

RE: 2411-0122-E - Stonehaven Rev 2-EL-6,7-Floor

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Project Customer: DRB Raleigh Project Name: DRB Raleigh Model Track

Lot/Block: Subdivision: NC

Model:

Address:

City: State:

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

Design Code: IRC2021/TPI2014

Design Program: MiTek 20/20 25.2

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

Mean Roof Height (feet): 25

Exposure Category: B

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I73795559	1FGE1	5/28/25	35	I73795593	1F10	5/28/25
2	I73795560	1FGE2	5/28/25	36	I73795594	1F9	5/28/25
3	I73795561	1F1	5/28/25	37	I73795595	2FG1	5/28/25
4	I73795562	1F1A	5/28/25	38	I73795596	2FG2	5/28/25
5	I73795563	1F1B	5/28/25	39	I73795597	2FG3	5/28/25
6	I73795564	1F2	5/28/25	40	I73795598	2FG4	5/28/25
7	I73795565	1F3	5/28/25	41	I73795599	2FGE1	5/28/25
8	I73795566	1F4	5/28/25		I73795600	2F1	5/28/25
9	I73795567	1F5	5/28/25	43	I73795601	2F2	5/28/25
10	I73795568	1F6	5/28/25	44	I73795602	2F4	5/28/25
11	I73795569	1FGE7	5/28/25	45	I73795603	2F5	5/28/25
12	I73795570	1F13	5/28/25	46	I73795604	2F6	5/28/25
13	I73795571	1F20	5/28/25	47	I73795605	2F8	5/28/25
14	I73795572	1F18	5/28/25	48	I73795606	2F10	5/28/25
	I73795573	1F17	5/28/25	49	I73795607	2F11	5/28/25
16	I73795574	1F16	5/28/25	50	I73795608	2FGE2	5/28/25
17	I73795575	1FGE9	5/28/25		I73795609	2FGE3	5/28/25
18	I73795576	1FGE8	5/28/25	52	I73795610	2F12	5/28/25
19	I73795577	1F21	5/28/25	53	I73795611	2F14	5/28/25
20	I73795578	1F22	5/28/25	54	I73795612	2F15	5/28/25
21	I73795579	1F23	5/28/25	55	I73795613	2F16	5/28/25
22	I73795580	1F24	5/28/25	56	I73795614	2F17	5/28/25
23	I73795581	1F8	5/28/25	57	I73795615	2F18	5/28/25
	I73795582	1FGE5	5/28/25	58	I73795616	2FGE6	5/28/25
25	I73795583	1F7	5/28/25	59	I73795617	2F20	5/28/25
26	I73795584	1FGE4	5/28/25		I73795618	2F21	5/28/25
27	I73795585	1FGE3	5/28/25	61	I73795619	2F22A	5/28/25
28	I73795586	1F25	5/28/25	62	I73795620	2F22	5/28/25
29	I73795587	1F19	5/28/25	63	I73795621	2F23A	5/28/25
30	I73795588	1FGE6	5/28/25	64	I73795622	2F24	5/28/25
31	I73795589	1F15	5/28/25	65	I73795623	2F25	5/28/25
32	I73795590	1F14	5/28/25	66	I73795624	2F26	5/28/25
	I73795591	1F12	5/28/25	67	I73795625	2FGE4	5/28/25
34	I73795592	1F11	5/28/25	68	I73795626	2F27	5/28/25

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: Gilbert, Eric

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.



May 28, 2025

RE: 2411-0122-E - Stonehaven Rev 2-EL-6,7-Floor

Trenco
818 Soundside Rd
Edenton, NC 27932

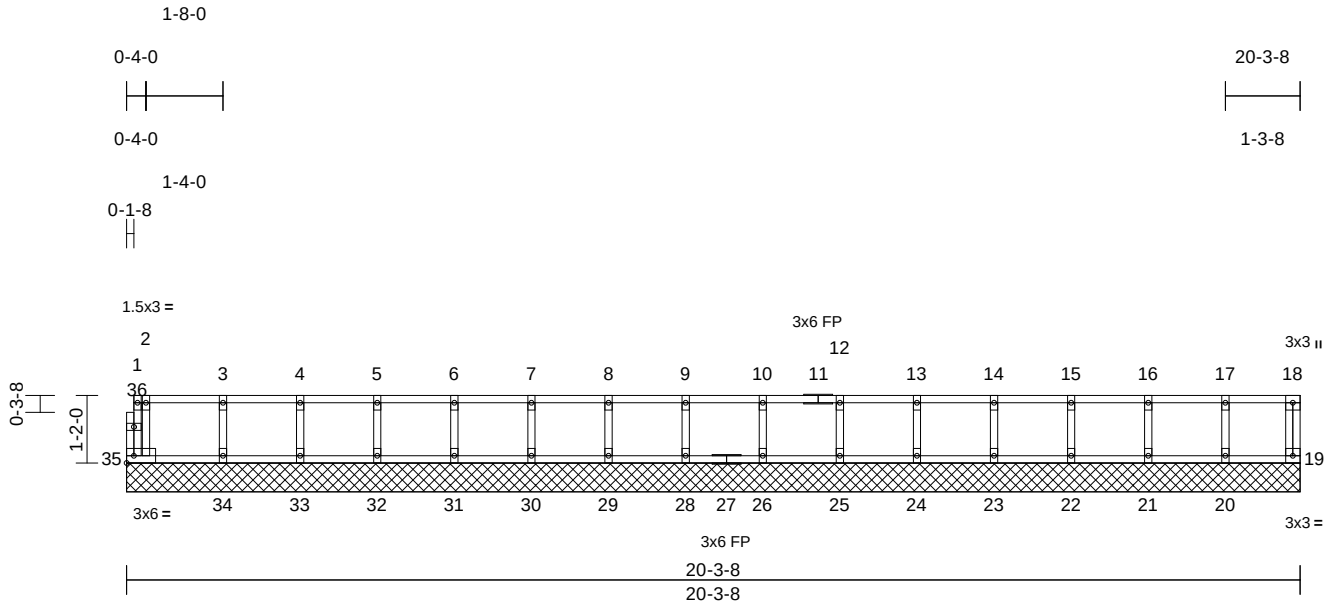
No.	Seal#	Truss Name	Date
69	I73795627	2FG5	5/28/25
70	I73795628	2FGE5	5/28/25
71	I73795629	1FGER	5/28/25
72	I73795630	1F5A	5/28/25
73	I73795631	1F6A	5/28/25
74	I73795632	1FGE3A	5/28/25
75	I73795633	1FGE10	5/28/25
76	I73795634	2F9A	5/28/25
77	I73795635	2F11A	5/28/25
78	I73795636	2FGE2A	5/28/25
79	I73795637	2F1A	5/28/25
80	I73795638	2F9B	5/28/25
81	I73795639	2F16A	5/28/25
82	I73795640	2F24A	5/28/25
83	I73795641	2F26A	5/28/25
84	I73795642	1F26	5/28/25
85	I73795643	1F27GE	5/28/25
86	I73795644	1F28	5/28/25
87	I73795645	1F28GE	5/28/25
88	I73795646	1F27	5/28/25
89	I73795647	2F6A	5/28/25
90	I73795648	1F26A	5/28/25
91	I73795649	1F4A	5/28/25
92	I73795650	1F29	5/28/25
93	I73795651	1F27AGE	5/28/25
94	I73795652	1F28A	5/28/25
95	I73795653	1F28AGE	5/28/25

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1FGE1	Floor Supported Gable	1	1	173795559
Job Reference (optional)					

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:17
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Page: 1



Scale = 1:39.8

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	0.06	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	0.00	19	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R						Weight: 86 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)	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, 28=20-3-8, 29=20-3-8, 30=20-3-8, 31=20-3-8, 32=20-3-8, 33=20-3-8, 34=20-3-8, 35=20-3-8
Max Grav		19=43 (LC 1), 20=89 (LC 1), 21=100 (LC 1), 22=97 (LC 1), 23=98 (LC 1), 24=98 (LC 1), 25=98 (LC 1), 26=98 (LC 1), 28=98 (LC 1), 29=98 (LC 1), 30=98 (LC 1), 31=98 (LC 1), 32=98 (LC 1), 33=95 (LC 1), 34=107 (LC 1), 35=52 (LC 1)

