1), 34=47 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-34=-44/0, 17-18=0/0, 1-2=-5/0, 2-3=-5/0, 3-4=-5/0, 4-5=-5/0, 5-6=-5/0, 6-7=-5/0, 7-8=-5/0, 8-9=-5/0, 9-10=-5/0, 10-11=-5/0, 11-13=-5/0, 13-14=-5/0, 14-15=-5/0, 15-16=-5/0, 16-17=-5/0
BOT CHORD	33-34=0/5, 32-33=0/5, 30-32=0/5, 29-30=0/5, 28-29=0/5, 27-28=0/5, 26-27=0/5, 25-26=0/5, 24-25=0/5, 23-24=0/5, 22-23=0/5, 21-22=0/5, 20-21=0/5, 19-20=0/5, 18-19=0/5
WEBS	2-33=-106/0, 3-32=-107/0, 4-30=-107/0, 5-29=-107/0, 6-28=-107/0, 7-27=-107/0, 8-26=-107/0, 9-25=-107/0, 10-24=-107/0, 11-23=-107/0, 13-22=-107/0, 14-21=-106/0, 15-20=-111/0, 16-19=-80/0

NOTES

- 1) All plates are 1.5x3 (||) 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 1-4-0 oc.
- 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 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



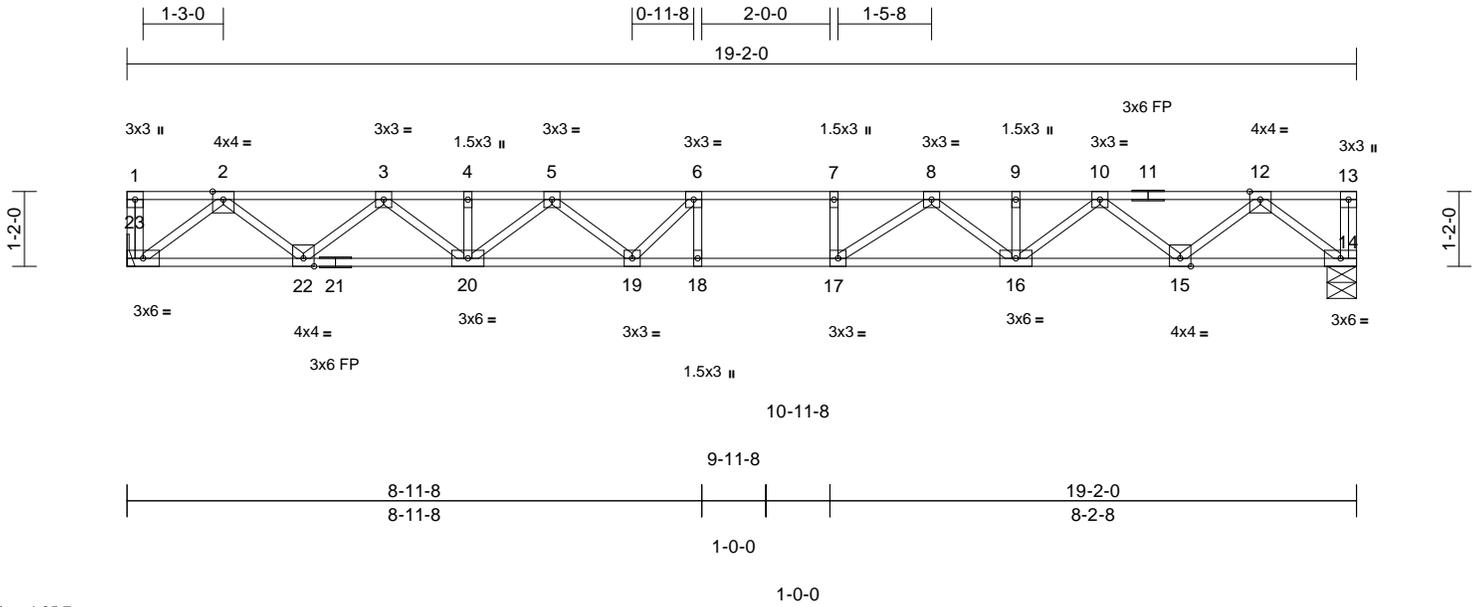
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F10	Truss Type Floor	Qty 7	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869773
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:28
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Page: 1



Scale = 1:35.7

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.32	18	>715	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.44	18	>522	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 98 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat) *Except* 21-14:2x4 SP SS (flat)
 WEBS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 14=0-5-8, 23= Mechanical
 Max Grav 14=832 (LC 1), 23=832 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-23=-32/0, 13-14=-31/0, 1-2=0/0,
 2-3=-1775/0, 3-4=-2992/0, 4-5=-2992/0,
 5-6=-3617/0, 6-7=-3732/0, 7-8=-3732/0,
 8-9=-2995/0, 9-10=-2995/0, 10-12=-1776/0,
 12-13=0/0
 BOT CHORD 22-23=0/1042, 20-22=0/2480, 19-20=0/3420,
 18-19=0/3732, 17-18=0/3732, 16-17=0/3402,
 15-16=0/2478, 14-15=0/1043
 WEBS 6-18=-191/144, 7-17=-224/0, 2-23=-1308/0,
 2-22=0/954, 3-22=-918/0, 3-20=0/654,
 4-20=-50/0, 5-20=-546/0, 5-19=0/397,
 6-19=-451/146, 12-14=-1309/0, 12-15=0/953,
 10-15=-914/0, 10-16=0/660, 9-16=-77/0,
 8-16=-521/0, 8-17=0/642

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 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 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



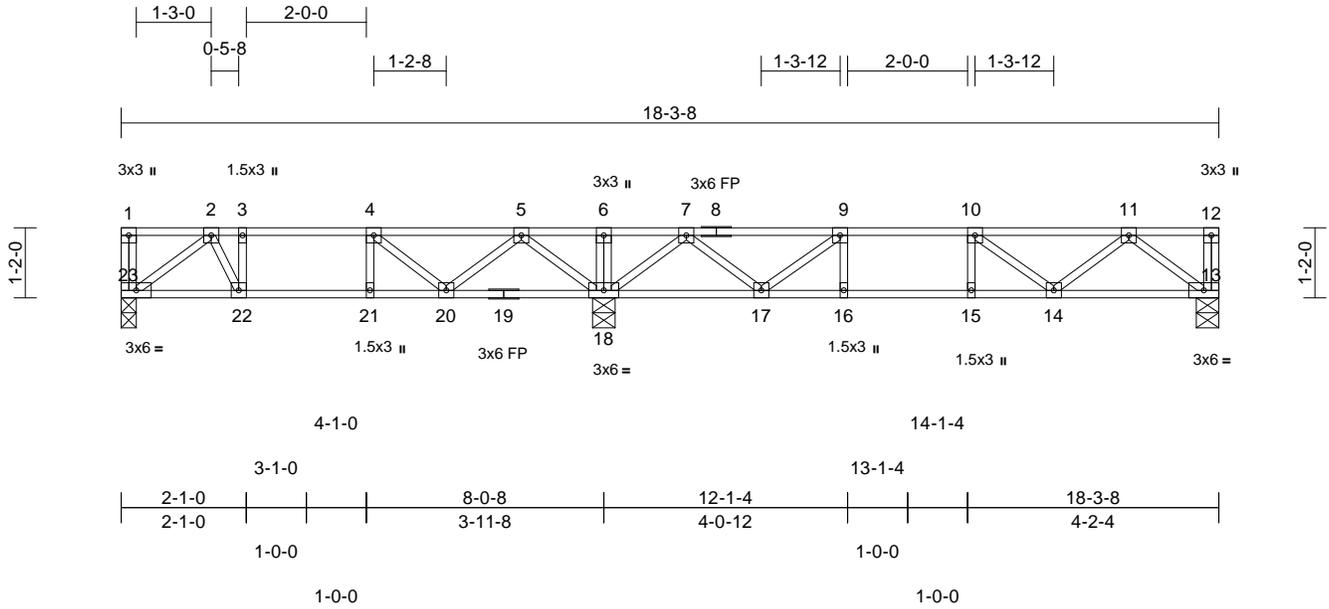
818 Soundside Road
 Edenton, NC 27932

Job 2503-4262-A	Truss 1F3	Truss Type Floor	Qty 12	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869774
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:17
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Page: 1



Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.06	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.08	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 93 lb	FT = 20%F, 12%E

- LUMBER**
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
- BRACING**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 18-20,17-18.
- REACTIONS** (size) 13=0-4-8, 18=0-4-8, 23=0-3-0
Max Grav 13=413 (LC 4), 18=933 (LC 1), 23=299 (LC 10)
- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-23=-50/0, 12-13=-25/0, 1-2=0/0,
2-3=-463/0, 3-4=-463/0, 4-5=-307/54,
5-6=0/684, 6-7=0/684, 7-9=-567/97,
9-10=-910/0, 10-11=-720/0, 11-12=0/0
BOT CHORD 22-23=0/336, 21-22=0/463, 20-21=0/463,
18-20=-169/108, 17-18=-239/261,
16-17=0/910, 15-16=0/910, 14-15=0/910,
13-14=0/501
WEBS 3-22=-202/11, 4-21=-34/33, 6-18=-78/0,
9-16=0/126, 10-15=-101/2, 2-23=-421/0,
2-22=-4/285, 5-18=-646/0, 5-20=0/341,
4-20=-318/0, 7-18=-747/0, 7-17=0/456,
9-17=-522/0, 11-13=-629/0, 11-14=0/284,
10-14=-239/46

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x3 (=) MT20 unless otherwise indicated.
 - 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



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

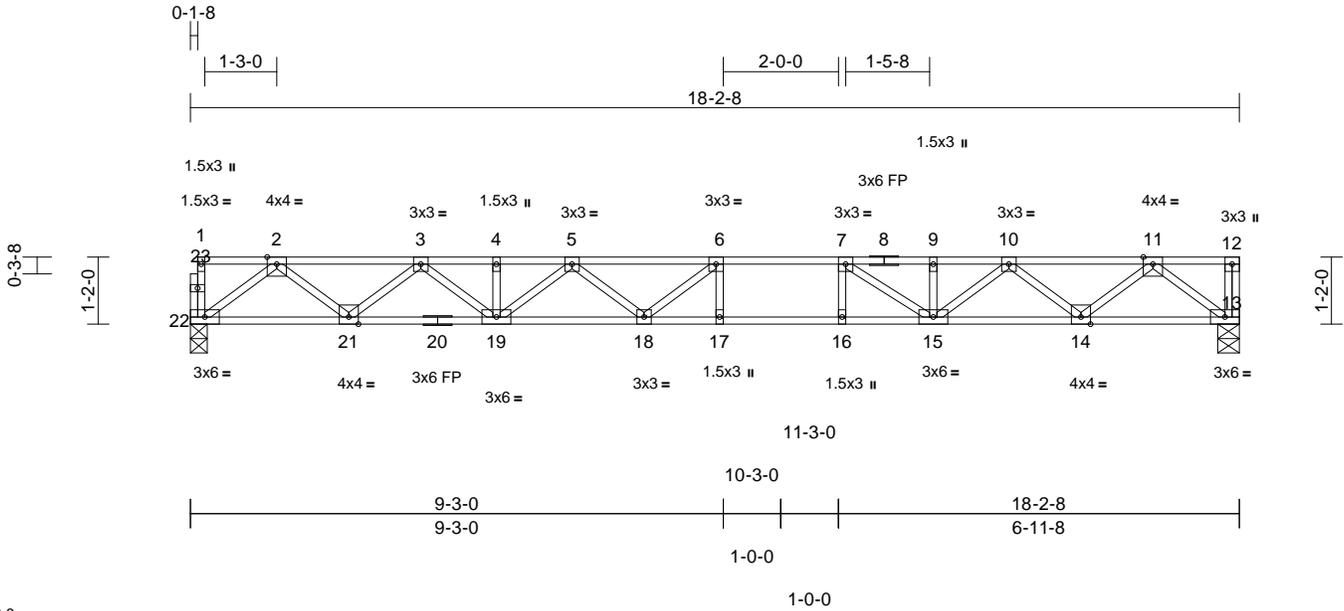
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F6	Truss Type Floor	Qty 5	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869775
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:26
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Page: 1



Scale = 1:39.8

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.29	17-18	>733	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.40	17-18	>534	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 93 lb	FT = 20%F, 12%E

LUMBER

- TOP CHORD 2x4 SP No.2(flat)
- BOT CHORD 2x4 SP No.2(flat) *Except* 20-13:2x4 SP SS (flat)
- WEBS 2x4 SP No.3(flat)
- OTHERS 2x4 SP No.3(flat)

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=0-4-8, 22=0-3-8
Max Grav 13=790 (LC 1), 22=785 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-22=-29/0, 12-13=-32/0, 1-2=-2/0, 2-3=-1670/0, 3-4=-2778/0, 4-5=-2778/0, 5-6=-3298/0, 6-7=-3318/0, 7-9=-2765/0, 9-10=-2765/0, 10-11=-1673/0, 11-12=0/0
 - BOT CHORD 21-22=0/987, 19-21=0/2324, 18-19=0/3178, 17-18=0/3318, 16-17=0/3318, 15-16=0/3318, 14-15=0/2320, 13-14=0/988
 - WEBS 6-17=-217/72, 7-16=-39/221, 2-22=-1236/0, 2-21=0/890, 3-21=-851/0, 3-19=0/579, 4-19=-30/0, 5-19=-511/0, 5-18=0/301, 6-18=-336/213, 11-13=-1240/0, 11-14=0/891, 10-14=-843/0, 10-15=0/567, 9-15=-100/88, 7-15=-848/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- 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



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



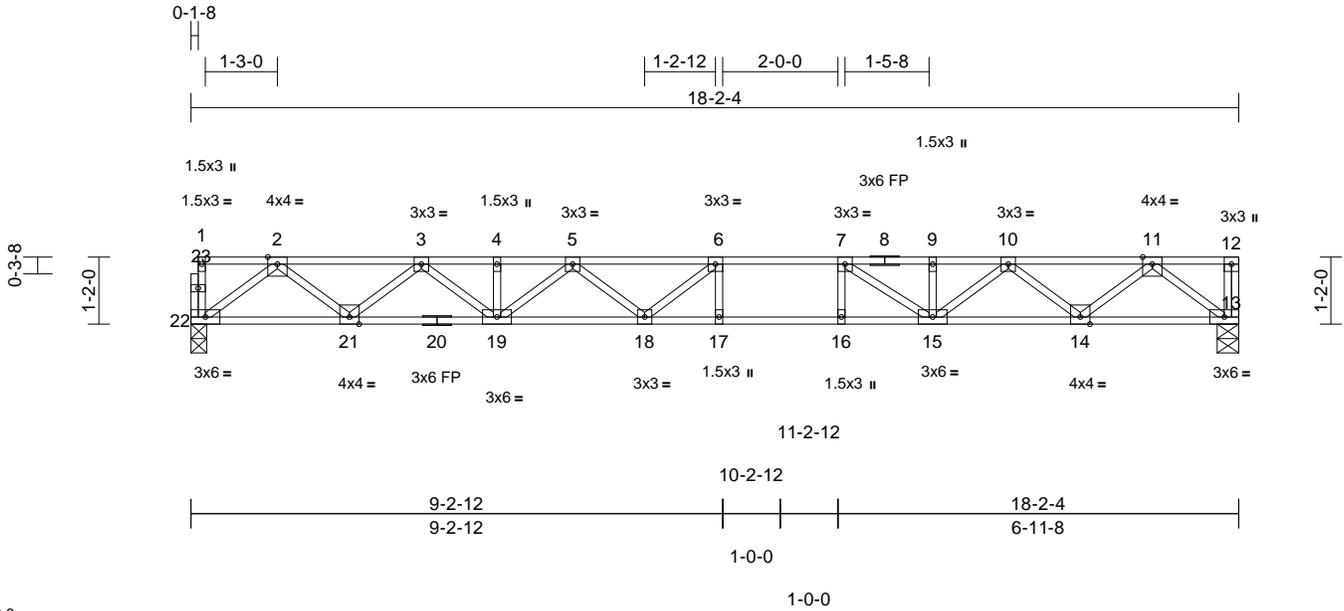
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F5	Truss Type Floor	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869776
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:25
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Page: 1



Scale = 1:39.8

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.67	Vert(LL)	-0.29	17-18	>736	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.40	17-18	>537	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 92 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat) *Except* 20-13:2x4 SP SS (flat)
 WEBS 2x4 SP No.3(flat)
 OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 13=0-4-8, 22=0-3-4
 Max Grav 13=789 (LC 1), 22=784 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-22=-29/0, 12-13=-32/0, 1-2=-2/0,
 2-3=-1668/0, 3-4=-2773/0, 4-5=-2773/0,
 5-6=-3292/0, 6-7=-3311/0, 7-9=-2761/0,
 9-10=-2761/0, 10-11=-1671/0, 11-12=0/0
 BOT CHORD 21-22=0/985, 19-21=0/2321, 18-19=0/3171,
 17-18=0/3311, 16-17=0/3311, 15-16=0/3311,
 14-15=0/2317, 13-14=0/987
 WEBS 6-17=-218/73, 7-16=-39/220, 2-22=-1234/0,
 2-21=0/889, 3-21=-849/0, 3-19=0/578,
 4-19=-31/0, 5-19=-508/0, 5-18=0/301,
 6-18=-335/213, 11-13=-1239/0, 11-14=0/890,
 10-14=-841/0, 10-15=0/566, 9-15=-101/88,
 7-15=-845/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) 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.
- 3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



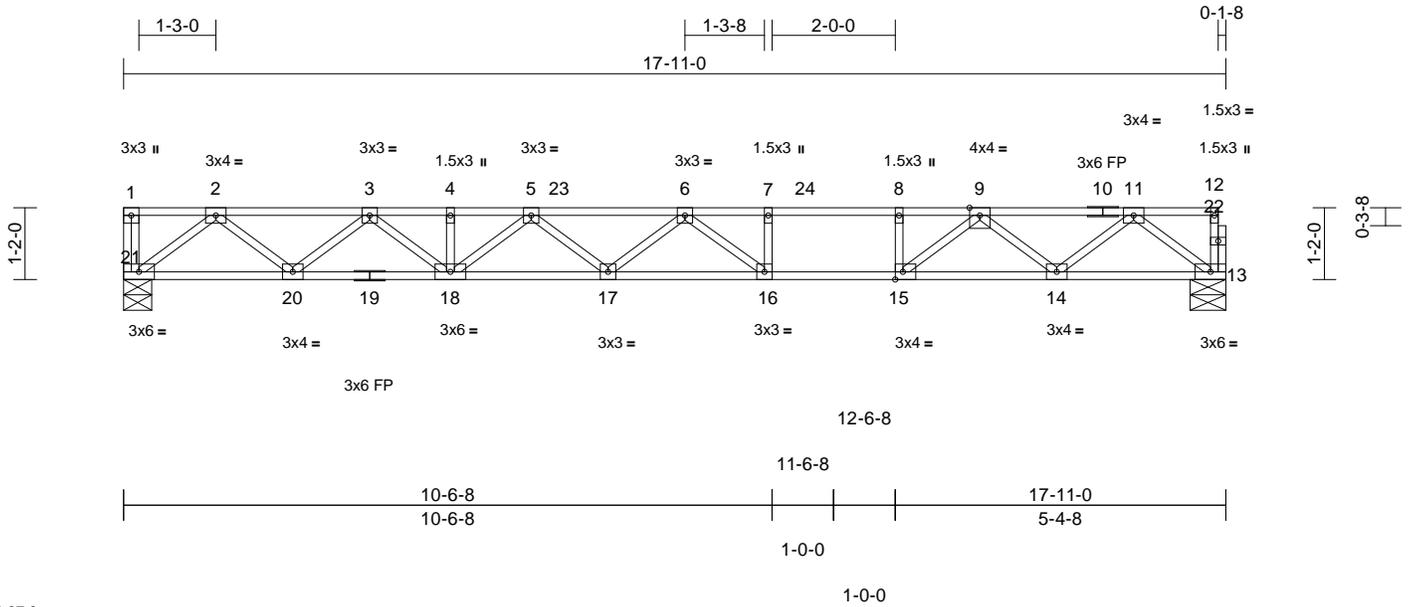
818 Soundside Road
 Edenton, NC 27932

Job 2503-4262-A	Truss 2F26	Truss Type Floor	Qty 2	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869777
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:33
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Page: 1



Scale = 1:37.3

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.26	16-17	>800	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.40	16-17	>532	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.05	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 90 lb	FT = 20%F, 12%E

LUMBER
TOP CHORD 2x4 SP SS(flat) *Except* 10-12:2x4 SP No.2 (flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 19-13:2x4 SP SS (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) 13=0-7-0, 21=0-5-8
Max Grav 13=671 (LC 1), 21=674 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-21=-27/0, 12-13=-23/1, 1-2=0/0, 2-3=-1432/0, 3-4=-2395/0, 4-5=-2395/0, 5-6=-2890/0, 6-7=-2641/0, 7-8=-2641/0, 8-9=-2641/0, 9-11=-1401/0, 11-12=-1/0
BOT CHORD 20-21=0/844, 18-20=0/1993, 17-18=0/2737, 16-17=0/2953, 15-16=0/2641, 14-15=0/2005, 13-14=0/838
WEBS 7-16=-42/168, 8-15=-387/0, 2-21=-1059/0, 2-20=0/766, 3-20=-729/0, 3-18=0/513, 4-18=-49/0, 5-18=-437/0, 5-17=0/205, 6-17=-154/0, 6-16=-511/39, 11-13=-1050/0, 11-14=0/732, 9-14=-786/0, 9-15=0/901

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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.

4) 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: 13-21=-7, 1-23=-67, 23-24=-80, 12-24=-67



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



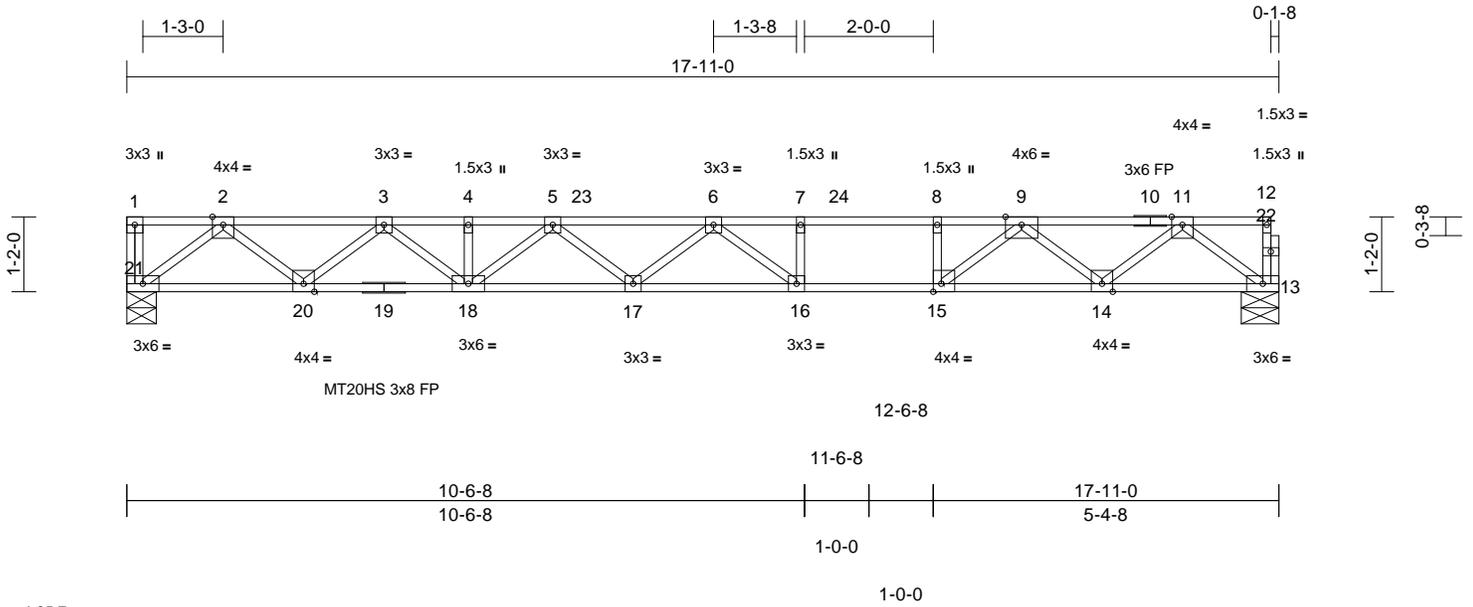
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F26A	Truss Type Floor	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869778
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Structural, LLC, Thurmont, MD - 21788,

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Page: 1



Scale = 1:35.7

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

Loading	(psf)	Spacing	1-8-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.33	16-17	>641	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.87	Vert(CT)	-0.49	16-17	>431	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 90 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 19-13:2x4 SP SS (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) 13=0-7-0, 21=0-5-8
Max Grav 13=834 (LC 1), 21=838 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-21=-33/0, 12-13=-26/3, 1-2=0/0, 2-3=-1780/0, 3-4=-2973/0, 4-5=-2973/0, 5-6=-3583/0, 6-7=-3276/0, 7-8=-3276/0, 8-9=-3276/0, 9-11=-1742/0, 11-12=-2/0

BOT CHORD 20-21=0/1050, 18-20=0/2476, 17-18=0/3395, 16-17=0/3660, 15-16=0/3276, 14-15=0/2489, 13-14=0/1046

WEBS 7-16=-55/208, 8-15=-480/0, 2-21=-1317/0, 2-20=0/951, 3-20=-906/0, 3-18=0/635, 4-18=-62/0, 5-18=-539/0, 5-17=0/251, 6-17=-190/0, 6-16=-630/58, 11-13=-1311/0, 11-14=0/906, 9-14=-972/0, 9-15=0/1114

5) 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: 13-21=-8, 1-23=-83, 23-24=-98, 12-24=-83

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 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.



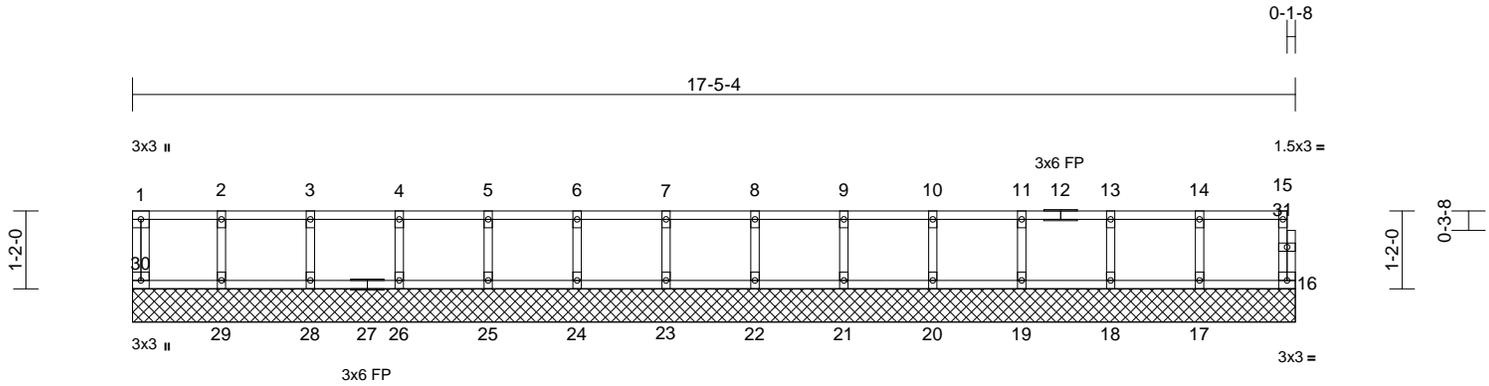
April 21, 2025

Job 2503-4262-A	Truss 2FGE4	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869779
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:35
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Page: 1



Scale = 1:34.4

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horiz(TL)	0.00	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 73 lb	FT = 20%F, 12%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) *Except* 16-31:2x4 SP No.2(flat)

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

REACTIONS (size)	
16=17-5-4, 17=17-5-4, 18=17-5-4, 19=17-5-4, 20=17-5-4, 21=17-5-4, 22=17-5-4, 23=17-5-4, 24=17-5-4, 25=17-5-4, 26=17-5-4, 28=17-5-4, 29=17-5-4, 30=17-5-4	
Max Grav	16=41 (LC 1), 17=100 (LC 1), 18=97 (LC 1), 19=98 (LC 1), 20=98 (LC 1), 21=99 (LC 1), 22=101 (LC 1), 23=101 (LC 1), 24=99 (LC 1), 25=98 (LC 1), 26=98 (LC 1), 28=99 (LC 1), 29=94 (LC 1), 30=42 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-30=-38/0, 15-16=-38/0, 1-2=-8/0, 2-3=-8/0, 3-4=-8/0, 4-5=-8/0, 5-6=-8/0, 6-7=-8/0, 7-8=-8/0, 8-9=-8/0, 9-10=-8/0, 10-11=-8/0, 11-13=-8/0, 13-14=-8/0, 14-15=-8/0
BOT CHORD	29-30=0/8, 28-29=0/8, 26-28=0/8, 25-26=0/8, 24-25=0/8, 23-24=0/8, 22-23=0/8, 21-22=0/8, 20-21=0/8, 19-20=0/8, 18-19=0/8, 17-18=0/8, 16-17=0/8
WEBS	2-29=-86/0, 3-28=-90/0, 4-26=-89/0, 5-25=-89/0, 6-24=-90/0, 7-23=-92/0, 8-22=-92/0, 9-21=-90/0, 10-20=-89/0, 11-19=-89/0, 13-18=-89/0, 14-17=-91/0

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Load case(s) 1 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)
Vert: 16-30=-7, 1-6=-67, 6-9=-69, 9-15=-67



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



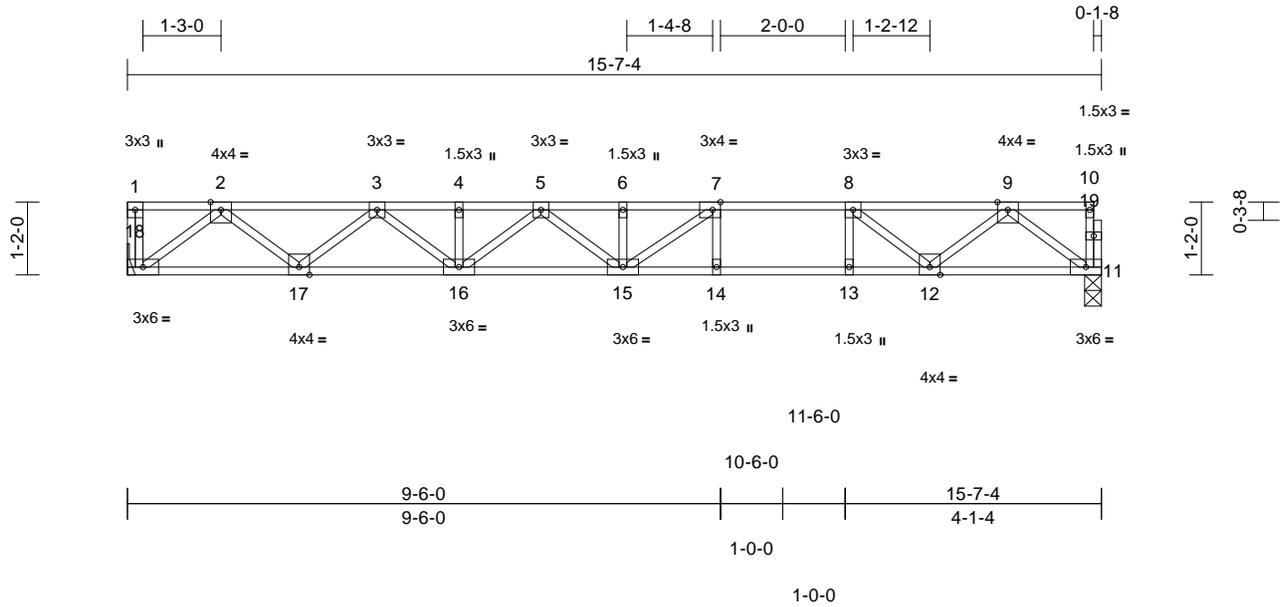
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F16	Truss Type Floor	Qty 2	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869780
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:29
ID:Vg1su3wf9kK2JRaELxd8ny8MUL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:36.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.28	14-15	>654	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.38	14-15	>480	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.04	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 80 lb	FT = 20%F, 12%E

LUMBER

- TOP CHORD 2x4 SP SS(flat)
- BOT CHORD 2x4 SP SS(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, 18= Mechanical
Max Grav 11=838 (LC 1), 18=844 (LC 1)

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

- TOP CHORD 1-18=-39/0, 10-11=-67/0, 1-2=0/0, 2-3=-1730/0, 3-4=-2776/0, 4-5=-2776/0, 5-6=-3178/0, 6-7=-3178/0, 7-8=-2686/0, 8-9=-1743/0, 9-10=-4/0
- BOT CHORD 17-18=0/1048, 16-17=0/2372, 15-16=0/3036, 14-15=0/2686, 13-14=0/2686, 12-13=0/2686, 11-12=0/992
- WEBS 7-14=-316/0, 8-13=0/373, 2-18=-1315/0, 2-17=0/887, 3-17=-837/0, 3-16=0/516, 4-16=-109/0, 5-16=-332/0, 5-15=0/197, 9-11=-1240/0, 9-12=0/978, 8-12=-1211/0, 6-15=-317/0, 7-15=-55/744

NOTES

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- 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



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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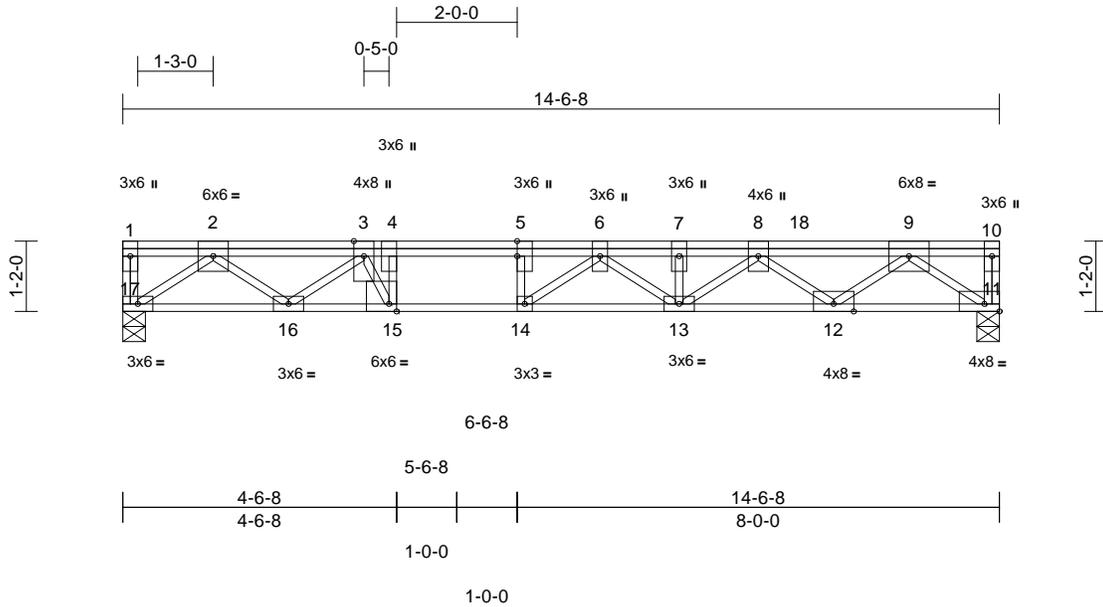
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1F14L	Truss Type Floor Girder	Qty 2	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869781
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:20
ID:pRaQhm99XH?vKKF9i7iIXbzQSC4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?