FORCES

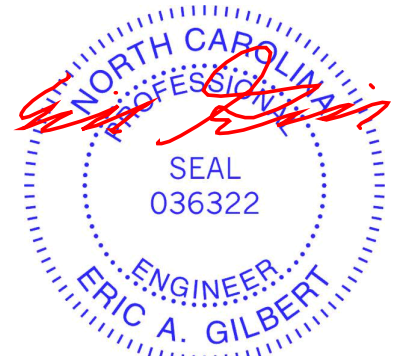
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-35=0/13, 18-19=-38/0, 1-2=-1/0, 2-3=-9/0, 3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0, 7-8=-9/0, 8-9=-9/0, 9-10=-9/0, 10-12=-9/0, 12-13=-9/0, 13-14=-9/0, 14-15=-9/0, 15-16=-9/0, 16-17=-9/0, 17-18=-9/0
BOT CHORD	34-35=0/9, 33-34=0/9, 32-33=0/9, 31-32=0/9, 30-31=0/9, 29-30=0/9, 28-29=0/9, 26-28=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
WEBS	17-20=-83/0, 16-21=-90/0, 15-22=-89/0, 14-23=-89/0, 13-24=-89/0, 12-25=-89/0, 10-26=-89/0, 9-28=-89/0, 8-29=-89/0, 7-30=-89/0, 6-31=-89/0, 5-32=-89/0, 4-33=-87/0, 3-34=-95/0, 2-35=-62/0

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



May 28, 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)

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818 Soundside Road
Edenton, NC 27932

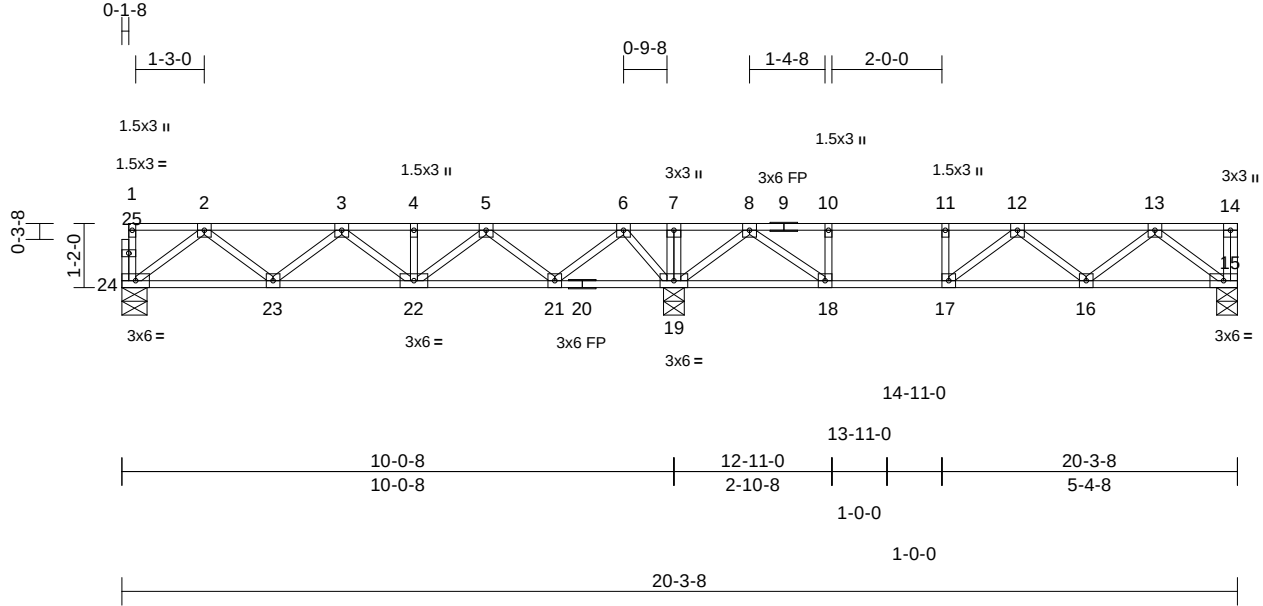
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F1	Floor	6	1	Job Reference (optional)

I73795561

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:13
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Page: 1



Scale = 1:41.9

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	0.46	Vert(LL)	-0.09	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.12	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 104 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, Except:
6-0-0 oc bracing: 19-21,18-19.

REACTIONS (size) 15=0-4-8, 19=0-4-8, 24=0-5-8
Max Grav 15=368 (LC 4), 19=779 (LC 1),
24=351 (LC 8)

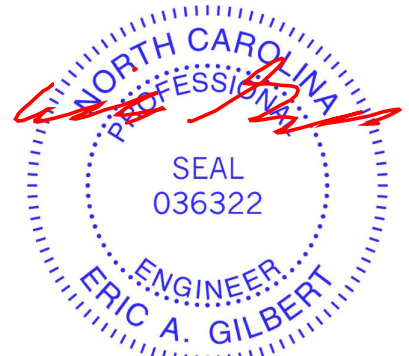
FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-24=-23/0, 14-15=-28/0, 1-2=-1/0,
2-3=-631/0, 3-4=-819/0, 4-5=-819/0,
5-6=-509/0, 6-7=0/369, 7-8=0/370,
8-10=-810/0, 10-11=-810/0, 11-12=-810/0,
12-13=-675/0, 13-14=0/0
BOT CHORD 23-24=0/425, 22-23=0/815, 21-22=0/753,
19-21=-27/237, 18-19=-96/398, 17-18=0/810,
16-17=0/856, 15-16=0/444
WEBS 7-19=-81/0, 10-18=-252/0, 11-17=-25/35,
2-24=-531/0, 2-23=0/269, 3-23=-239/0,
3-22=-44/7, 8-19=-559/0, 4-22=-42/0,
5-22=0/136, 5-21=-367/0, 6-21=0/395,
6-19=-514/0, 13-15=-557/0, 13-16=0/300,
12-16=-236/0, 12-17=-137/12, 8-18=0/563

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



May 28,2025

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.sbcacompnents.com)

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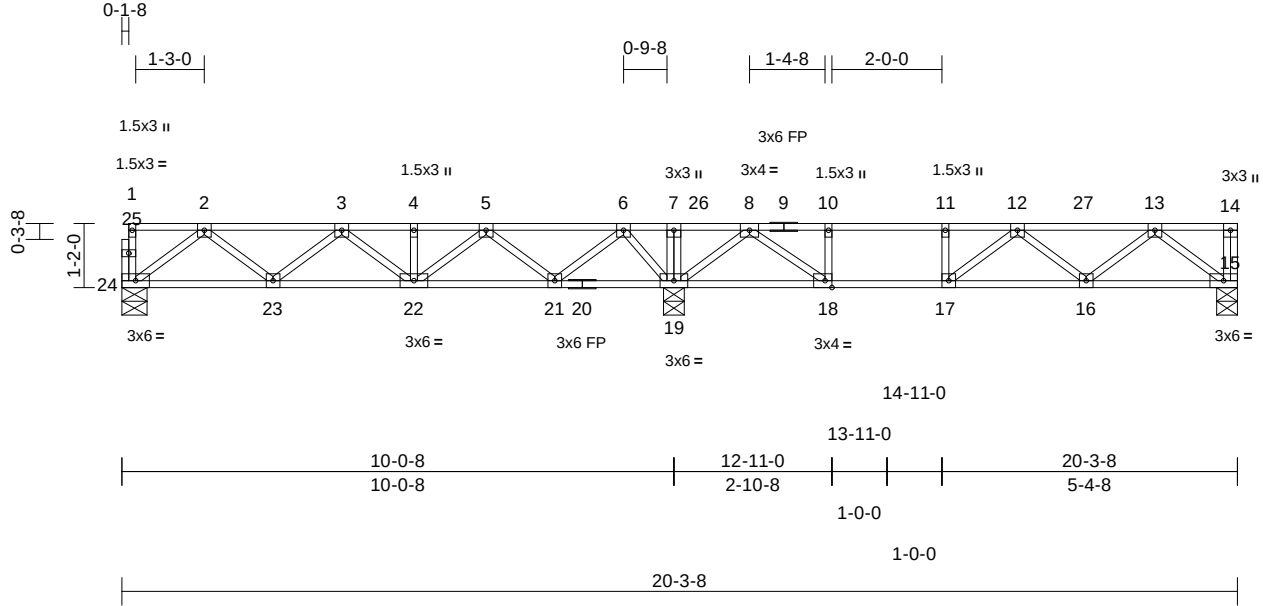
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F1A	Floor	3	1	173795562
Job Reference (optional)					

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:14
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Page: 1



Scale = 1:41.9									
Plate Offsets (X, Y): [18:0-1-8,Edge]									
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.09	16-17	>999
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.15	16-17	>791
BCLL	0.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.02	15	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S					n/a
PLATES MT20 GRIP 244/190									
Weight: 104 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)

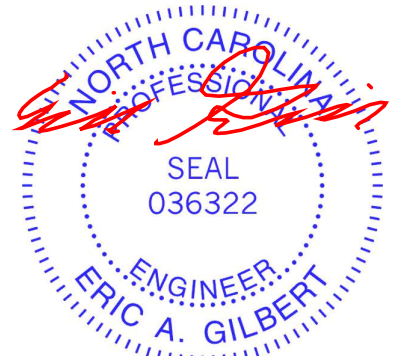
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
6-0-0 oc bracing: 19-21.