Page: 1



Scale = 1:38

Plate Offsets (X, Y): [5:0-3-0,Edge], [11:Edge,0-1-8], [15:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.10	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.29	13-14	>590	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 12%E

LUMBER

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

Vert: 11-17=-8, 1-10=-80
Concentrated Loads (lb)
Vert: 18=-1201

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=0-4-8, 17=0-4-8
Max Grav 11=1562 (LC 1), 17=897 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-43/0, 10-11=0/89, 1-2=0/0, 2-3=-2033/0, 3-4=-3606/0, 4-5=-3606/0, 5-6=-3606/0, 6-7=-4535/0, 7-8=-4535/0, 8-9=-3587/0, 9-10=0/0
BOT CHORD 16-17=0/1179, 15-16=0/2920, 14-15=0/3606, 13-14=0/4399, 12-13=0/4902, 11-12=0/2258
WEBS 4-15=-1455/0, 5-14=0/604, 2-17=-1447/0, 2-16=0/1085, 3-16=-1126/0, 3-15=0/1750, 9-11=-2772/0, 9-12=0/1688, 8-12=-1671/0, 8-13=-557/0, 7-13=0/274, 6-13=0/228, 6-14=-1122/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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

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



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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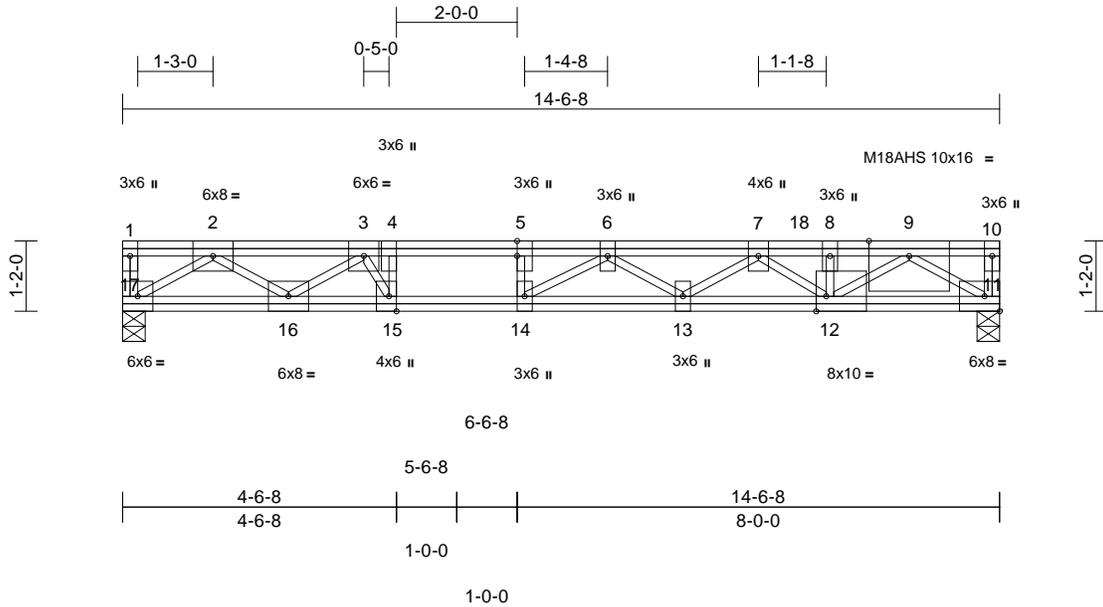
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1FGR1	Truss Type Floor Girder	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869782
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:23
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Page: 1



Scale = 1:38

Plate Offsets (X, Y): [5:0-3-0,Edge], [12:0-2-0,Edge], [15:0-3-0,Edge]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.06	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.28	13-14	>607	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.04	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 114 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP SS(flat)
 BOT CHORD 2x4 SP SS(flat)
 WEBS 2x4 SP No.3(flat) *Except* 12-9:2x4 SP No.2 (flat)

BRACING

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

REACTIONS

(size) 11=0-4-8, 17=0-4-8
 Max Grav 11=2034 (LC 1), 17=1410 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-17=-34/0, 10-11=-70/0, 1-2=0/0,
 2-3=-3641/0, 3-4=-5903/0, 4-5=-5903/0,
 5-6=-5903/0, 6-7=-6680/0, 7-8=-5674/0,
 8-9=-5674/0, 9-10=0/0
 BOT CHORD 16-17=0/2021, 15-16=0/5392, 14-15=0/5903,
 13-14=0/6486, 12-13=0/6735, 11-12=0/2891
 WEBS 4-15=-848/0, 5-14=0/237, 2-17=-2429/0,
 2-16=0/2009, 3-16=-2171/0, 3-15=0/1246,
 9-11=-3475/0, 7-13=-137/0, 6-13=0/308,
 6-14=-798/0, 8-12=-1162/0, 7-12=-1340/0,
 9-12=0/3394

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00,
 Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 11-17=-7, 1-10=-67
 Concentrated Loads (lb)
 Vert: 3=-696, 18=-1700



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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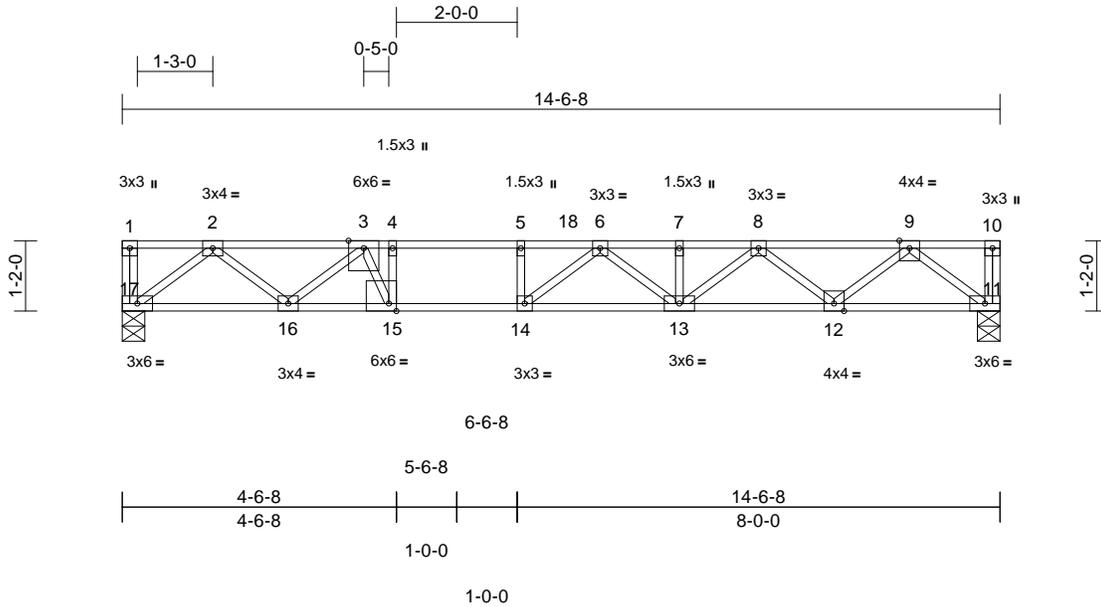
818 Soundside Road
 Edenton, NC 27932

Job 2503-4262-A	Truss 1F9	Truss Type Floor	Qty 2	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869783
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:18
ID:5NH6gshRC7IjyEgOUSRSGzewO7-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:38

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

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.15	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.34	13-14	>500	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.04	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%F, 12%E

LUMBER

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

Vert: 11-17=-8, 1-10=-80
Concentrated Loads (lb)
Vert: 11=-58, 8=-47, 18=-280

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=0-4-8, 17=0-4-8
Max Grav 11=864 (LC 1), 17=779 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-17=-30/0, 10-11=-32/0, 1-2=0/0,
2-3=-1613/0, 3-4=-2807/0, 4-5=-2807/0,
5-6=-2807/0, 6-7=-2823/0, 7-8=-2823/0,
8-9=-1703/0, 9-10=0/0
BOT CHORD 16-17=0/964, 15-16=0/2362, 14-15=0/2807,
13-14=0/3151, 12-13=0/2397, 11-12=0/1004
WEBS 4-15=-886/0, 5-14=-13/166, 2-17=-1210/0,
2-16=0/845, 3-16=-974/0, 3-15=0/1253,
9-11=-1259/0, 9-12=0/910, 8-12=-903/0,
8-13=0/544, 7-13=0/48, 6-13=-432/0,
6-14=-558/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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

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



April 21, 2025

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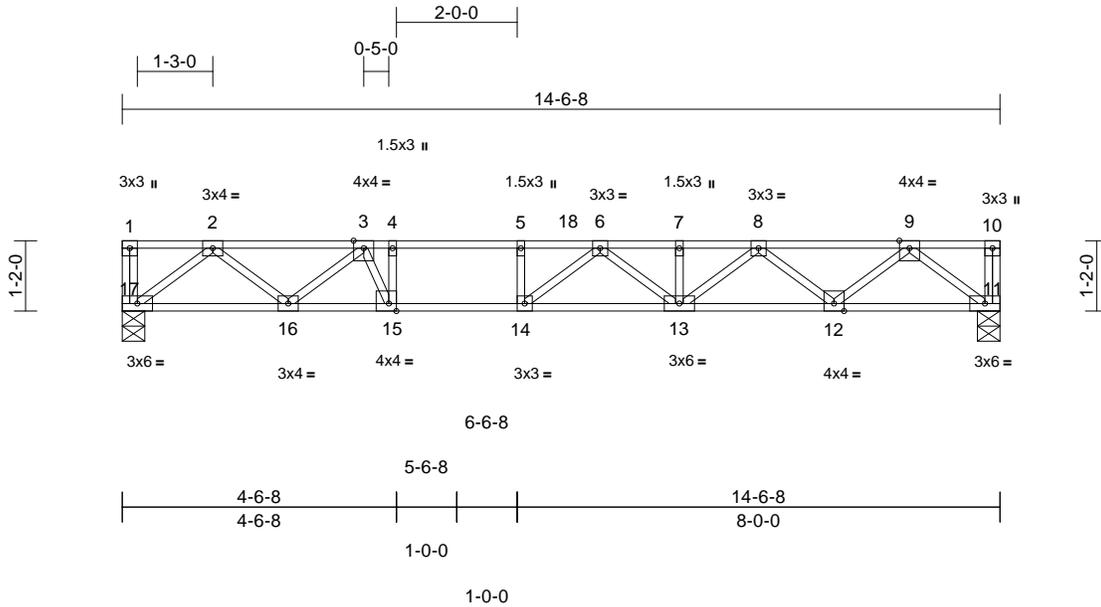
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1F10	Truss Type Floor	Qty 3	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869784
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:19
ID:wLDF39Zr0jD2i5dEyzpGhzewNE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?

Page: 1



Scale = 1:38

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

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.16	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.29	13-14	>602	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%F, 12%E

LUMBER

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

Vert: 11-17=-8, 1-10=-80
Concentrated Loads (lb)
Vert: 11=-58, 8=-223, 18=-28

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=0-4-8, 17=0-4-8
Max Grav 11=864 (LC 1), 17=703 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-30/0, 10-11=-32/0, 1-2=0/0, 2-3=-1429/0, 3-4=-2400/0, 4-5=-2400/0, 5-6=-2400/0, 6-7=-2603/0, 7-8=-2603/0, 8-9=-1703/0, 9-10=0/0
BOT CHORD 16-17=0/866, 15-16=0/2060, 14-15=0/2400, 13-14=0/2678, 12-13=0/2391, 11-12=0/1005
WEBS 4-15=-710/0, 5-14=-16/159, 2-17=-1087/0, 2-16=0/733, 3-16=-821/0, 3-15=0/1000, 9-11=-1261/0, 9-12=0/908, 8-12=-895/0, 8-13=0/272, 7-13=-37/0, 6-13=-111/0, 6-14=-474/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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

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



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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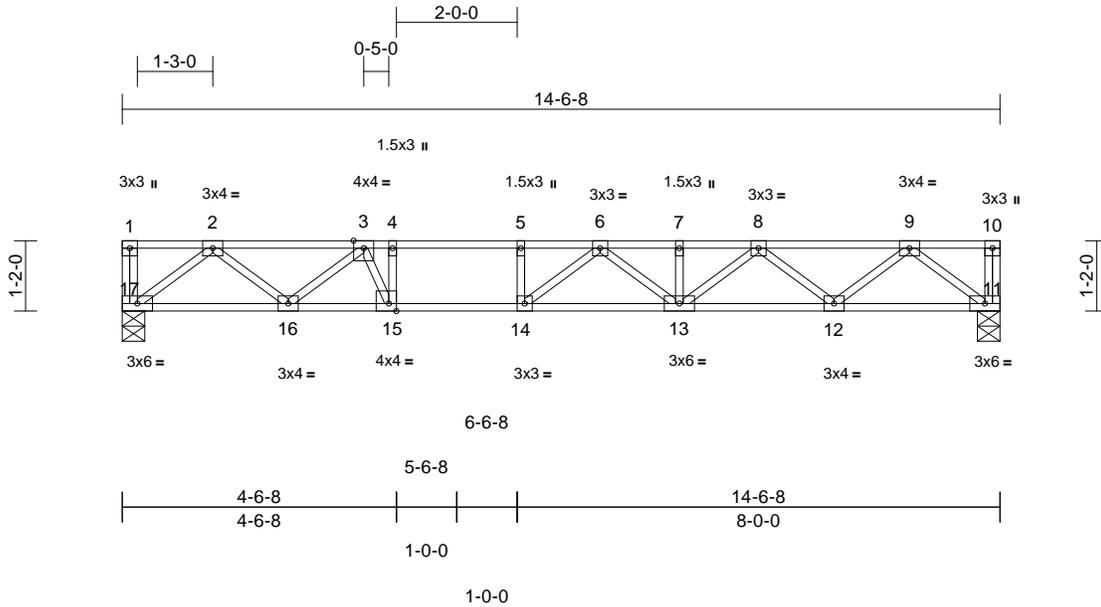
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1F12	Truss Type Floor	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869785
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:19
ID:6XV6eAW?P_G?1rdpM2uKzLzewM?-RfC?PsB70Hq3NSgPqnl8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38

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

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.48	Vert(LL)	-0.16	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.21	13-14	>820	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%F, 12%E

LUMBER

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

Vert: 11-17=-8, 1-10=-80
Concentrated Loads (lb)
Vert: 3=-141

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=0-4-8, 17=0-4-8
Max Grav 11=667 (LC 1), 17=732 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-17=-31/0, 10-11=-31/0, 1-2=0/0,
2-3=-1512/0, 3-4=-2332/0, 4-5=-2332/0,
5-6=-2332/0, 6-7=-2191/0, 7-8=-2191/0,
8-9=-1359/0, 9-10=0/0

BOT CHORD

16-17=0/907, 15-16=0/2138, 14-15=0/2332,
13-14=0/2374, 12-13=0/1874, 11-12=0/825

WEBS

4-15=-470/0, 5-14=-138/37, 2-17=-1138/0,
2-16=0/787, 3-16=-815/0, 3-15=0/650,
9-11=-1035/0, 9-12=0/695, 8-12=-671/0,
8-13=0/405, 7-13=-59/0, 6-13=-250/0,
6-14=-173/275

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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

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



April 21, 2025

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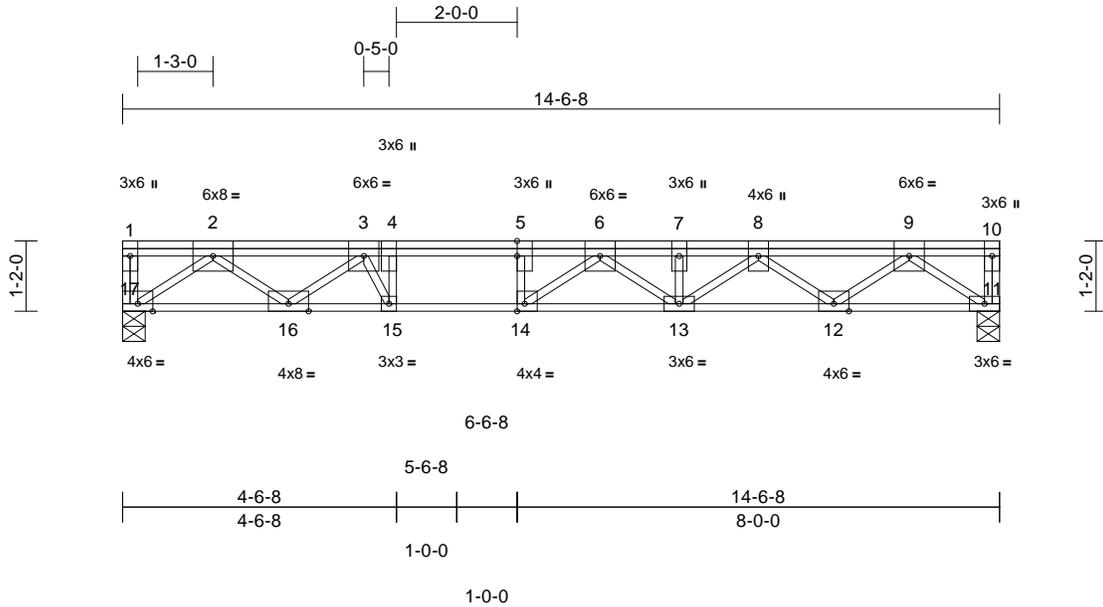
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1F13	Truss Type Floor	Qty 2	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869786
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:20
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Page: 1



Scale = 1:38

Plate Offsets (X, Y): [5:0-3-0,Edge], [14:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.11	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.23	14-15	>739	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.06	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 12%E

LUMBER

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

Vert: 11-17=-8, 1-10=-80
Concentrated Loads (lb)
Vert: 3=-1097

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=0-4-8, 17=0-4-8
Max Grav 11=926 (LC 1), 17=1429 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-17=-39/0, 10-11=-39/0, 1-2=0/0,
2-3=-3450/0, 3-4=-4772/0, 4-5=-4772/0,
5-6=-4772/0, 6-7=-3680/0, 7-8=-3680/0,
8-9=-2124/0, 9-10=0/0
BOT CHORD 16-17=0/1938, 15-16=0/4910, 14-15=0/4772,
13-14=0/4181, 12-13=0/2983, 11-12=0/1233
WEBS 2-17=-2379/0, 2-16=0/1921, 3-16=-1855/0,
3-15=-791/0, 9-11=-1513/0, 9-12=0/1132,
8-12=-1090/0, 8-13=0/870, 7-13=-140/0,
6-13=-625/0, 6-14=0/1092, 4-15=0/638,
5-14=-566/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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