REACTIONS (size) 15=0-4-8, 19=0-4-8, 24=0-5-8
Max Grav 15=464 (LC 4), 19=930 (LC 1), 24=351 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-24=-23/0, 14-15=-26/0, 1-2=-1/0, 2-3=-631/0, 3-4=-817/0, 4-5=-817/0, 5-6=-507/0, 6-7=0/370, 7-8=0/371, 8-10=-1158/0, 10-11=-1158/0, 11-12=-1158/0, 12-13=-915/0, 13-14=0/0
BOT CHORD 23-24=0/424, 22-23=0/814, 21-22=0/751, 19-21=-32/232, 18-19=0/581, 17-18=0/1158, 16-17=0/1196, 15-16=0/575
WEBS 7-19=-102/0, 10-18=-355/0, 11-17=-51/9, 2-24=-530/0, 2-23=0/269, 3-23=-238/0, 3-22=-45/6, 8-19=-792/0, 13-15=-722/0, 13-16=0/442, 12-16=-366/0, 12-17=-125/23, 4-22=-41/0, 5-22=0/135, 5-21=-368/0, 6-21=0/399, 6-19=-509/0, 8-18=0/768

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x3 (=) MT20 unless otherwise indicated.
 - 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: 15-24=-7, 1-26=-67, 26-27=-102, 14-27=-67



May 28,2025

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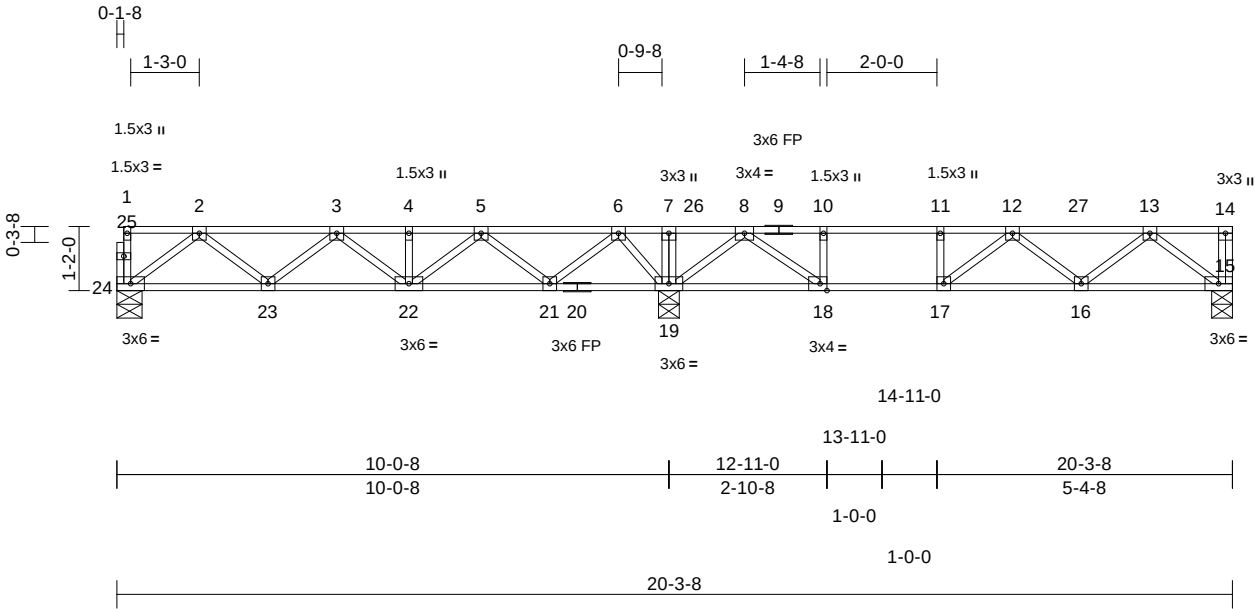
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F1B	Floor	1	1	173795563
Job Reference (optional)					

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:14
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Page: 1



Scale = 1:41.9

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	0.69	Vert(LL)	-0.09	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.15	16-17	>813	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.02	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 104 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, Except:
	6-0-0 oc bracing: 19-21.

REACTIONS	(size)	15=0-4-8, 19=0-4-8, 24=0-5-8
	Max Grav	15=453 (LC 4), 19=913 (LC 1), 24=351 (LC 8)

FORCES	(lb) - Maximum Compression/Maximum Tension
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TOP CHORD	1-24=-23/0, 14-15=-26/0, 1-2=-1/0, 2-3=-631/0, 3-4=-817/0, 4-5=-817/0, 5-6=-507/0, 6-7=0/370, 7-8=0/371, 8-10=-1118/0, 10-11=-1118/0, 11-12=-1118/0, 12-13=-887/0, 13-14=0/0
BOT CHORD	23-24=0/424, 22-23=0/814, 21-22=0/751, 19-21=-31/232, 18-19=0/560, 17-18=0/1118, 16-17=0/1156, 15-16=0/560
WEBS	7-19=-100/0, 10-18=-343/0, 11-17=-48/12, 2-24=-530/0, 2-23=0/269, 3-23=-238/0, 3-22=-45/6, 8-19=-765/0, 13-15=-703/0, 13-16=0/425, 12-16=-351/0, 12-17=-126/22, 4-22=-41/0, 5-22=0/135, 5-21=-368/0, 6-21=0/399, 6-19=-509/0, 8-18=0/744

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x3 (=) MT20 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.
- 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: 15-24=-7, 1-26=-67, 26-27=-98, 14-27=-67



May 28,2025

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

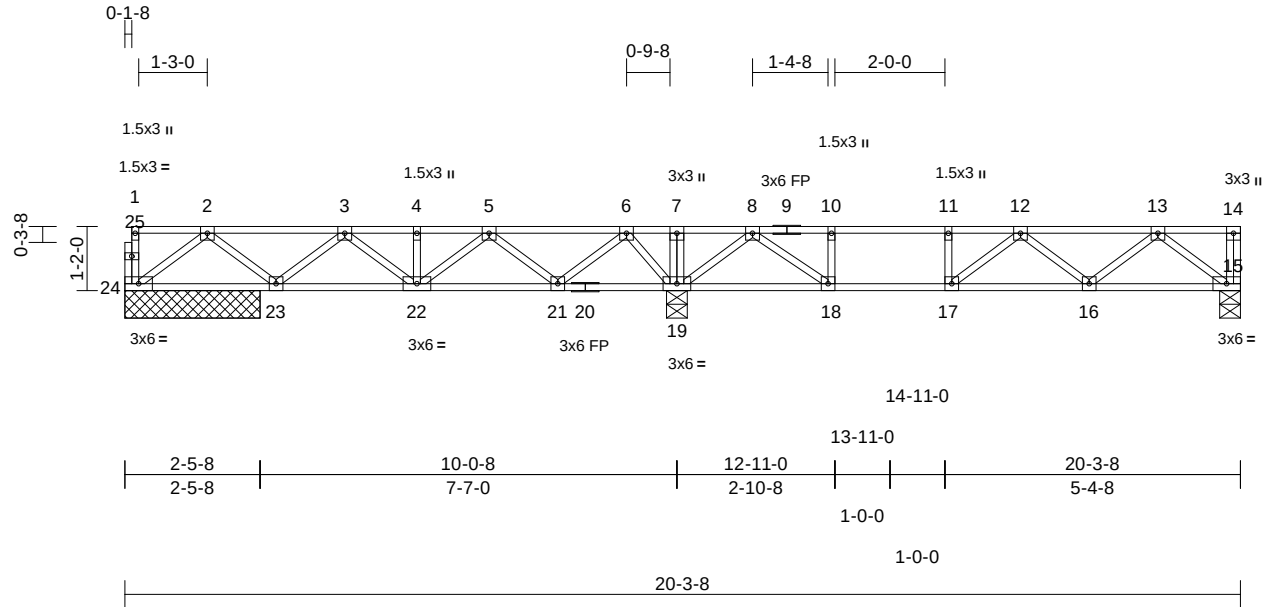
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F2	Floor	1	1	Job Reference (optional)

I73795564

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:14
ID:8tzplXum1Xr_OZOMmVglBPzewcl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:41.9

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	0.53	Vert(LL)	-0.09	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.12	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.02	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 104 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, Except:
 6-0-0 oc bracing: 19-21,18-19.

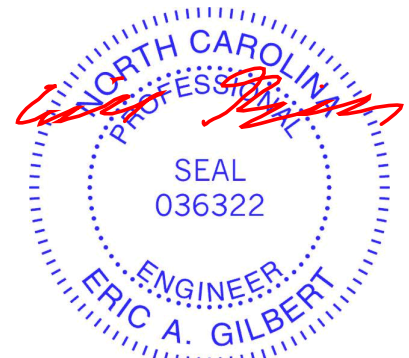
REACTIONS (size) 15=0-4-8, 19=0-4-8, 24=2-5-8
 Max Grav 15=368 (LC 4), 19=779 (LC 1),
 24=351 (LC 8)

FORCES (lb) - Maximum Compression/Maximum
 Tension

TOP CHORD 1-24=-23/0, 14-15=-28/0, 1-2=-1/0,
 2-3=-631/0, 3-4=-819/0, 4-5=-819/0,
 5-6=-509/0, 6-7=0/369, 7-8=0/370,
 8-10=-810/0, 10-11=-810/0, 11-12=-810/0,
 12-13=-675/0, 13-14=0/0
 BOT CHORD 23-24=0/425, 22-23=0/815, 21-22=0/753,
 19-21=-27/237, 18-19=-96/398, 17-18=0/810,
 16-17=0/856, 15-16=0/444
 WEBS 7-19=-81/0, 10-18=-252/0, 11-17=-25/35,
 2-24=-531/0, 2-23=0/269, 3-23=-239/0,
 8-19=-559/0, 4-22=-42/0, 5-22=0/136,
 5-21=-367/0, 6-21=0/395, 6-19=-514/0,
 13-16=0/300, 12-16=-236/0, 12-17=-137/12,
 8-18=0/563, 3-22=-44/7, 13-15=-557/0

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

May 28,2025

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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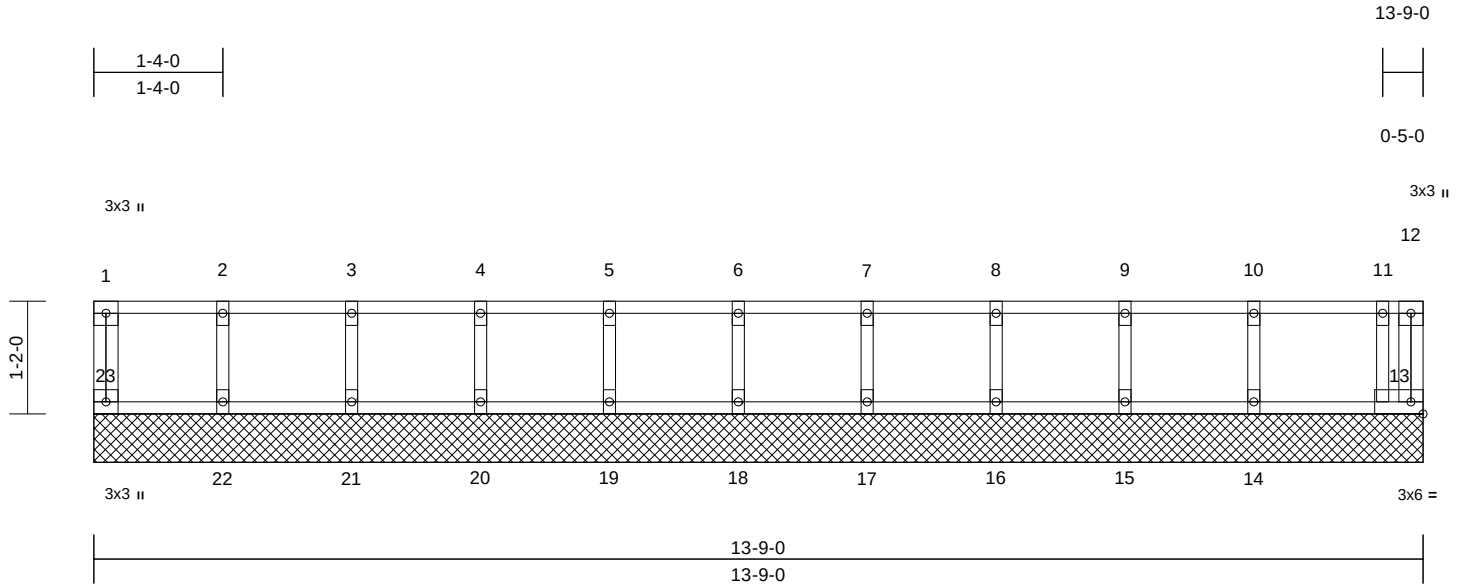
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795569
	1FGE7	Floor Supported Gable	1	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:18
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Page: 1



Scale = 1:23.8

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	0.07	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	0.00	13	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R						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)

- 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

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=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, 23=13-9-0
Max Grav 13=75 (LC 1), 14=129 (LC 1), 15=114 (LC 1), 16=118 (LC 1), 17=117 (LC 1), 18=117 (LC 1), 19=117 (LC 1), 20=117 (LC 1), 21=120 (LC 1), 22=108 (LC 1), 23=55 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-23=-48/0, 12-13=0/5, 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, 9-10=-13/0, 10-11=-13/0, 11-12=0/0
BOT CHORD 22-23=0/13, 21-22=0/13, 20-21=0/13, 19-20=0/13, 18-19=0/13, 17-18=0/13, 16-17=0/13, 15-16=0/13, 14-15=0/13, 13-14=0/13
WEBS 2-22=-101/0, 3-21=-108/0, 4-20=-106/0, 5-19=-107/0, 6-18=-107/0, 7-17=-107/0, 8-16=-107/0, 9-15=-105/0, 10-14=-114/0, 11-13=-76/0

NOTES

- All plates are 1.5x3 (I) 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).



May 28, 2025

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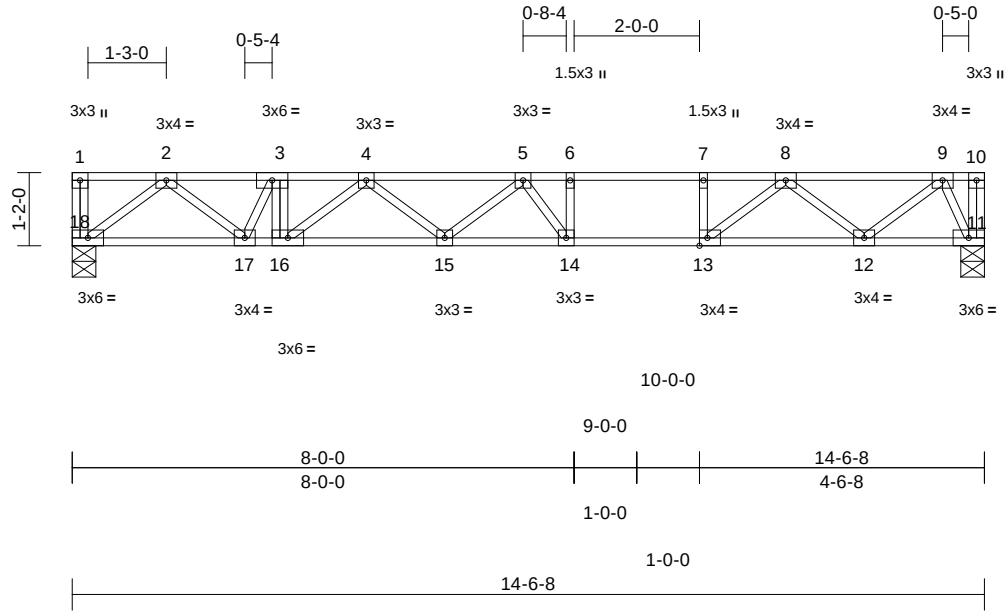
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F13	Floor	6	1	Job Reference (optional)

I73795570

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.20 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:15
ID:OLMv_xB3mhsqHi3dHtv?NfzewMQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:36.7

Plate Offsets (X, Y): [13:0-1-8,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	1.00	Vert(LL)	-0.18	14-15	>972	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.25	14-15	>678	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: 77 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)	Uniform Loads (lb/ft)
BOT CHORD	2x4 SP SS(flat)	Vert: 11-18=-8, 1-10=-80
WEBS	2x4 SP No.3(flat)	Concentrated Loads (lb)
		Vert: 3=-51

BRACING

TOP CHORD	Structural wood sheathing directly applied, 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=640 (LC 1), 18=668 (LC 1)