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



April 21, 2025

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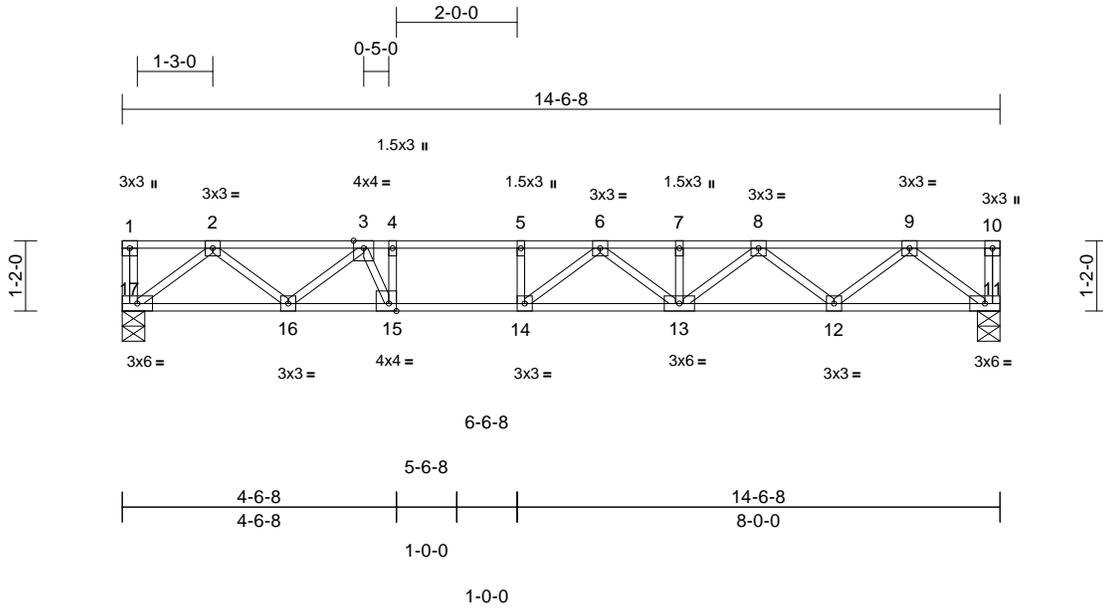
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1F11	Truss Type Floor	Qty 4	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869787
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:19
ID:OLMv_xB3mhsqHi3dHtv?NfzewMQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:38

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

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.16	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.21	13-14	>803	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

REACTIONS (size) 11=0-4-8, 17=0-4-8
 Max Grav 11=629 (LC 1), 17=629 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-17=-31/0, 10-11=-31/0, 1-2=0/0,
 2-3=-1250/0, 3-4=-2010/0, 4-5=-2010/0,
 5-6=-2010/0, 6-7=-2003/0, 7-8=-2003/0,
 8-9=-1262/0, 9-10=0/0
 BOT CHORD 16-17=0/771, 15-16=0/1767, 14-15=0/2010,
 13-14=0/2137, 12-13=0/1734, 11-12=0/774
 WEBS 4-15=-550/0, 5-14=-93/82, 2-17=-967/0,
 2-16=0/624, 3-16=-673/0, 3-15=0/767,
 9-11=-971/0, 9-12=0/635, 8-12=-614/0,
 8-13=0/344, 7-13=-52/0, 6-13=-186/0,
 6-14=-280/168

NOTES

- Unbalanced floor live loads have been considered for this design.
- 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 21, 2025

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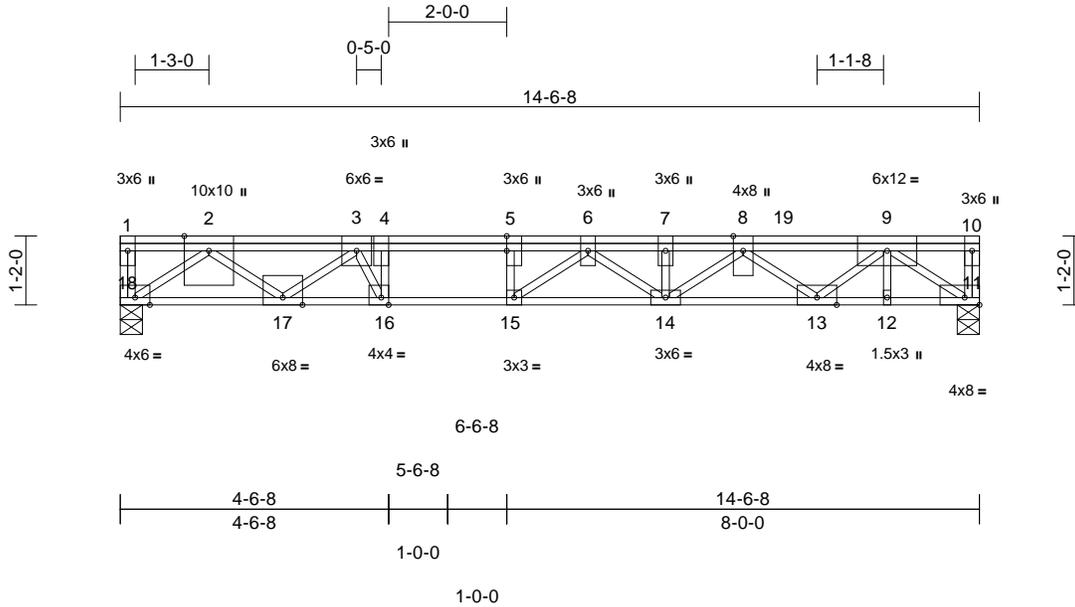
818 Soundside Road
 Edenton, NC 27932

Job 2503-4262-A	Truss 1F14	Truss Type Floor	Qty 6	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869788
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:20
ID:1XsRYElmOL1ywYKj?VTyTezewFq-RfC?PsB70Hq3NSgPqnL8w3ulTXhGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.8
Plate Offsets (X, Y): [5:0-3-0,Edge], [11:Edge,0-1-8], [16:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.10	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.30	14-15	>565	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.08	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 95 lb	FT = 20%F, 12%E

LUMBER
TOP CHORD 2x4 SP SS(flat)
BOT CHORD 2x4 SP SS(flat)
WEBS 2x4 SP No.3(flat) *Except* 17-2:2x4 SP No.2 (flat)

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

REACTIONS (size) 11=0-4-8, 18=0-4-8
Max Grav 11=1597 (LC 1), 18=1598 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-43/0, 10-11=0/52, 1-2=0/0, 2-3=-3886/0, 3-4=-5766/0, 4-5=-5766/0, 5-6=-5766/0, 6-7=-5399/0, 7-8=-5399/0, 8-9=-3742/0, 9-10=0/0
BOT CHORD 17-18=0/2167, 16-17=0/5585, 15-16=0/5766, 14-15=0/5661, 13-14=0/5179, 12-13=0/2353, 11-12=0/2353
WEBS 2-18=-2660/0, 2-17=0/2184, 3-17=-2158/0, 3-16=-62/600, 9-11=-2847/0, 8-14=0/274, 7-14=0/106, 6-14=-328/0, 6-15=-2/482, 8-13=-1825/0, 9-12=-2/0, 9-13=0/1801, 4-16=-510/43, 5-15=-251/4

1) Dead + Floor Live (balanced): Lumber Increase=1.00,
Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 11-18=-8, 1-10=-80
Concentrated Loads (lb)
Vert: 3=-1062, 19=-875

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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



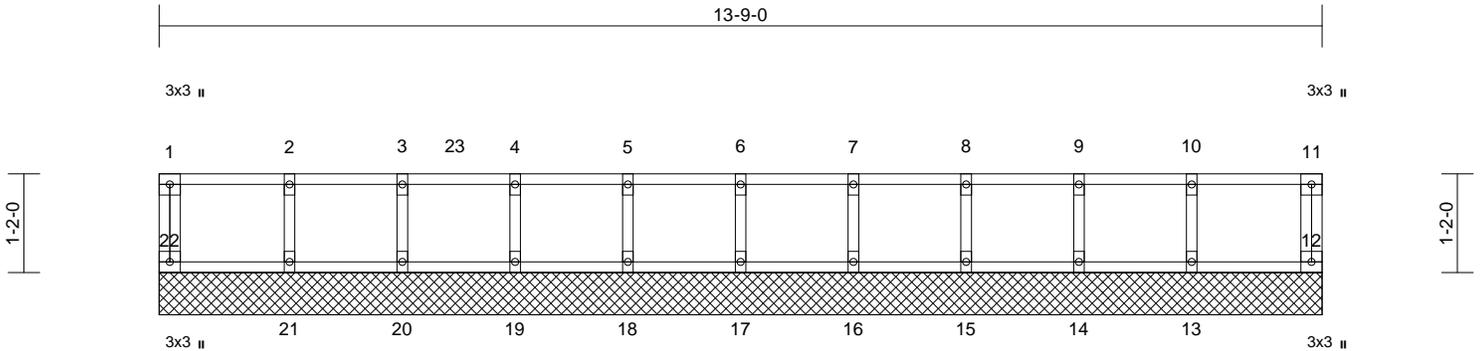
April 21, 2025

Job 2503-4262-A	Truss 1FGE7	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869789
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:22
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Page: 1



Scale = 1:27.1

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	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	NO	WB	0.16	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 59 lb	FT = 20%F, 12%E

LUMBER
TOP CHORD 2x4 SP SS(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) 12=13-9-0, 13=13-9-0, 14=13-9-0, 15=13-9-0, 16=13-9-0, 17=13-9-0, 18=13-9-0, 19=13-9-0, 20=13-9-0, 21=13-9-0, 22=13-9-0
Max Grav 12=63 (LC 1), 13=123 (LC 1), 14=730 (LC 1), 15=124 (LC 1), 16=109 (LC 1), 17=141 (LC 1), 18=28 (LC 1), 19=538 (LC 1), 20=594 (LC 1), 21=32 (LC 1), 22=78 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-73/0, 11-12=-56/0, 1-2=-16/0, 2-3=-16/0, 3-4=-16/0, 4-5=-16/0, 5-6=-16/0, 6-7=-16/0, 7-8=-16/0, 8-9=-16/0, 9-10=-16/0, 10-11=-16/0
BOT CHORD 21-22=0/16, 20-21=0/16, 19-20=0/16, 18-19=0/16, 17-18=0/16, 16-17=0/16, 15-16=0/16, 14-15=0/16, 13-14=0/16, 12-13=0/16
WEBS 6-17=-130/0, 5-18=-17/0, 4-19=-527/0, 3-20=-584/0, 2-21=-19/0, 7-16=-99/0, 8-15=-113/0, 9-14=-718/0, 10-13=-115/0

NOTES
1) All plates are 1.5x3 (||) 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 1-4-0 oc.

- Load case(s) 1 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: 12-22=-8, 1-11=-80
Concentrated Loads (lb)
Vert: 9=-620, 23=-753



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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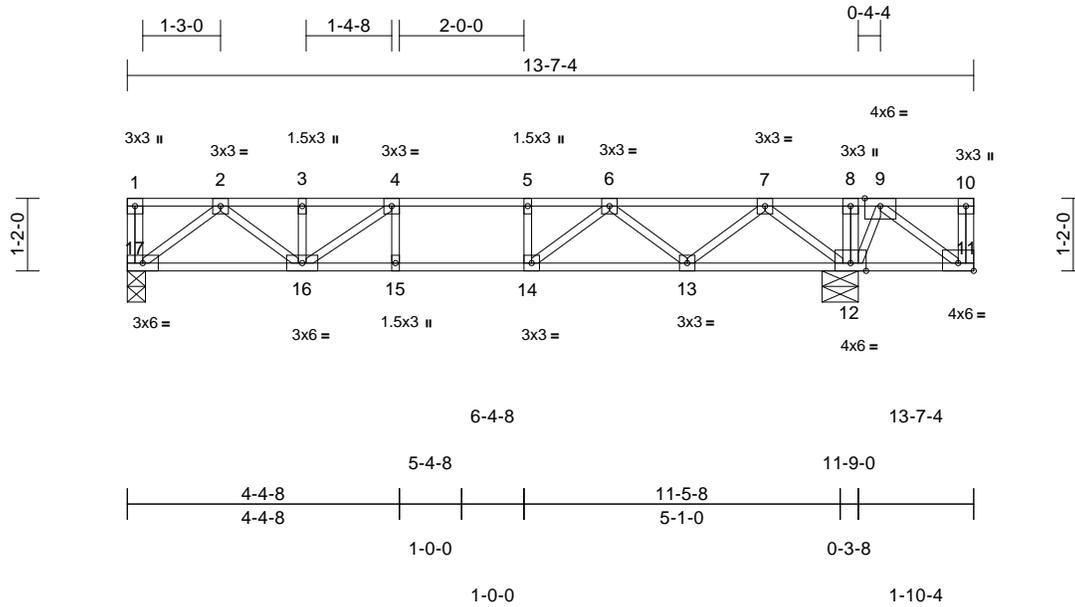
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F22	Truss Type Floor	Qty 2	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869790
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:31
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Page: 1



Scale = 1:36.8

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	0.09	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	0.11	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 73 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

REACTIONS

(size) 12=0-7-0, 17=0-3-8
Max Uplift 17=-26 (LC 4)
Max Grav 12=1495 (LC 1), 17=371 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-41/0, 10-11=-830/0, 1-2=0/0,
2-3=-714/101, 3-4=-714/101, 4-5=-876/404,
5-6=-876/404, 6-7=-364/997, 7-8=0/1531,
8-9=0/1531, 9-10=0/0
BOT CHORD 16-17=-53/430, 15-16=-404/876,
14-15=-404/876, 13-14=-738/690,
12-13=-1231/25, 11-12=-1093/0
WEBS 4-15=-136/31, 5-14=-268/0, 8-12=-43/0,
2-17=-539/66, 2-16=-62/362, 7-12=-845/0,
7-13=0/566, 6-13=-590/0, 6-14=0/639,
9-11=0/1371, 9-12=-1014/0, 3-16=-184/17,
4-16=-272/369

NOTES

- Unbalanced floor live loads have been considered for this design.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
- Load case(s) 1 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down at 13-5-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 11-17=-7, 1-10=-67
Concentrated Loads (lb)
Vert: 10=-796 (F=-700)



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



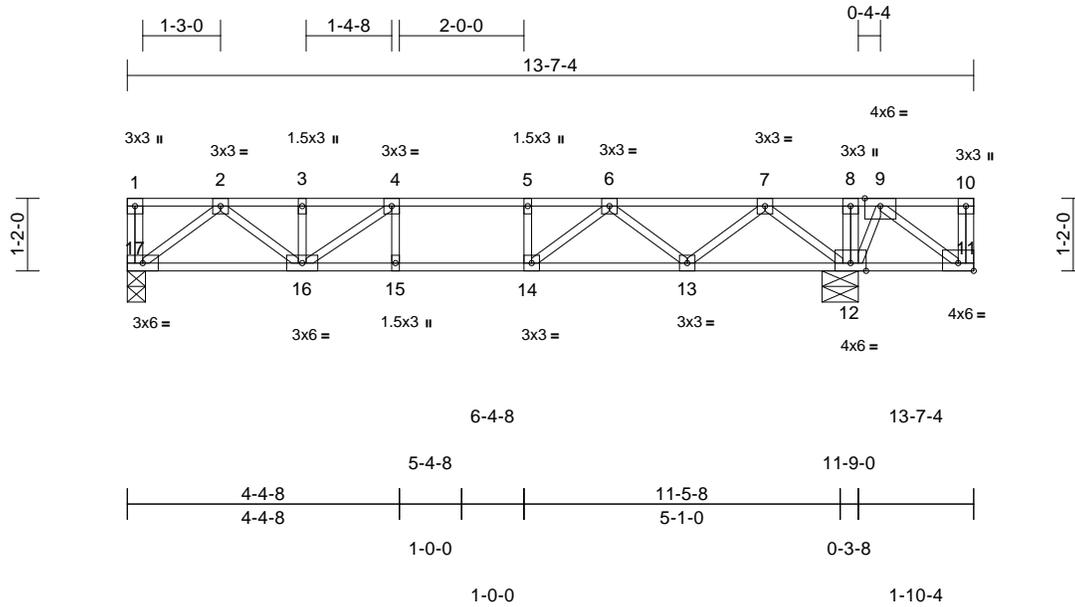
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F21	Truss Type Floor Girder	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869792
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:30
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Page: 1



Scale = 1:36.8

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

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	0.09	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	0.11	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 73 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

REACTIONS

(size) 12=0-7-0, 17=0-3-8
Max Uplift 17=24 (LC 4)
Max Grav 12=1476 (LC 1), 17=374 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-41/0, 10-11=-814/0, 1-2=0/0,
2-3=-720/95, 3-4=-720/95, 4-5=-890/390,
5-6=-890/390, 6-7=-388/973, 7-8=0/1501,
8-9=0/1501, 9-10=0/0
BOT CHORD 16-17=-49/433, 15-16=-390/890,
14-15=-390/890, 13-14=-718/710,
12-13=-1204/51, 11-12=-1071/0
WEBS 4-15=-133/34, 5-14=-265/0, 8-12=-43/0,
2-17=-544/62, 2-16=-58/366, 7-12=-840/0,
7-13=0/562, 6-13=-585/0, 6-14=0/632,
9-11=0/1344, 9-12=-996/0, 3-16=-183/19,
4-16=-281/360

NOTES

- Unbalanced floor live loads have been considered for this design.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
- Load case(s) 1 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down at 13-5-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 11-17=-7, 1-10=-67
Concentrated Loads (lb)
Vert: 10=-779 (F=-700)



April 21, 2025

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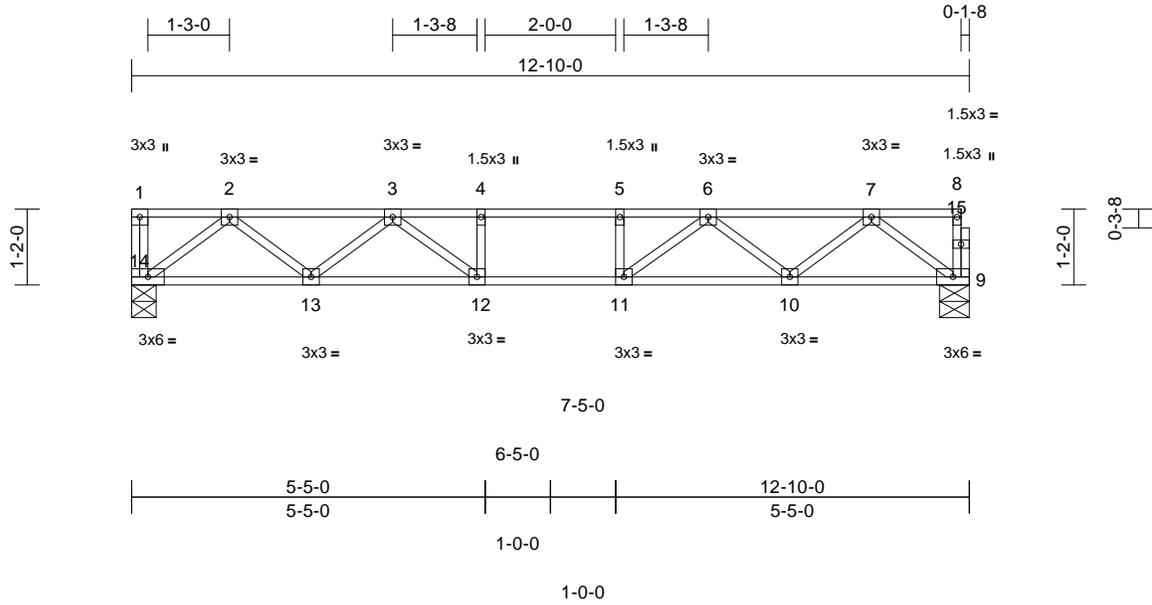
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1F15	Truss Type Floor	Qty 10	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869793
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:20
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Page: 1



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	0.56	Vert(LL)	-0.11	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 64 lb	FT = 20%F, 12%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) 9=0-5-8, 14=0-4-8
 Max Grav 9=686 (LC 1), 14=750 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-14=-40/0, 8-9=-36/0, 1-2=0/0, 2-3=-1345/0, 3-4=-2050/0, 4-5=-2050/0, 5-6=-2050/0, 6-7=-1345/0, 7-8=-2/0
 BOT CHORD 13-14=0/848, 12-13=0/1807, 11-12=0/2050, 10-11=0/1807, 9-10=0/848
 WEBS 4-12=-235/0, 5-11=-235/0, 2-14=-1064/0, 2-13=0/647, 3-13=-601/0, 3-12=0/509, 7-9=-1061/0, 7-10=0/648, 6-10=-602/0, 6-11=0/509

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - Load case(s) 1 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
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 9-14=-10, 1-8=-100

Concentrated Loads (lb)
 Vert: 14=-58



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

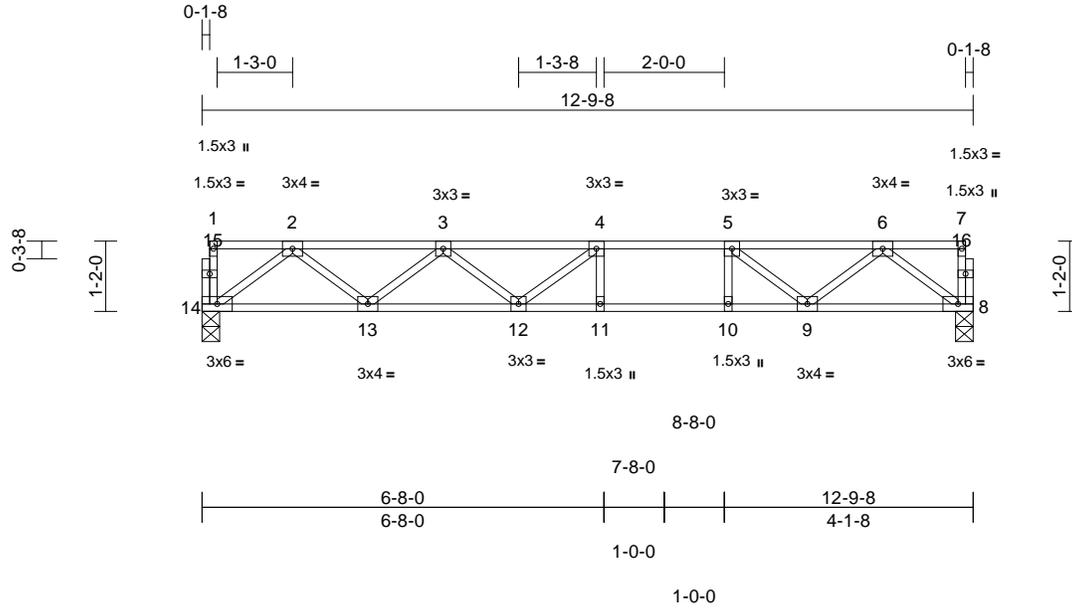
818 Soundside Road
 Edenton, NC 27932

Job 2503-4262-A	Truss 2F18	Truss Type Floor	Qty 3	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869794
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:30
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.14	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.19	11-12	>790	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 64 lb	FT = 20%F, 12%E

LUMBER

- TOP CHORD 2x4 SP SS(flat)
- BOT CHORD 2x4 SP SS(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=0-3-8, 14=0-3-8

Max Grav 8=684 (LC 1), 14=684 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

- TOP CHORD 1-14=-44/0, 7-8=-49/0, 1-2=-3/0, 2-3=-1347/0, 3-4=-1964/0, 4-5=-1968/0, 5-6=-1344/0, 6-7=-3/0
- BOT CHORD 13-14=0/831, 12-13=0/1840, 11-12=0/1968, 10-11=0/1968, 9-10=0/1968, 8-9=0/818
- WEBS 4-11=-211/28, 5-10=0/243, 2-14=-1039/0, 2-13=0/672, 3-13=-642/0, 3-12=0/259, 4-12=-252/151, 6-8=-1022/0, 6-9=0/685, 5-9=-800/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- 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 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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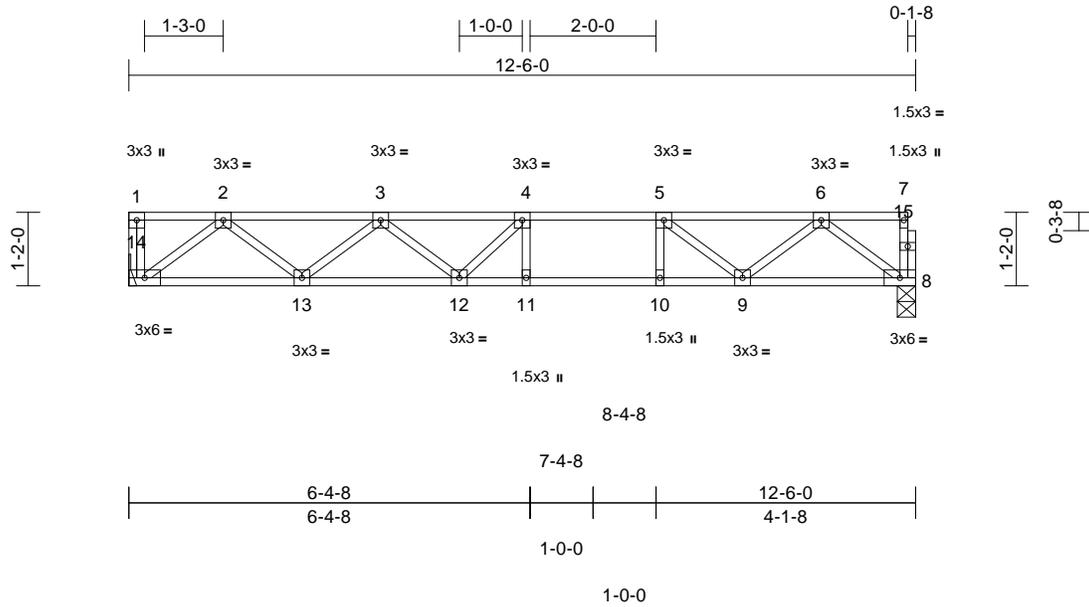
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F17	Truss Type Floor	Qty 2	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869795
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:29
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Page: 1



Scale = 1:36.4

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)	-0.14	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.18	11-12	>809	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 63 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP SS(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=0-3-8, 14= Mechanical
 Max Grav 8=668 (LC 1), 14=674 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-14=-44/0, 7-8=-44/0, 1-2=0/0, 2-3=-1304/0, 3-4=-1893/0, 4-5=-1885/0, 5-6=-1300/0, 6-7=-3/0
 BOT CHORD 13-14=0/815, 12-13=0/1768, 11-12=0/1885, 10-11=0/1885, 9-10=0/1885, 8-9=0/803
 WEBS 4-11=-243/41, 5-10=-8/241, 2-14=-1022/0, 2-13=0/637, 3-13=-604/0, 3-12=0/264, 4-12=-239/169, 6-8=-1004/0, 6-9=0/647, 5-9=-755/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 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.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 21, 2025

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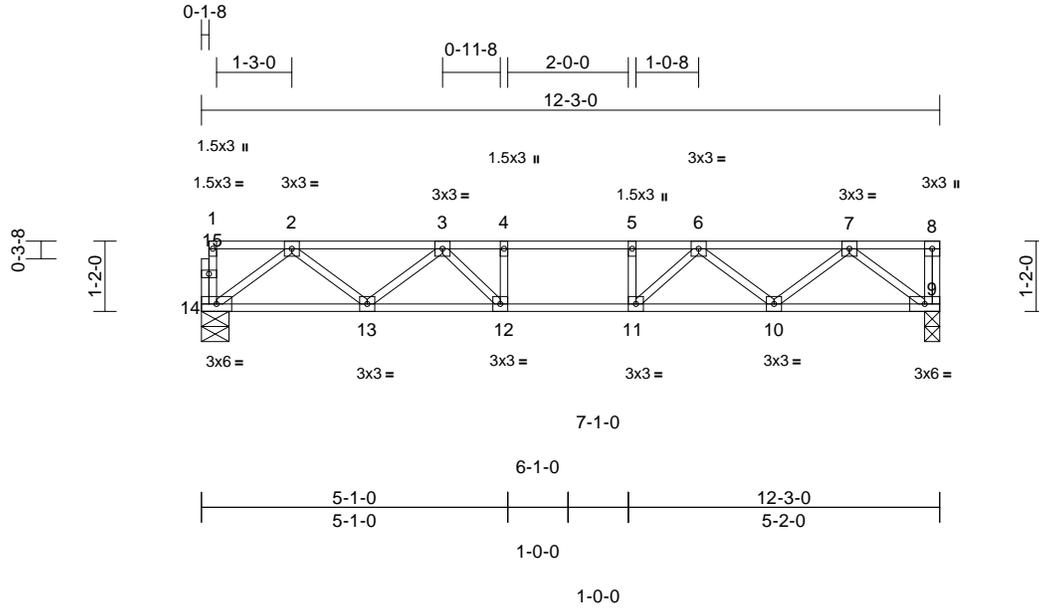
818 Soundside Road
 Edenton, NC 27932

Job 2503-4262-A	Truss 1F16	Truss Type Floor	Qty 10	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869796
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:21
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Page: 1



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	0.54	Vert(LL)	-0.09 10-11 >999 480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.12 10-11 >999 360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.03 9 n/a n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S				Weight: 62 lb	FT = 20%F, 12%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) 9=0-3-0, 14=0-5-8
Max Grav 9=660 (LC 1), 14=654 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-35/0, 8-9=-39/0, 1-2=-2/0, 2-3=-1263/0, 3-4=-1860/0, 4-5=-1860/0, 5-6=-1860/0, 6-7=-1265/0, 7-8=0/0
BOT CHORD 13-14=0/805, 12-13=0/1690, 11-12=0/1860, 10-11=0/1689, 9-10=0/806
WEBS 4-12=-252/0, 5-11=-237/0, 2-14=-1008/0, 2-13=0/596, 3-13=-555/0, 3-12=0/453, 7-9=-1011/0, 7-10=0/597, 6-10=-552/0, 6-11=0/444

- 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.
 - 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



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



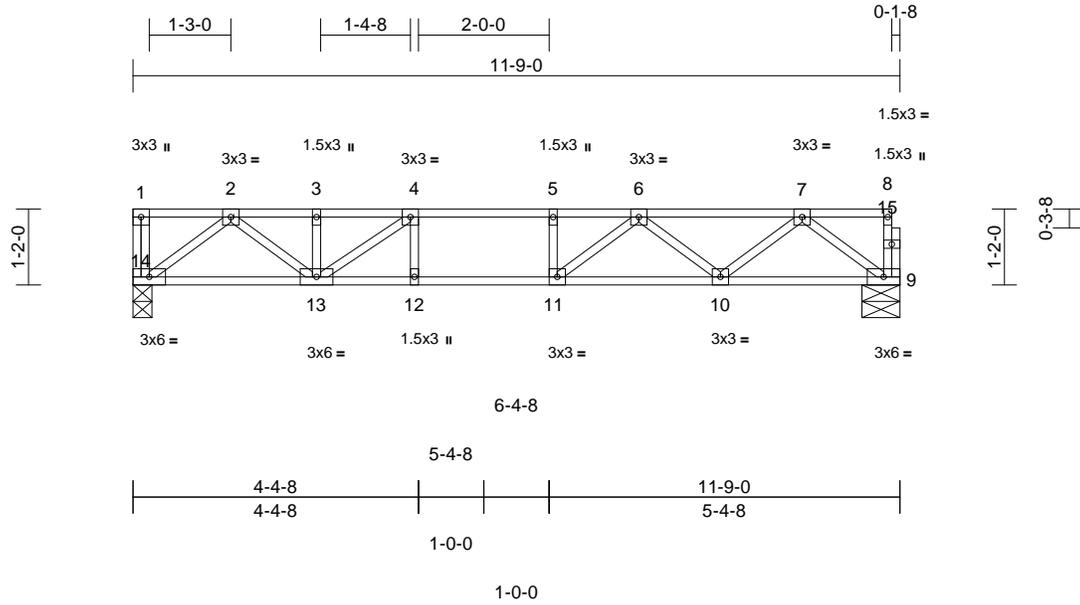
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F27	Truss Type Floor	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869797
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:33
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Page: 1



Scale = 1:35.1

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.07	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.09	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 60 lb	FT = 20%F, 12%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) 9=0-7-0, 14=0-3-8

Max Grav 9=418 (LC 1), 14=422 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

- TOP CHORD 1-14=-38/0, 8-9=-24/0, 1-2=0/0, 2-3=-832/0, 3-4=-832/0, 4-5=-1131/0, 5-6=-1131/0, 6-7=-802/0, 7-8=-1/0
- BOT CHORD 13-14=0/496, 12-13=0/1131, 11-12=0/1131, 10-11=0/1057, 9-10=0/513
- WEBS 4-12=-15/74, 5-11=-116/0, 2-14=-622/0, 2-13=0/429, 7-9=-642/0, 7-10=0/375, 6-10=-332/0, 6-11=-20/242, 3-13=-96/48, 4-13=-438/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- 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



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
Edenton, NC 27932

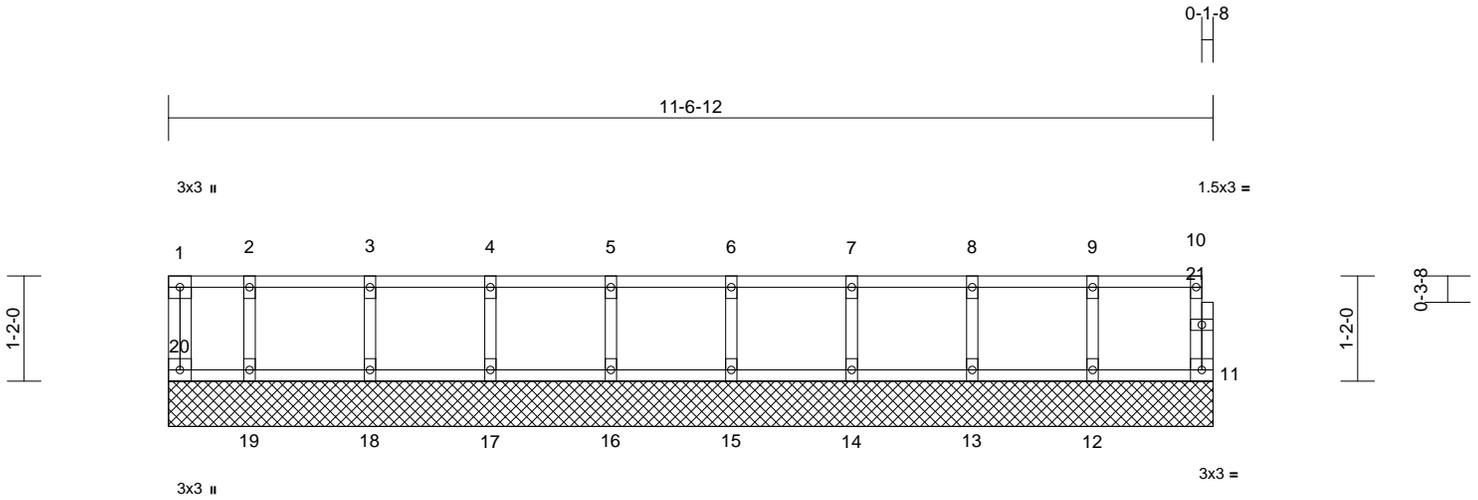
Job 2503-4262-A	Truss 1FGE4	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869799
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:22

Page: 1

ID:Xb1O33c0E2hhOM0wVQ6qvSzewR1-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f



Scale = 1:25.4

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 50 lb	FT = 20%F, 12%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 10-0-0 oc bracing.

LOAD CASE(S) Standard

REACTIONS (size)
11=11-6-12, 12=11-6-12,
13=11-6-12, 14=11-6-12,
15=11-6-12, 16=11-6-12,
17=11-6-12, 18=11-6-12,
19=11-6-12, 20=11-6-12
Max Grav 11=42 (LC 1), 12=118 (LC 1),
13=117 (LC 1), 14=117 (LC 1),
15=117 (LC 1), 16=118 (LC 1),
17=116 (LC 1), 18=122 (LC 1),
19=93 (LC 1), 20=30 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-24/0, 10-11=-39/0, 1-2=-5/0, 2-3=-5/0,
3-4=-5/0, 4-5=-5/0, 5-6=-5/0, 6-7=-5/0,
7-8=-5/0, 8-9=-5/0, 9-10=-5/0
BOT CHORD 19-20=0/5, 18-19=0/5, 17-18=0/5, 16-17=0/5,
15-16=0/5, 14-15=0/5, 13-14=0/5, 12-13=0/5,
11-12=0/5
WEBS 9-12=-106/0, 8-13=-107/0, 7-14=-107/0,
6-15=-107/0, 5-16=-107/0, 4-17=-106/0,
3-18=-110/0, 2-19=-88/0

- NOTES**
- 1) All plates are 1.5x3 (||) 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 1-4-0 oc.