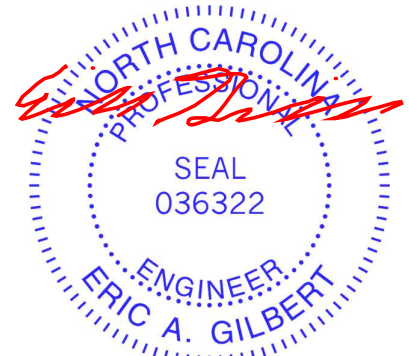
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-18=-40/0, 10-11=0/62, 1-2=0/0, 2-3=-1380/0, 3-4=-1616/0, 4-5=-2162/0, 5-6=-2046/0, 6-7=-2046/0, 7-8=-2046/0, 8-9=-912/0, 9-10=0/0
BOT CHORD	17-18=0/816, 16-17=0/1616, 15-16=0/2002, 14-15=0/2225, 13-14=0/2046, 12-13=0/1506, 11-12=0/355
WEBS	6-14=-79/196, 7-13=-319/0, 2-18=-1023/0, 2-17=0/734, 8-13=0/773, 8-12=-774/0, 9-12=0/725, 9-11=-770/0, 3-16=0/276, 3-17=-497/0, 4-16=-485/0, 4-15=0/208, 5-15=-150/3, 5-14=-420/88

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.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00



May 28, 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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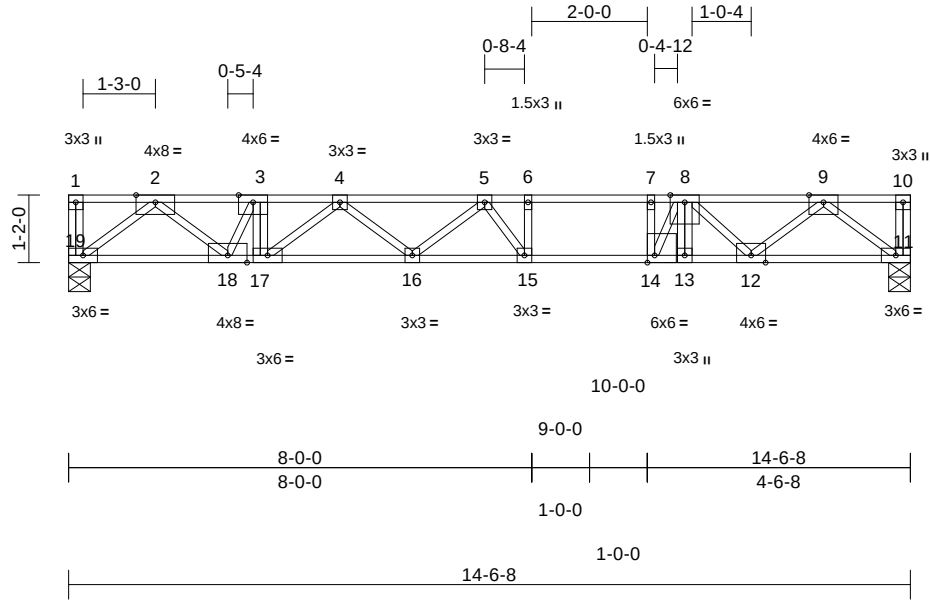
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F20	Floor	1	1	Job Reference (optional)

I73795571

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.20 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:16
ID:9lgnrVfaKZoiW9dUlo0?hzzewFM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.8

Plate Offsets (X, Y): [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	0.81	Vert(LL)	-0.14	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.82	Vert(CT)	-0.33	15-16	>523	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.05	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)	Uniform Loads (lb/ft)
BOT CHORD	2x4 SP SS(flat)	Vert: 11-19=-8, 1-10=-80
WEBS	2x4 SP No.3(flat)	Concentrated Loads (lb)
		Vert: 3=-701, 8=-387

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, 19=0-4-8
	Max Grav 11=1070 (LC 1), 19=1275 (LC 1)

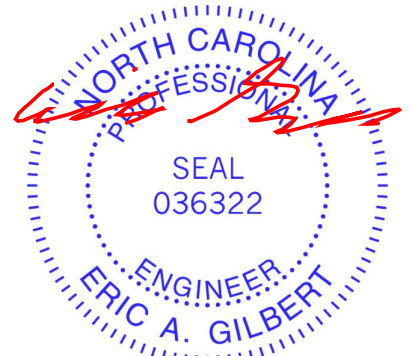
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-19=-42/0, 10-11=-33/0, 1-2=0/0, 2-3=-2899/0, 3-4=-3458/0, 4-5=-3904/0, 5-6=-3683/0, 6-7=-3683/0, 7-8=-3683/0, 8-9=-2372/0, 9-10=0/0
BOT CHORD	18-19=0/1612, 17-18=0/3458, 16-17=0/3793, 15-16=0/3914, 14-15=0/3683, 13-14=0/3245, 12-13=0/3248, 11-12=0/1358
WEBS	6-15=-19/252, 7-14=-533/0, 2-19=-2023/0, 2-18=0/1675, 3-17=0/227, 8-13=-289/0, 8-14=0/1063, 9-11=-1704/0, 9-12=0/1320, 4-17=-420/0, 4-16=0/146, 5-16=-70/67, 5-15=-506/0, 3-18=-1175/0, 8-12=-1189/0

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.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00



May 28,2025

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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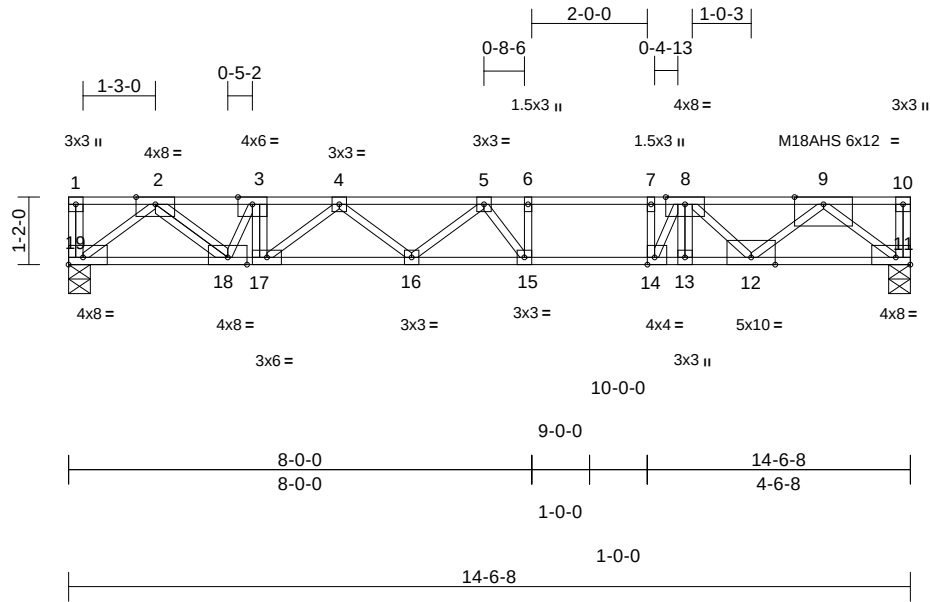
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F18	Floor	2	1	Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:16
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Page: 1



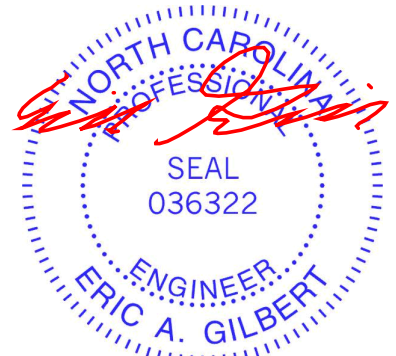
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Plate Offsets (X, Y): [11:Edge,0-1-8], [14:0-1-8,Edge], [19:Edge,0-1-8]									
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.14 15-16	>999	480
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.37 15-16	>460	360
BCLL	0.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.08 11	n/a	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S					
								Weight: 82 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) *Except* 9-12:2x4 SP No.2 (flat)
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-3-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	
(size)	11=0-4-8, 19=0-4-8
Max Grav	11=1752 (LC 1), 19=1731 (LC 1)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-19=-50/0, 10-11=-36/0, 1-2=0/0, 2-3=-3941/0, 3-4=-4837/0, 4-5=-5643/0, 5-6=-5876/0, 6-7=-5876/0, 7-8=-5876/0, 8-9=-4082/0, 9-10=0/0
BOT CHORD	18-19=0/2288, 17-18=0/4837, 16-17=0/5364, 15-16=0/5876, 14-15=0/5876, 13-14=0/5693, 12-13=0/5694, 11-12=0/2252
WEBS	6-15=-235/38, 7-14=-297/27, 2-19=-2833/0, 2-18=0/2251, 3-17=0/389, 3-18=-1746/0, 8-13=-143/42, 8-14=-118/545, 9-11=-2825/0, 9-12=0/2383, 8-12=-2192/0, 4-17=-662/0, 4-16=0/363, 5-16=-357/0, 5-15=-110/376

- 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: 11-19=-8, 1-10=-80
Concentrated Loads (lb)
Vert: 3=-1005, 8=-1221



May 28,2025

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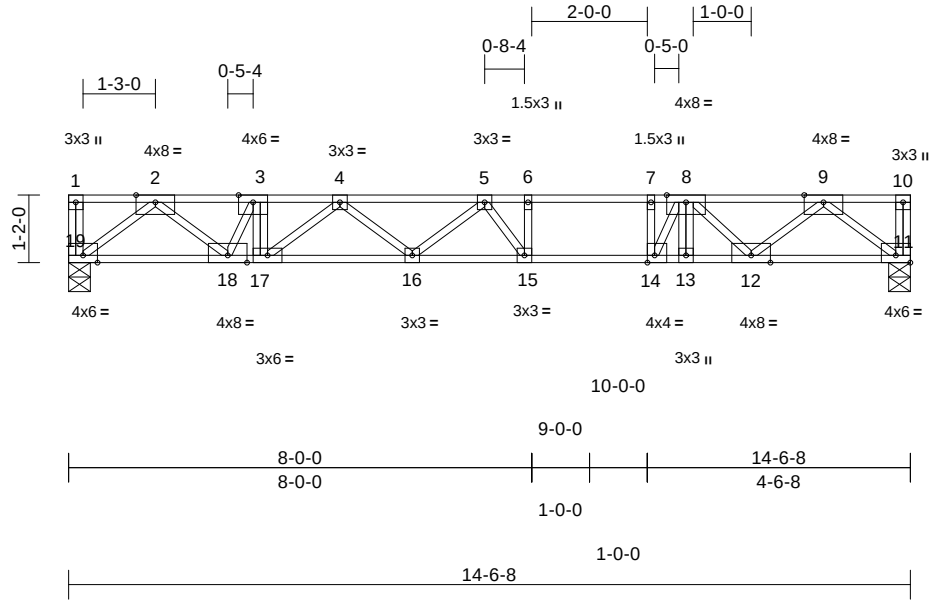
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F17	Floor	1	1	Job Reference (optional)

I73795573

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.20 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:16
ID:zIpeZ242xdQ8wBhV8VgWQZzewHO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.8

Plate Offsets (X, Y): [11:Edge,0-1-8], [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	0.66	Vert(LL)	-0.14	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.32	15-16	>537	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.06	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)	Uniform Loads (lb/ft)
BOT CHORD	2x4 SP SS(flat)	Vert: 11-19=-8, 1-10=-80
WEBS	2x4 SP No.3(flat)	Concentrated Loads (lb)
		Vert: 8=-806, 3=-662

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, 19=0-4-8
	Max Grav 11=1372 (LC 1), 19=1354 (LC 1)

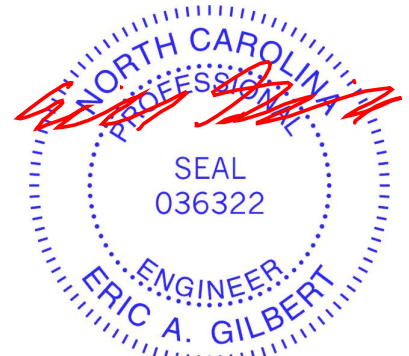
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-19=-42/0, 10-11=-35/0, 1-2=0/0, 2-3=-3096/0, 3-4=-3702/0, 4-5=-4425/0, 5-6=-4555/0, 6-7=-4555/0, 7-8=-4555/0, 8-9=-3129/0, 9-10=0/0
BOT CHORD	18-19=0/1716, 17-18=0/3702, 16-17=0/4185, 15-16=0/4607, 14-15=0/4555, 13-14=0/4314, 12-13=0/4315, 11-12=0/1752
WEBS	2-19=-2152/0, 2-18=0/1797, 6-15=-185/86, 7-14=-340/0, 3-17=0/356, 8-13=-166/21, 8-14=-8/648, 4-17=-607/0, 4-16=0/312, 5-16=-293/0, 5-15=-199/287, 3-18=-1274/0, 9-11=-2198/0, 9-12=0/1792, 8-12=-1625/0

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.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00



May 28,2025

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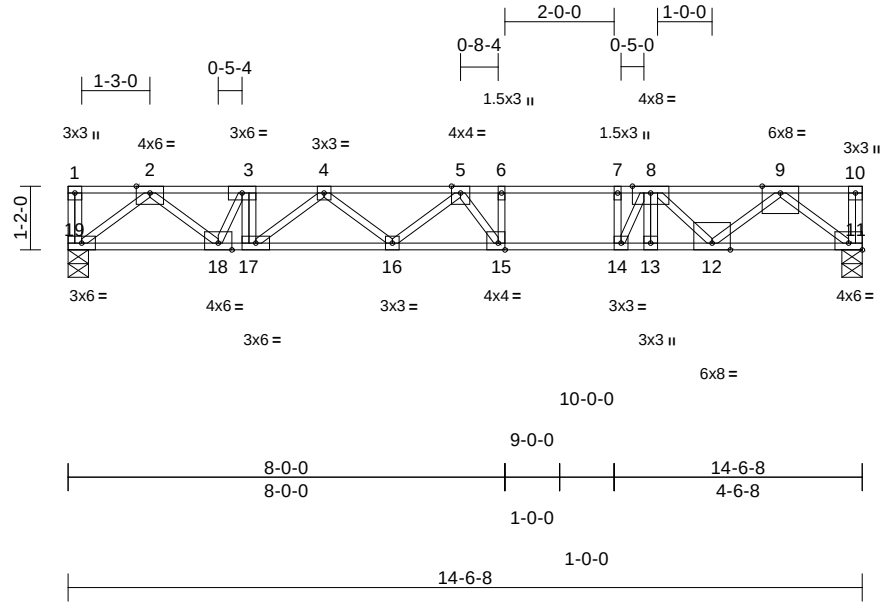
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F16	Floor	1	1	Job Reference (optional)

I73795574

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:16
ID:T7SZ6mp6DskqMIJN70JQovzewKK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:42.2

Plate Offsets (X, Y): [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	0.97	Vert(LL)	-0.14	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.25	14-15	>674	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.05	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)	Uniform Loads (lb/ft)
BOT CHORD	2x4 SP SS(flat)	Vert: 11-19=-8, 1-10=-80
WEBS	2x4 SP No.3(flat)	Concentrated Loads (lb)
		Vert: 8=-1097

BRACING

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

REACTIONS	(size)	11=0-4-8, 19=0-4-8
	Max Grav	11=1439 (LC 1), 19=916 (LC 1)

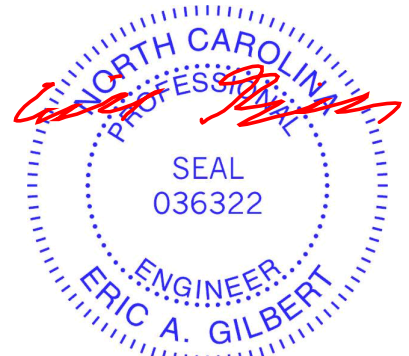
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-19=-41/0, 10-11=-37/0, 1-2=0/0, 2-3=-1999/0, 3-4=-2382/0, 4-5=-3625/0, 5-6=-4422/0, 6-7=-4422/0, 7-8=-4422/0, 8-9=-3299/0, 9-10=0/0
BOT CHORD	18-19=0/1140, 17-18=0/2382, 16-17=0/3143, 15-16=0/4134, 14-15=0/4422, 13-14=0/4579, 12-13=0/4578, 11-12=0/1836
WEBS	2-19=-1430/0, 2-18=0/1119, 6-15=-500/0, 7-14=0/323, 8-13=0/256, 3-17=0/603, 3-18=-806/0, 8-14=-791/0, 9-11=-2304/0, 9-12=0/1904, 4-17=-955/0, 4-16=0/627, 5-16=-719/0, 5-15=0/869, 8-12=-1751/0

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.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00



May 28, 2025

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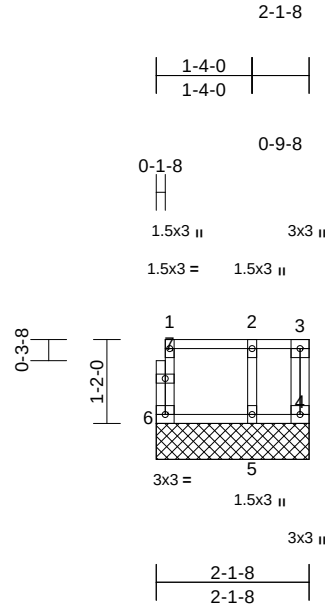
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1FGE9	Floor Supported Gable	1	1	Job Reference (optional)

I73795575

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:18
ID:UJIOJTaR3pKmbqBNdsGbk5zew57-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

Page: 1



Scale = 1:32

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999	244/190
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: 13 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=28 (LC 1), 5=84 (LC 1), 6=48
 (LC 1)