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

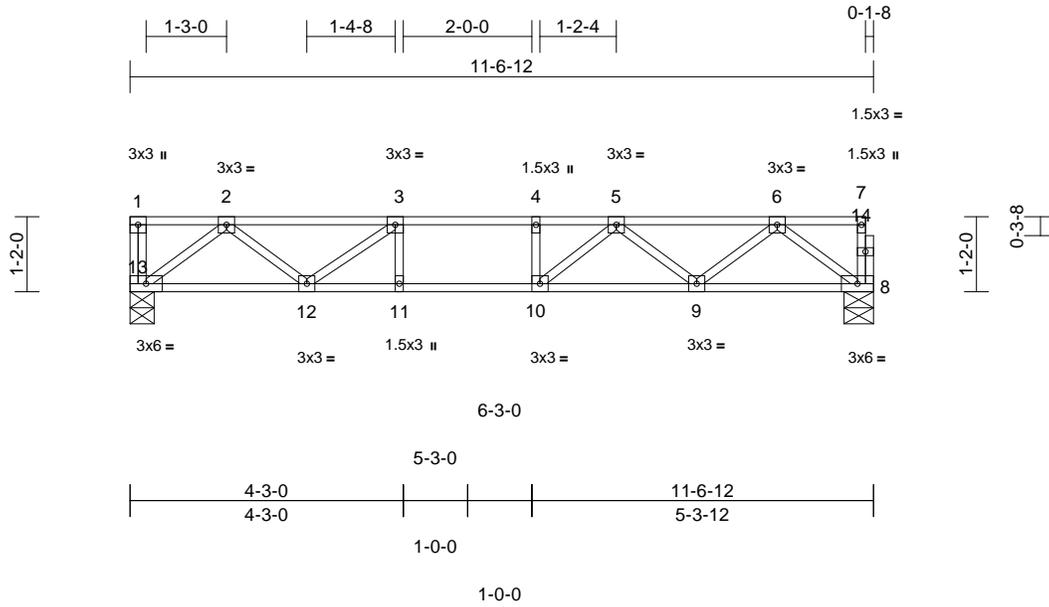
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Blake Pond Lot 00.0094 OWF	I72869800
2503-4262-A	1F7	Floor	8	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:18
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Page: 1



Scale = 1:35.7

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.08	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.10	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 58 lb	FT = 20%F, 12%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=0-5-8, 13=0-4-8

Max Grav 8=411 (LC 1), 13=415 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-13=-27/0, 7-8=-24/0, 1-2=0/0, 2-3=-780/0, 3-4=-1096/0, 4-5=-1096/0, 5-6=-784/0, 6-7=-1/0

BOT CHORD 12-13=0/500, 11-12=0/1096, 10-11=0/1096, 9-10=0/1032, 8-9=0/504

WEBS 3-11=-25/83, 4-10=-109/0, 2-13=-628/0, 2-12=0/364, 3-12=-401/0, 6-8=-631/0, 6-9=0/364, 5-9=-323/0, 5-10=-32/234

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) 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.
- 3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



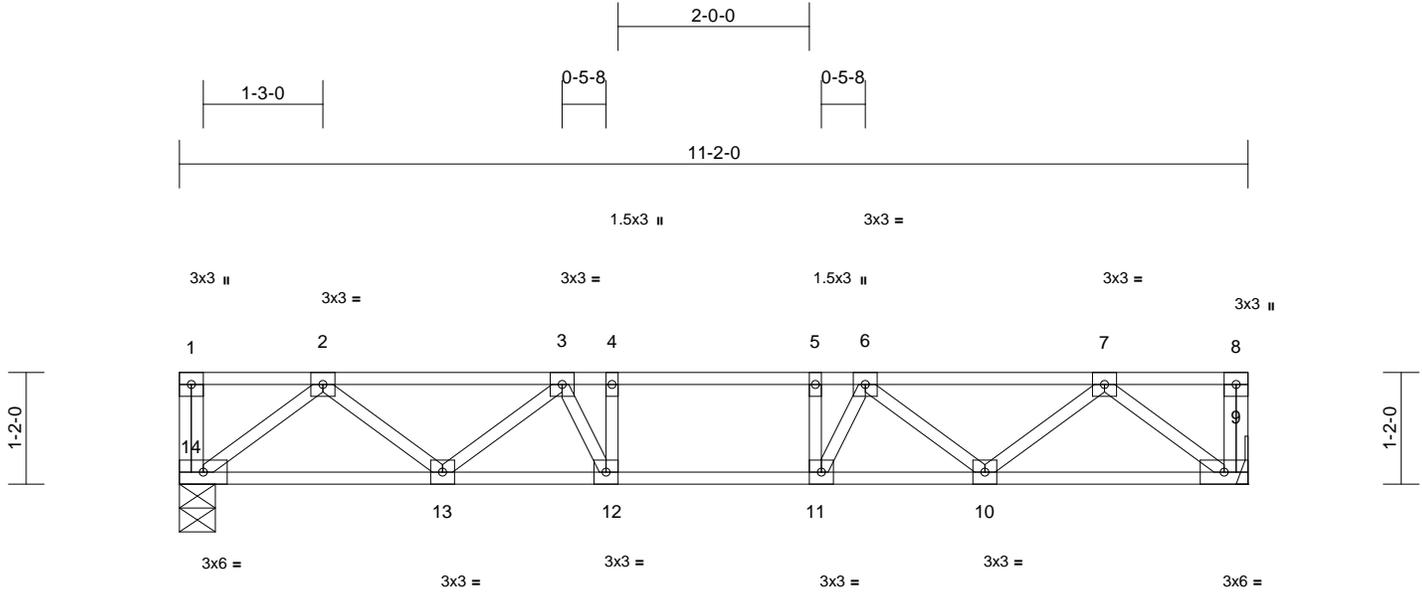
818 Soundside Road
 Edenton, NC 27932

Job 2503-4262-A	Truss 2F3	Truss Type Floor	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869801
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:25
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Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.06	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.08	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 58 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

REACTIONS (size) 9= Mechanical, 14=0-4-8
Max Grav 9=600 (LC 1), 14=600 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-39/0, 8-9=-39/0, 1-2=0/0, 2-3=-1116/0, 3-4=-1536/0, 4-5=-1536/0, 5-6=-1536/0, 6-7=-1116/0, 7-8=0/0
BOT CHORD 13-14=0/726, 12-13=0/1476, 11-12=0/1536, 10-11=0/1476, 9-10=0/726
WEBS 2-14=-910/0, 7-9=-910/0, 2-13=0/508, 7-10=0/508, 3-13=-468/0, 6-10=-468/0, 3-12=-72/402, 6-11=-72/402, 4-12=-298/37, 5-11=-298/37

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 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 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



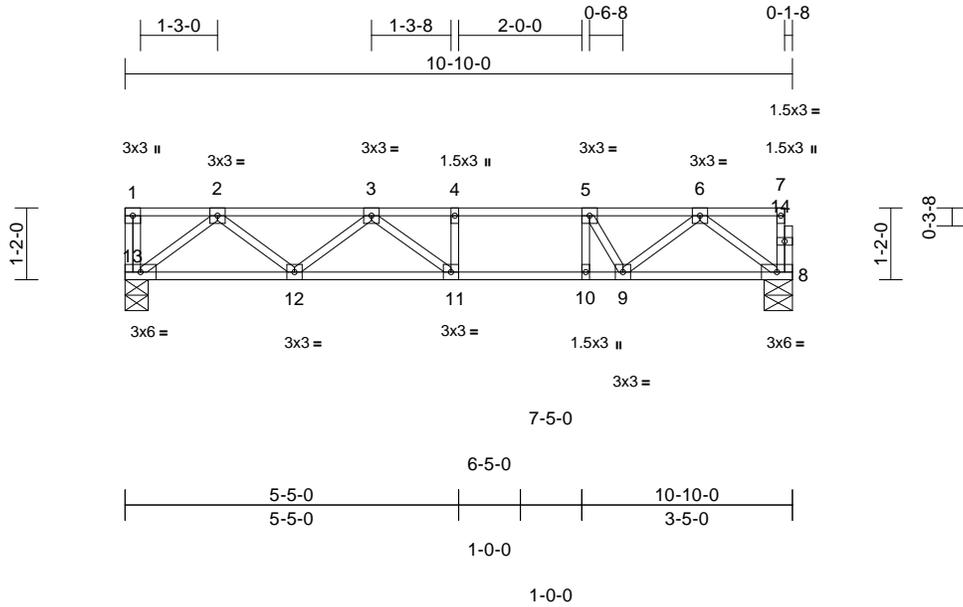
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1F17	Truss Type Floor	Qty 5	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869802
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Structural, LLC, Thurmont, MD - 21788,

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Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.10	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.14	11-12	>931	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 55 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP SS(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=0-5-8, 13=0-4-8
 Max Grav 8=576 (LC 1), 13=582 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-13=-40/0, 7-8=-60/0, 1-2=0/0, 2-3=-1085/0, 3-4=-1400/0, 4-5=-1400/0, 5-6=-1118/0, 6-7=-4/0
 BOT CHORD 12-13=0/707, 11-12=0/1392, 10-11=0/1400, 9-10=0/1400, 8-9=0/665
 WEBS 4-11=-125/0, 5-10=0/282, 2-13=-887/0, 2-12=0/492, 3-12=-401/0, 3-11=-99/242, 6-8=-830/0, 6-9=0/589, 5-9=-614/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) 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.
- 3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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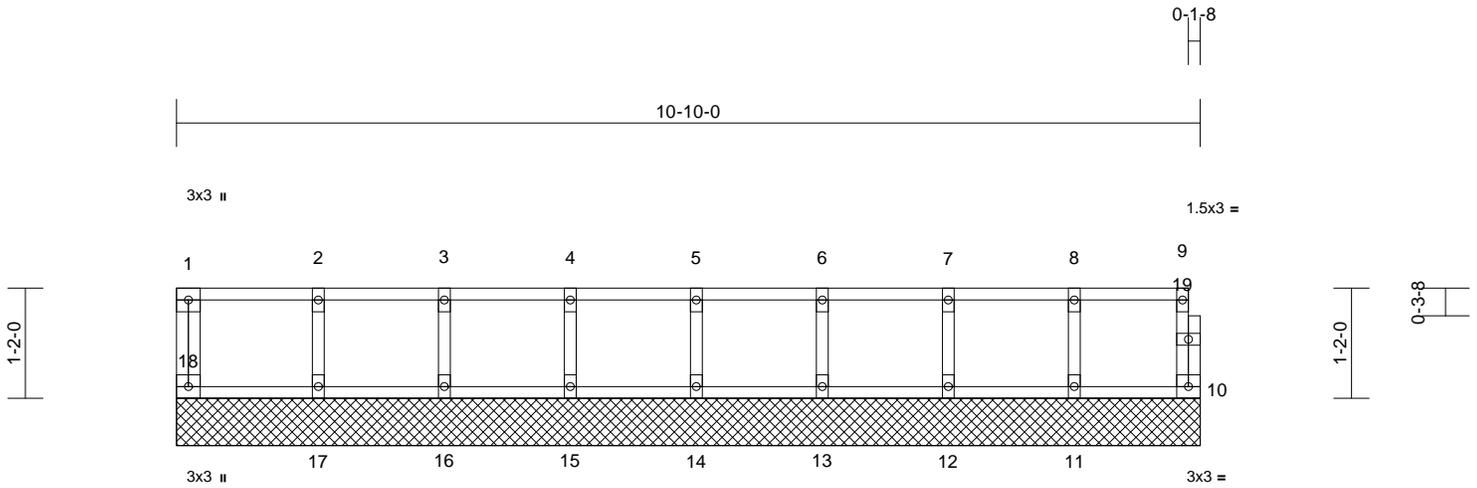
818 Soundside Road
 Edenton, NC 27932

Job 2503-4262-A	Truss 1FGE8	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869803
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:23
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Page: 1



Scale = 1:24.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	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	YES	WB	0.03	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 47 lb	FT = 20%F, 12%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 10-0-0 oc bracing.

LOAD CASE(S) Standard

- REACTIONS** (size)
- 10=10-10-0, 11=10-10-0, 12=10-10-0, 13=10-10-0, 14=10-10-0, 15=10-10-0, 16=10-10-0, 17=10-10-0, 18=10-10-0
 - Max Grav 10=59 (LC 1), 11=139 (LC 1), 12=149 (LC 1), 13=146 (LC 1), 14=147 (LC 1), 15=147 (LC 1), 16=145 (LC 1), 17=154 (LC 1), 18=72 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-18=-66/0, 9-10=-53/0, 1-2=-13/0, 2-3=-13/0, 3-4=-13/0, 4-5=-13/0, 5-6=-13/0, 6-7=-13/0, 7-8=-13/0, 8-9=-13/0
 - BOT CHORD 17-18=0/13, 16-17=0/13, 15-16=0/13, 14-15=0/13, 13-14=0/13, 12-13=0/13, 11-12=0/13, 10-11=0/13
 - WEBS 8-11=-128/0, 7-12=-135/0, 6-13=-133/0, 5-14=-133/0, 4-15=-134/0, 3-16=-132/0, 2-17=-139/0

- NOTES**
- All plates are 1.5x3 (||) MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



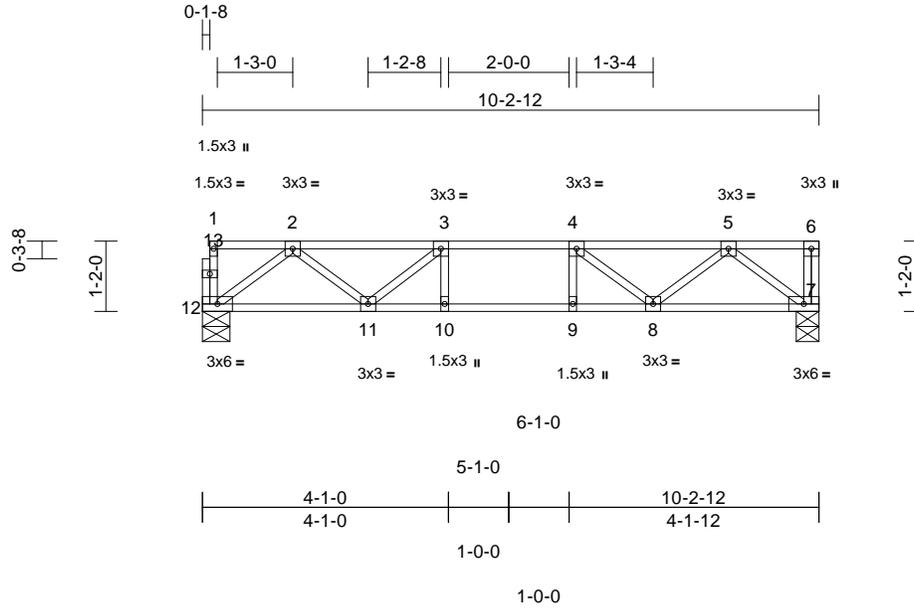
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1F6	Truss Type Floor	Qty 6	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869804
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:18
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Page: 1



Scale = 1:38

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.05	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.06	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%F, 12%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=0-4-8, 12=0-5-8
 Max Grav 7=439 (LC 1), 12=434 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-12=-27/0, 6-7=-29/0, 1-2=-2/0, 2-3=-789/0, 3-4=-1036/0, 4-5=-788/0, 5-6=0/0
 BOT CHORD 11-12=0/526, 10-11=0/1036, 9-10=0/1036, 8-9=0/1036, 7-8=0/529
 WEBS 3-10=-57/84, 4-9=-61/77, 5-7=-664/0, 5-8=0/337, 4-8=-347/0, 2-12=-657/0, 2-11=0/343, 3-11=-351/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10'-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



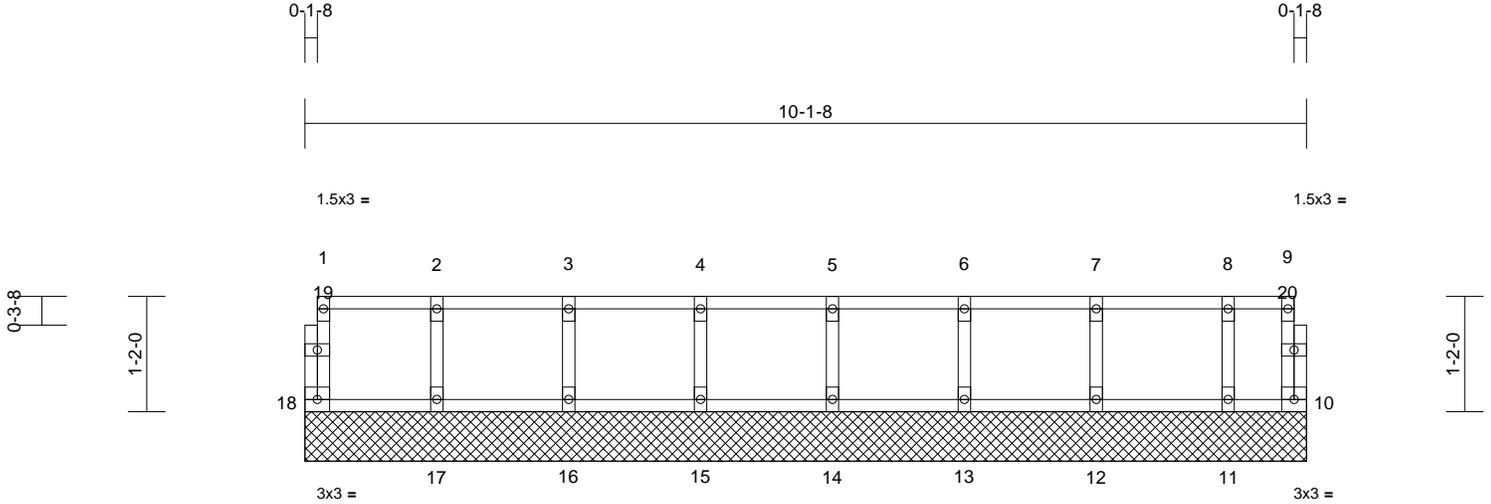
818 Soundside Road
 Edenton, NC 27932

Job 2503-4262-A	Truss 1FGE2	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869805
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:21
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Page: 1



Scale = 1:23.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	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	YES	WB	0.03	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 44 lb	FT = 20%F, 12%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)

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) 10=10-1-8, 11=10-1-8, 12=10-1-8, 13=10-1-8, 14=10-1-8, 15=10-1-8, 16=10-1-8, 17=10-1-8, 18=10-1-8
Max Grav 10=25 (LC 1), 11=111 (LC 1), 12=153 (LC 1), 13=145 (LC 1), 14=147 (LC 1), 15=147 (LC 1), 16=147 (LC 1), 17=147 (LC 1), 18=53 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-49/0, 9-10=-18/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0, 8-9=-7/0
BOT CHORD 17-18=0/7, 16-17=0/7, 15-16=0/7, 14-15=0/7, 13-14=0/7, 12-13=0/7, 11-12=0/7, 10-11=0/7
WEBS 2-17=-132/0, 3-16=-134/0, 4-15=-133/0, 5-14=-134/0, 6-13=-132/0, 7-12=-139/0, 8-11=-106/0

NOTES
1) All plates are 1.5x3 (||) 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 1-4-0 oc.
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 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

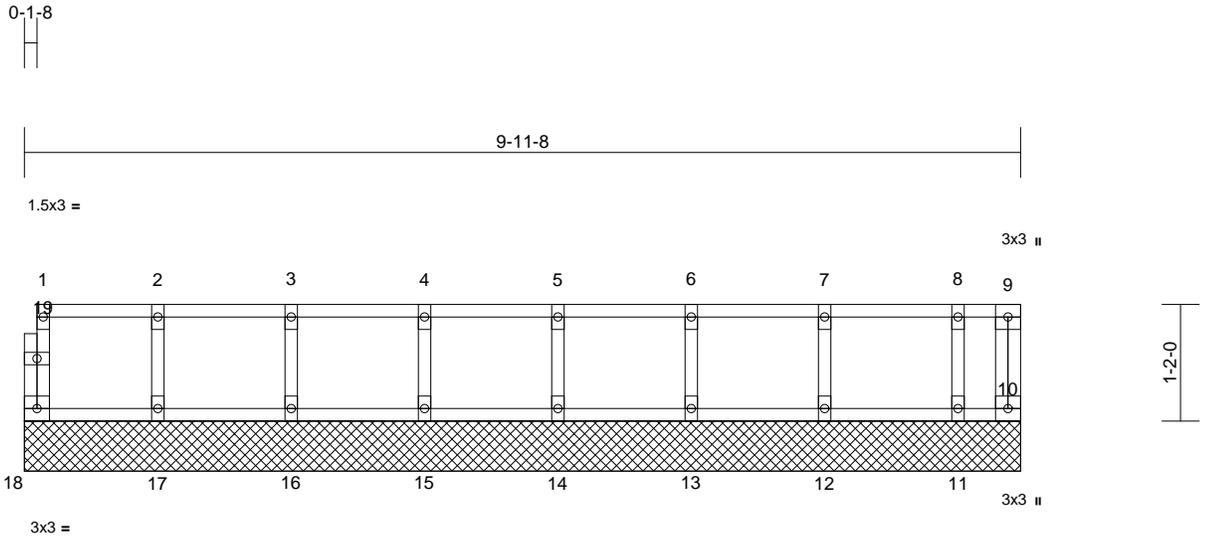
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1FGE9	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869806
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:23
ID:YRnvN8NP9taFV6newsGWDzUiSa-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCD0i7J4zJC7f

Page: 1



Scale = 1:22.9

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	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R						Weight: 44 lb	FT = 20%F, 12%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)
- 10=9-11-8, 11=9-11-8, 12=9-11-8, 13=9-11-8, 14=9-11-8, 15=9-11-8, 16=9-11-8, 17=9-11-8, 18=9-11-8
 - Max Grav 10=19 (LC 1), 11=104 (LC 1), 12=153 (LC 1), 13=145 (LC 1), 14=147 (LC 1), 15=147 (LC 1), 16=147 (LC 1), 17=147 (LC 1), 18=53 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-18=-49/0, 9-10=-11/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0, 8-9=-7/0
 - BOT CHORD 17-18=0/7, 16-17=0/7, 15-16=0/7, 14-15=0/7, 13-14=0/7, 12-13=0/7, 11-12=0/7, 10-11=0/7
 - WEBS 2-17=-132/0, 3-16=-134/0, 4-15=-133/0, 5-14=-134/0, 6-13=-132/0, 7-12=-139/0, 8-11=-102/0

- NOTES**
- 1) All plates are 1.5x3 (||) 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 1-4-0 oc.
 - 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.



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



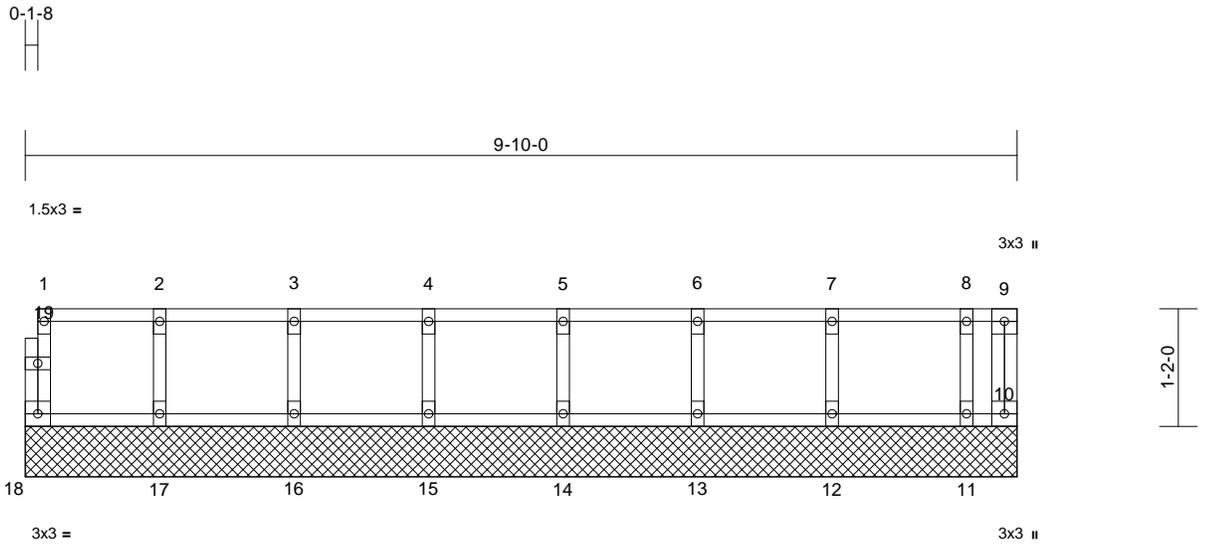
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1FGE3	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869807
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:22
ID:FOIH7q5nAjdoeHPS5h0RRyzew4T-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:22.7

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	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	YES	WB	0.03	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 44 lb	FT = 20%F, 12%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) 10=9-10-0, 11=9-10-0, 12=9-10-0, 13=9-10-0, 14=9-10-0, 15=9-10-0, 16=9-10-0, 17=9-10-0, 18=9-10-0
 Max Grav 10=8 (LC 1), 11=80 (LC 1), 12=122 (LC 1), 13=116 (LC 1), 14=118 (LC 1), 15=117 (LC 1), 16=118 (LC 1), 17=117 (LC 1), 18=43 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-18=-39/0, 9-10=0/0, 1-2=-6/0, 2-3=-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 2-17=-105/0, 3-16=-107/0, 4-15=-106/0, 5-14=-107/0, 6-13=-106/0, 7-12=-111/0, 8-11=-80/0

- NOTES**
- All plates are 1.5x3 (||) MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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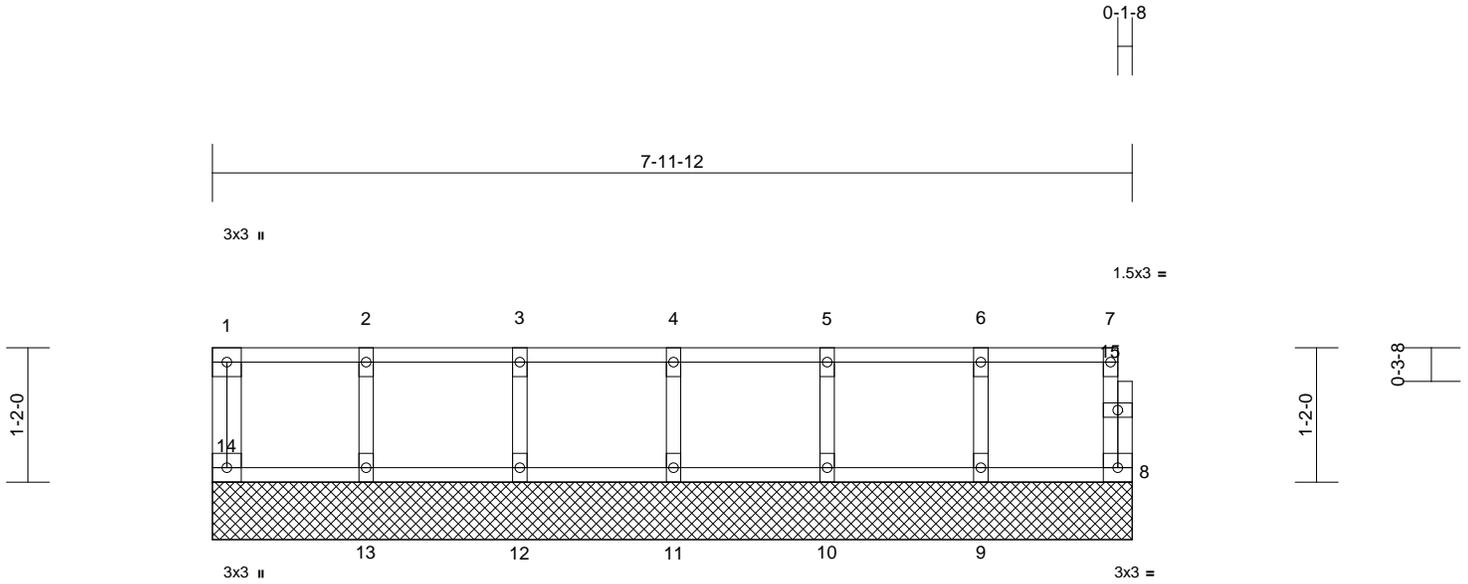
818 Soundside Road
 Edenton, NC 27932

Job 2503-4262-A	Truss 2FGE6	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869808
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Structural, LLC, Thurmont, MD - 21788,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 36 lb	FT = 20%F, 12%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=7-11-12, 9=7-11-12, 10=7-11-12, 11=7-11-12, 12=7-11-12, 13=7-11-12, 14=7-11-12
Max Grav 8=56 (LC 1), 9=141 (LC 1), 10=148 (LC 1), 11=146 (LC 1), 12=148 (LC 1), 13=143 (LC 1), 14=63 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-57/0, 7-8=-50/0, 1-2=-10/0, 2-3=-10/0, 3-4=-10/0, 4-5=-10/0, 5-6=-10/0, 6-7=-10/0
BOT CHORD 13-14=0/10, 12-13=0/10, 11-12=0/10, 10-11=0/10, 9-10=0/10, 8-9=0/10
WEBS 2-13=-130/0, 3-12=-134/0, 4-11=-133/0, 5-10=-135/0, 6-9=-129/0

- NOTES**
- All plates are 1.5x3 (||) MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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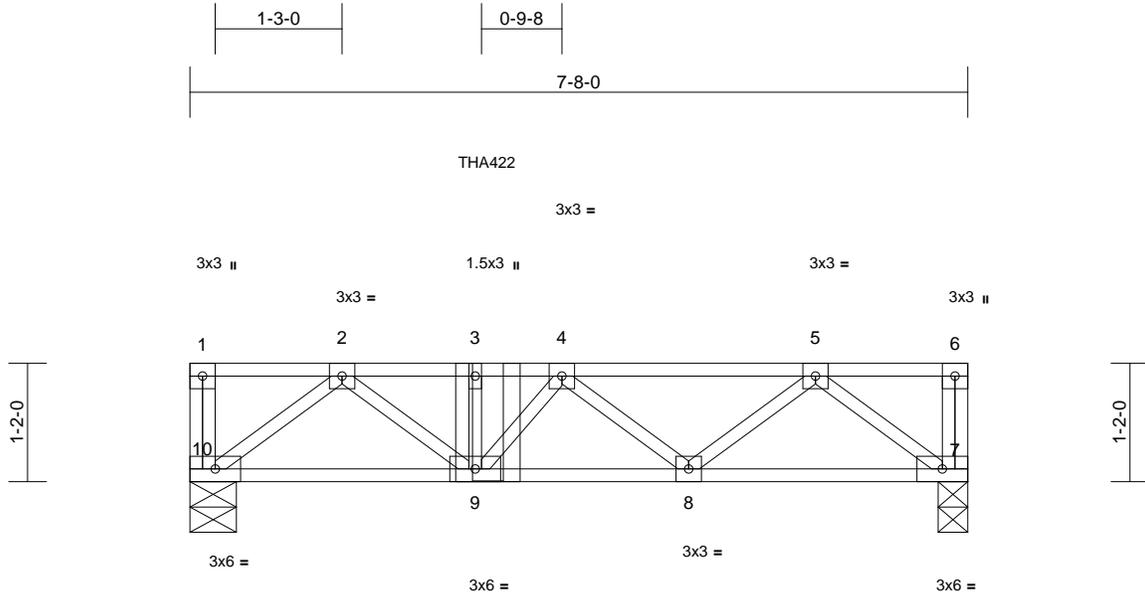
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2FG1	Truss Type Floor Girder	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869809
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:34
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Page: 1



Scale = 1:22.6

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	-0.02	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.03	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 43 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

REACTIONS (size) 7=0-3-8, 10=0-5-8
Max Grav 7=464 (LC 1), 10=568 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-43/0, 6-7=-31/0, 1-2=0/0, 2-3=-1154/0, 3-4=-1154/0, 4-5=-851/0, 5-6=0/0
BOT CHORD 9-10=0/679, 8-9=0/1119, 7-8=0/559
WEBS 5-7=-701/0, 2-10=-852/0, 5-8=0/381, 2-9=0/606, 4-8=-349/0, 3-9=-401/0, 4-9=0/55

NOTES

- 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.
- 2) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 2-11-4 from the left end to connect truss (es) to front face of top chord.
- 3) Fill all nail holes where hanger is in contact with lumber.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 7-10=-8, 1-6=-80
Concentrated Loads (lb)
Vert: 3=-379 (F)



April 21, 2025

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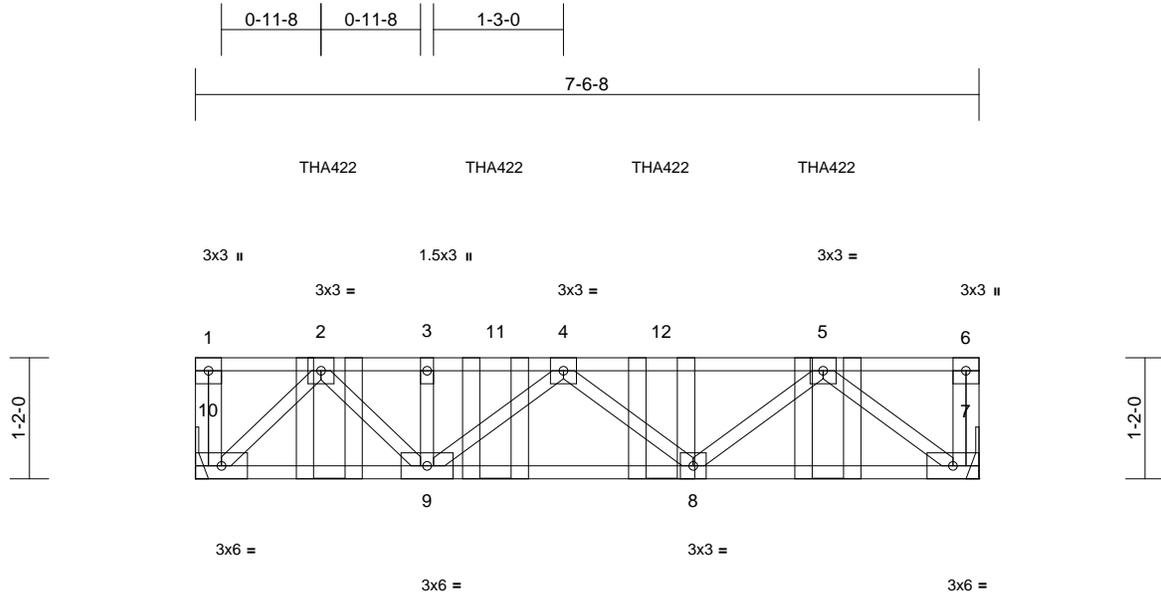
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2FG2	Truss Type Floor Girder	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869810
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:34
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Page: 1



Scale = 1:22.1

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	0.34	Vert(LL)	-0.01	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.28	Vert(CT)	-0.02	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 42 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

REACTIONS (size) 7= Mechanical, 10= Mechanical
Max Grav 7=459 (LC 1), 10=463 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-10=-44/0, 6-7=-35/0, 1-2=0/0, 2-3=-676/0, 3-4=-676/0, 4-5=-720/0, 5-6=0/0
BOT CHORD 9-10=0/426, 8-9=0/860, 7-8=0/545
WEBS 5-7=-684/0, 5-8=0/227, 4-8=-183/0, 4-9=-235/0, 3-9=-85/0, 2-9=0/358, 2-10=-591/0

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) 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.
- 3) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 1-7-3 oc max. starting at 1-3-7 from the left end to 6-1-1 to connect truss(es) to back face of top chord.
- 4) Fill all nail holes where hanger is in contact with lumber.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 7-10=-10, 1-6=-100
Concentrated Loads (lb)
Vert: 5=-30 (B), 2=-30 (B), 11=-30 (B), 12=-30 (B)