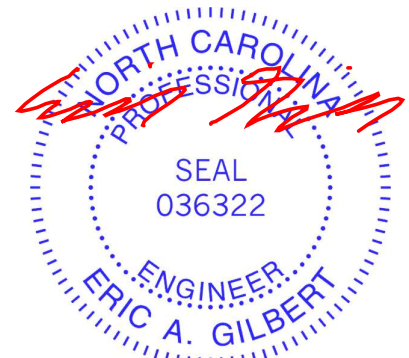
FORCES (lb) - Maximum Compression/Maximum
 Tension

TOP CHORD 1-6=-44/0, 3-4=-22/0, 1-2=-7/0, 2-3=-7/0
 BOT CHORD 5-6=0/7, 4-5=0/7
 WEBS 2-5=-80/0

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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 28, 2025

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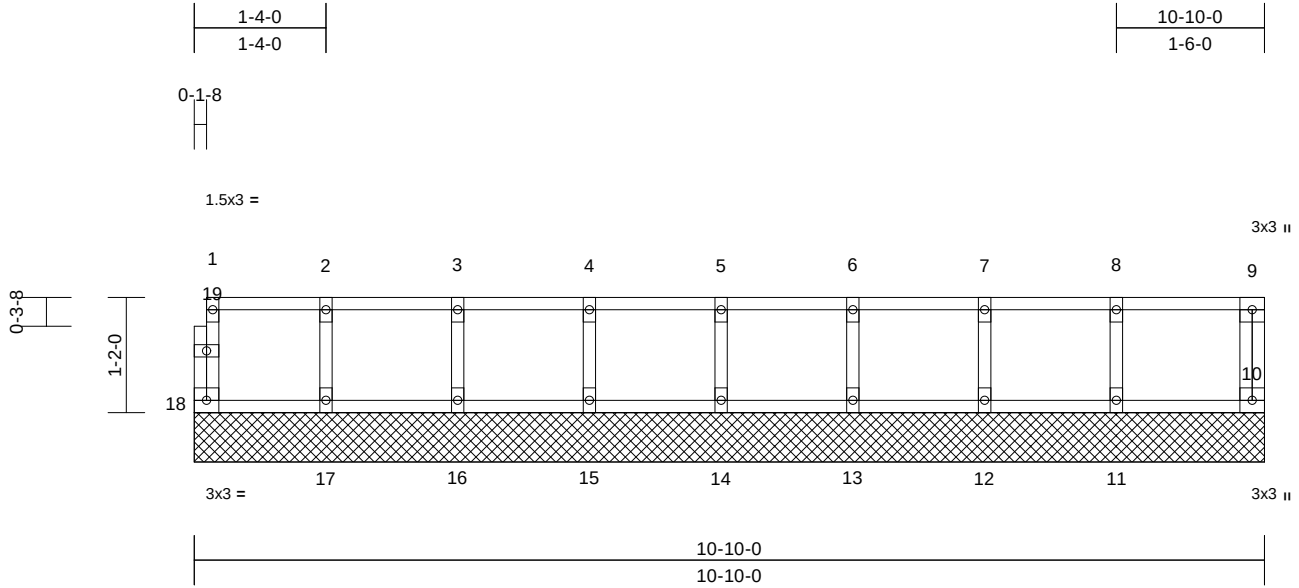
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1FGE8	Floor Supported Gable	1	1	173795576
Job Reference (optional)					

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:18
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Page: 1



Scale = 1:23.3

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
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999	244/190
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)

- 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

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

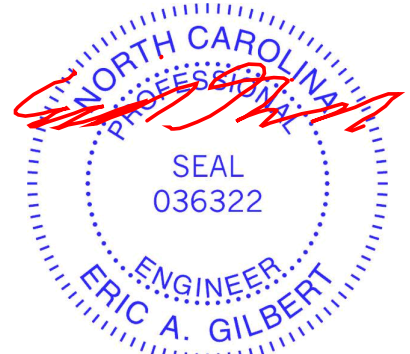
FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-18=-53/0, 9-10=-66/0, 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	2-17=-128/0, 3-16=-135/0, 4-15=-133/0, 5-14=-133/0, 6-13=-134/0, 7-12=-132/0, 8-11=-139/0

NOTES

- All plates are 1.5x3 (II) 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.



May 28, 2025

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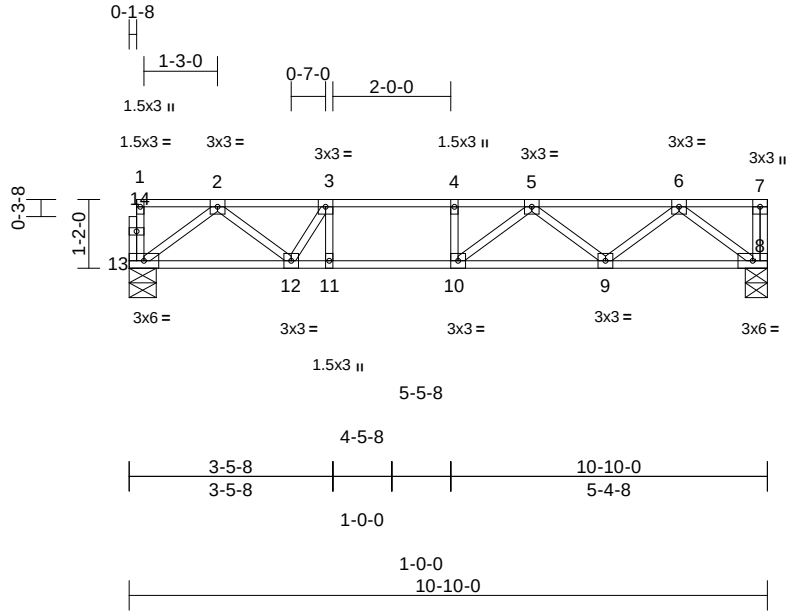
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795577
	1F21	Floor	5	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:16
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Page: 1



Scale = 1:39.1

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	0.61	Vert(LL)	-0.11	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.15	9-10	>844	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	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 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.

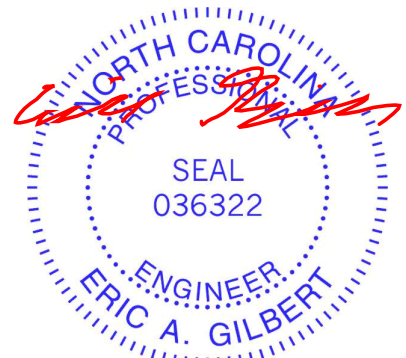
REACTIONS (size) 8=0-4-8, 13=0-5-8
Max Grav 8=582 (LC 1), 13=576 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-13=-61/0, 7-8=-41/0, 1-2=-4/0, 2-3=-1118/0, 3-4=-1402/0, 4-5=-1402/0, 5-6=-1083/0, 6-7=0/0
BOT CHORD 12-13=0/665, 11-12=0/1402, 10-11=0/1402, 9-10=0/1395, 8-9=0/706
WEBS 3-11=0/236, 4-10=-128/0, 2-13=-830/0, 2-12=0/589, 3-12=-584/0, 6-8=-886/0, 6-9=0/491, 5-9=-406/0, 5-10=-104/246

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



May 28, 2025

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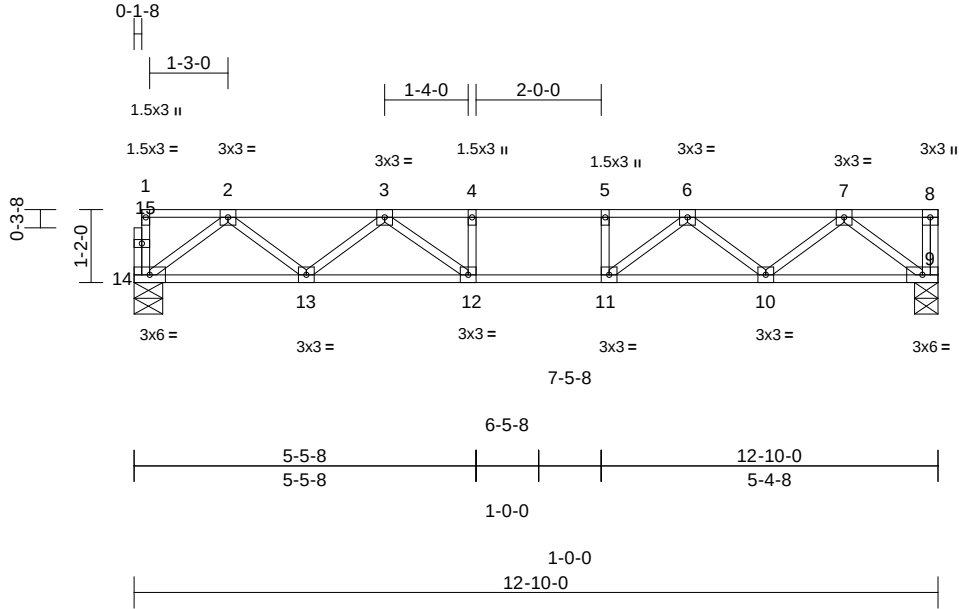
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795578
	1F22	Floor	6	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:16
ID:uk76KUSUwYvwkfnunpfAYhzewBI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f

Page: 1



Scale = 1:36.8												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.11	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.14	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	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.