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



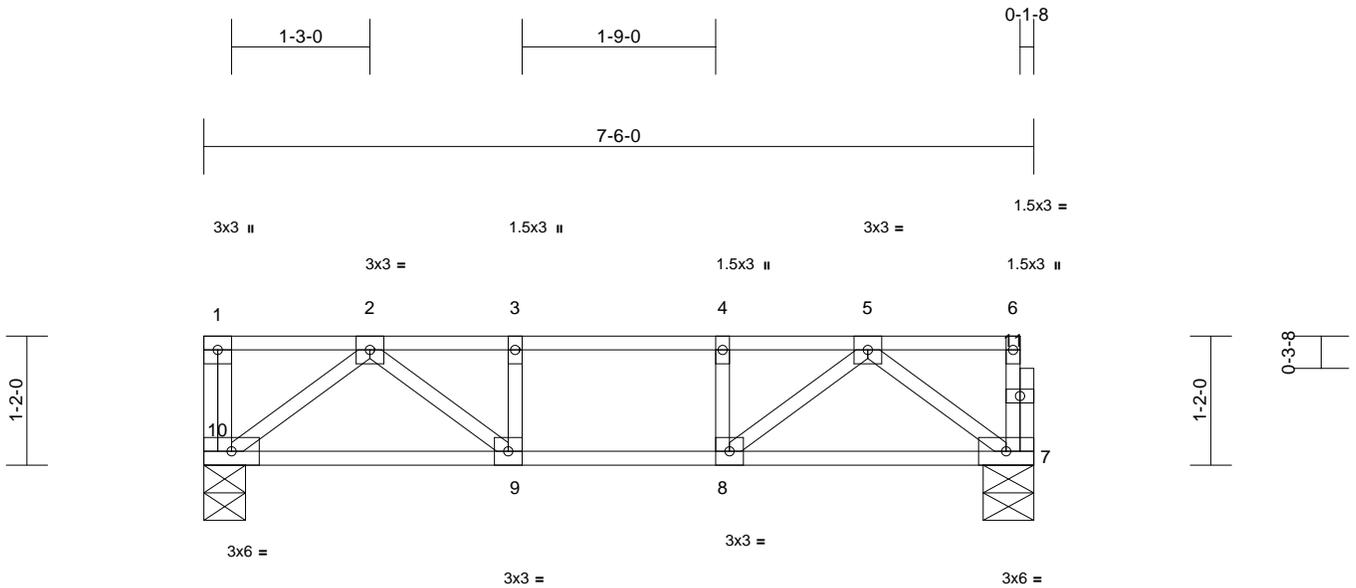
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1F8	Truss Type Floor	Qty 5	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869811
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:18
ID:N51nABj5p09npLTPK1E95ezewPc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:20.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.03	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.26	Vert(CT)	-0.03	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%F, 12%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=0-5-8, 10=0-4-8
 Max Grav 7=393 (LC 1), 10=399 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-10=-58/0, 6-7=-55/0, 1-2=0/0, 2-3=-672/0, 3-4=-672/0, 4-5=-672/0, 5-6=-3/0
 BOT CHORD 9-10=0/434, 8-9=0/672, 7-8=0/433
 WEBS 2-10=-545/0, 5-7=-539/0, 2-9=0/345, 5-8=0/346, 3-9=-169/0, 4-8=-169/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) 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.
- 3) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 21, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



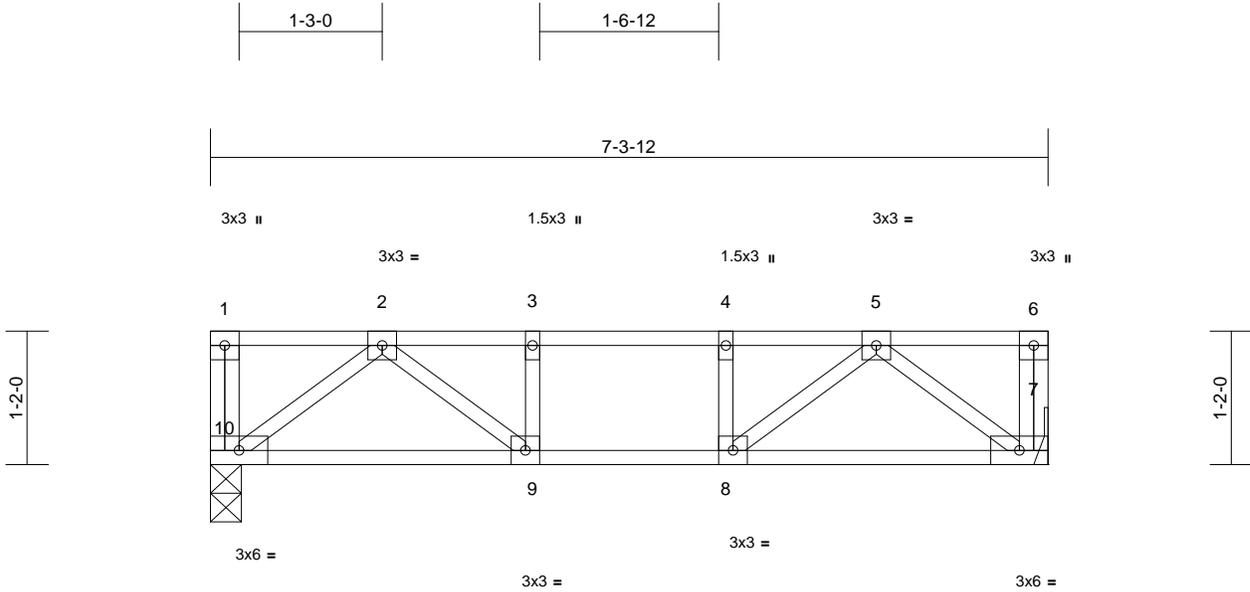
818 Soundside Road
 Edenton, NC 27932

Job 2503-4262-A	Truss 2F15	Truss Type Floor	Qty 2	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869812
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:29
ID:Vg1su3wf9kK2JRaELxjd8ny8MUL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:20

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	-0.02	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.03	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

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

- REACTIONS** (size) 7= Mechanical, 10=0-3-4
Max Grav 7=388 (LC 1), 10=388 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-10=-57/0, 6-7=-57/0, 1-2=0/0, 2-3=-641/0, 3-4=-641/0, 4-5=-641/0, 5-6=0/0
 - BOT CHORD 9-10=0/421, 8-9=0/641, 7-8=0/421
 - WEBS 5-7=-529/0, 2-10=-529/0, 5-8=0/321, 2-9=0/321, 3-9=-155/0, 4-8=-155/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- 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 21, 2025

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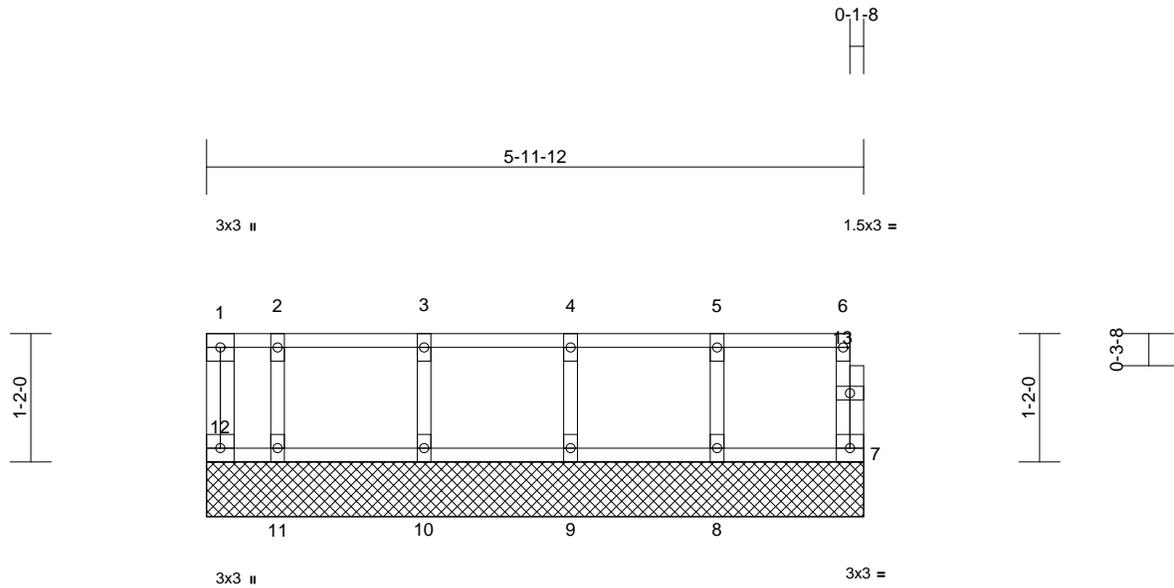
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1FGE5	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869813
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:22
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	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	YES	WB	0.03	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 28 lb	FT = 20%F, 12%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 5-11-12 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

- REACTIONS** (size) 7=5-11-12, 8=5-11-12, 9=5-11-12, 10=5-11-12, 11=5-11-12, 12=5-11-12
- Max Grav 7=53 (LC 1), 8=147 (LC 1), 9=145 (LC 1), 10=153 (LC 1), 11=104 (LC 1), 12=21 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

- TOP CHORD 1-12=-13/0, 6-7=-49/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-5=-7/0, 5-6=-7/0
- BOT CHORD 11-12=0/7, 10-11=0/7, 9-10=0/7, 8-9=0/7, 7-8=0/7
- WEBS 5-8=-132/0, 4-9=-133/0, 3-10=-138/0, 2-11=-102/0

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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



April 21, 2025

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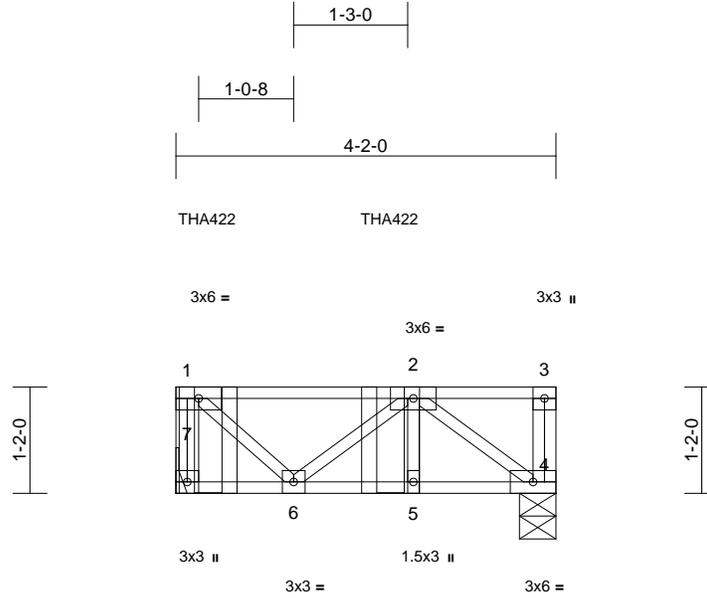
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2FG3	Truss Type Floor Girder	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869814
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Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Apr 11 2025 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Fri Apr 18 09:53:34
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.01	5	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.25	Vert(CT)	-0.01	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 26 lb	FT = 20%F, 12%E

LUMBER

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

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) 4=0-4-13, 7= Mechanical
Max Grav 4=579 (LC 1), 7=1038 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=-1033/0, 3-4=-35/0, 1-2=-357/0, 2-3=0/0
BOT CHORD 6-7=0/0, 5-6=0/735, 4-5=0/735
WEBS 2-4=-908/0, 2-5=0/5, 2-6=-483/0, 1-6=0/478

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) 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.
- 3) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-4-4 from the left end to 2-4-4 to connect truss(es) to front face of top chord.
- 4) Fill all nail holes where hanger is in contact with lumber.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 4-7=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 2=-574 (F), 1=-612 (F)



April 21, 2025

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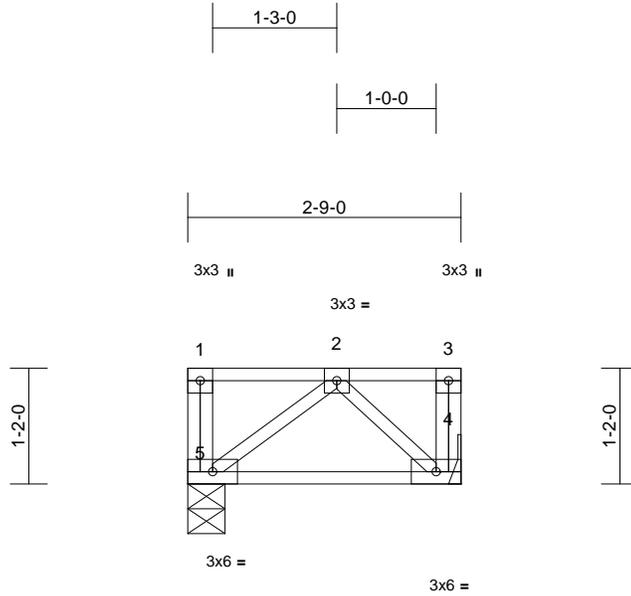
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2F7	Truss Type Floor	Qty 4	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	I72869815
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Structural, LLC, Thurmont, MD - 21788,

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Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.06	Vert(CT)	-0.01	4-5	>999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P						Weight: 18 lb	FT = 20%F, 12%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 5=0-4-8
Max Grav 4=110 (LC 1), 5=110 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-5=-44/0, 3-4=-31/0, 1-2=0/0, 2-3=0/0
BOT CHORD 4-5=0/74
WEBS 2-5=-93/0, 2-4=-101/0

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) 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 21, 2025

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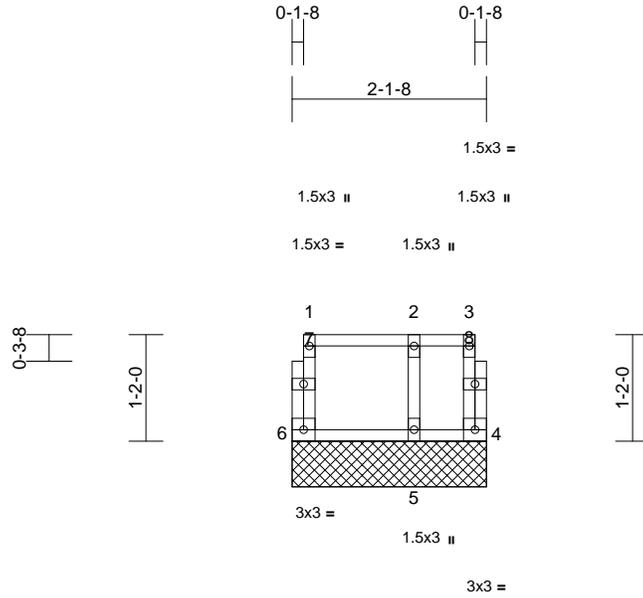
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 2FGE7	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869816
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Structural, LLC, Thurmont, MD - 21788,

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Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.04	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	YES	WB	0.02	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 12 lb	FT = 20%F, 12%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 2-1-8 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

- REACTIONS** (size) 4=2-1-8, 5=2-1-8, 6=2-1-8
Max Grav 4=19 (LC 1), 5=70 (LC 1), 6=40 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-37/0, 3-4=-14/0, 1-2=-6/0, 2-3=-6/0
BOT CHORD 5-6=0/6, 4-5=0/6
WEBS 2-5=-66/0

NOTES

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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 21, 2025

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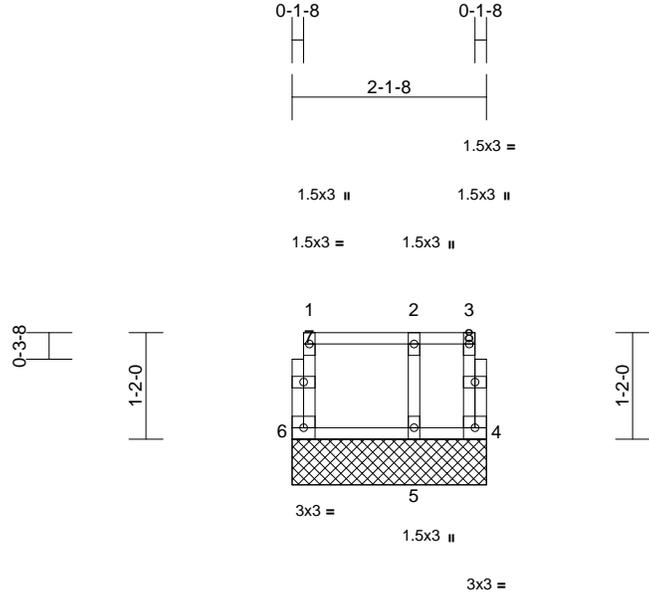
818 Soundside Road
Edenton, NC 27932

Job 2503-4262-A	Truss 1FGE10	Truss Type Floor Supported Gable	Qty 1	Ply 1	Blake Pond Lot 00.0094 OWF Job Reference (optional)	172869817
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Structural, LLC, Thurmont, MD - 21788,

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Page: 1



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	0.05	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	YES	WB	0.02	Horiz(TL)	0.00 4 n/a n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R				Weight: 12 lb	FT = 20%F, 12%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 2-1-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4=2-1-8, 5=2-1-8, 6=2-1-8
Max Grav 4=29 (LC 1), 5=105 (LC 1), 6=60 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-55/0, 3-4=-22/0, 1-2=-9/0, 2-3=-9/0
BOT CHORD 5-6=0/9, 4-5=0/9
WEBS 2-5=-100/0

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 1-4-0 oc.
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 21, 2025

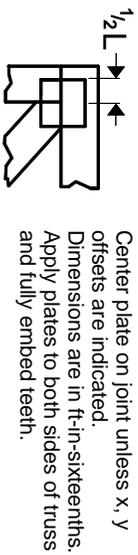
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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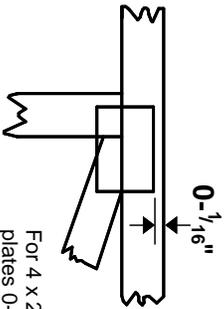
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

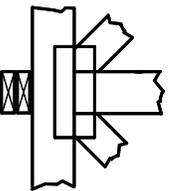
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

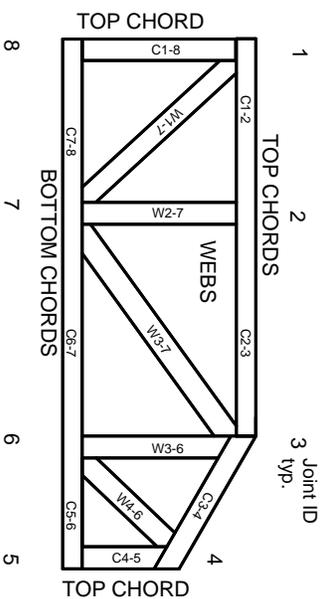


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & 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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on Lumber values established by others.

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ENGINEERING BY
TRENGO
A MITek Affiliate

MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.