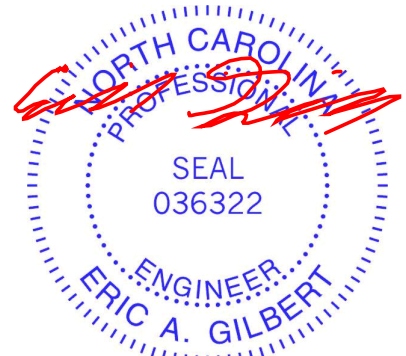
REACTIONS (size) 9=0-4-8, 14=0-5-8
Max Grav 9=692 (LC 1), 14=686 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-36/0, 8-9=-40/0, 1-2=-2/0, 2-3=-1346/0, 3-4=-2049/0, 4-5=-2049/0, 5-6=-2049/0, 6-7=-1345/0, 7-8=0/0
BOT CHORD 13-14=0/848, 12-13=0/1807, 11-12=0/2049, 10-11=0/1807, 9-10=0/848
WEBS 4-12=-229/0, 5-11=-241/0, 2-14=-1061/0, 2-13=0/649, 3-13=-601/0, 7-9=-1064/0, 7-10=0/646, 6-10=-603/0, 6-11=0/512, 3-12=0/506

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



May 28, 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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TRENCO
A MiTek Affiliate

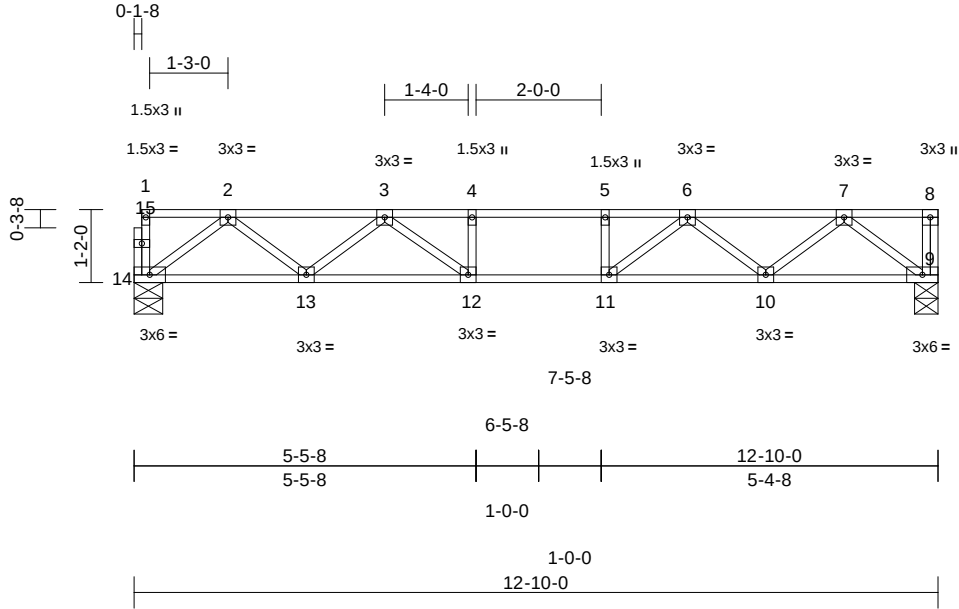
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795579
	1F23	Floor	1	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:16
ID:vMlgkMhTvumSzLaUmEU4hCzewA9-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:36.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.11	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	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)

Concentrated Loads (lb)
Vert: 8=-320

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=0-4-8, 14=0-5-8
Max Grav 9=1012 (LC 1), 14=686 (LC 1)

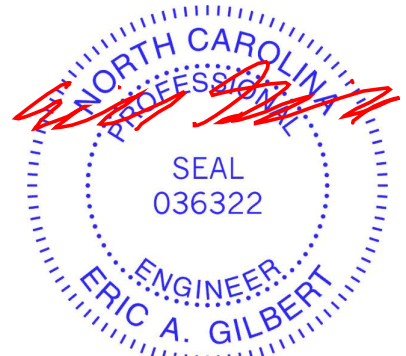
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-36/0, 8-9=-359/0, 1-2=-2/0, 2-3=-1346/0, 3-4=-2050/0, 4-5=-2050/0, 5-6=-2050/0, 6-7=-1345/0, 7-8=0/0
BOT CHORD 13-14=0/848, 12-13=0/1807, 11-12=0/2050, 10-11=0/1807, 9-10=0/848
WEBS 4-12=-229/0, 5-11=-241/0, 2-14=-1061/0, 2-13=0/649, 3-13=-601/0, 3-12=0/506, 7-9=-1064/0, 7-10=0/646, 6-10=-602/0, 6-11=0/512

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

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 9-14=-10, 1-8=-100



May 28,2025

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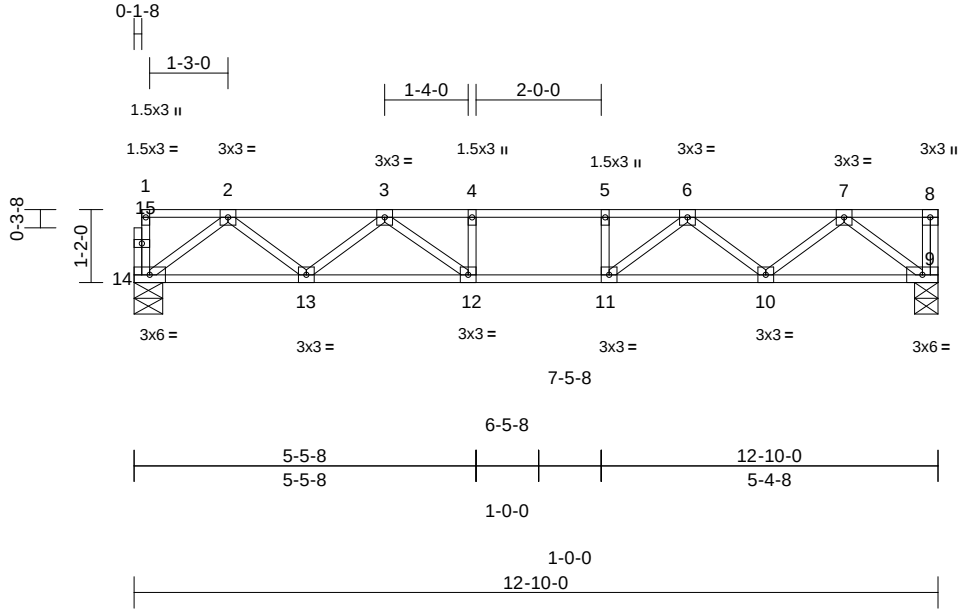
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795580
	1F24	Floor	1	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:16
ID:50WgAlEhliQ3sFW8vBoe0hzew9S-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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	0.58	Vert(LL)	-0.11	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	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)

Concentrated Loads (lb)
Vert: 8=-320

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=0-4-8, 14=0-5-8
Max Grav 9=1012 (LC 1), 14=686 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

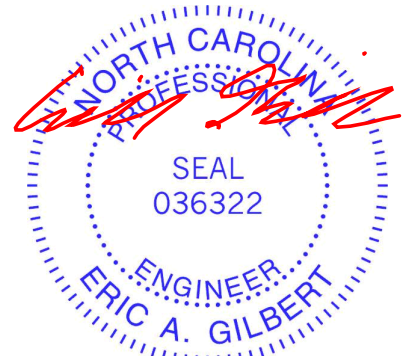
TOP CHORD 1-14=-36/0, 8-9=-359/0, 1-2=-2/0, 2-3=-1346/0, 3-4=-2050/0, 4-5=-2050/0, 5-6=-2050/0, 6-7=-1345/0, 7-8=0/0
BOT CHORD 13-14=0/848, 12-13=0/1807, 11-12=0/2050, 10-11=0/1807, 9-10=0/848
WEBS 4-12=-229/0, 5-11=-241/0, 2-14=-1061/0, 2-13=0/649, 3-13=-601/0, 7-9=-1064/0, 7-10=0/646, 6-10=-602/0, 6-11=0/512, 3-12=0/506

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

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 9-14=-10, 1-8=-100



May 28, 2025

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Edenton, NC 27932

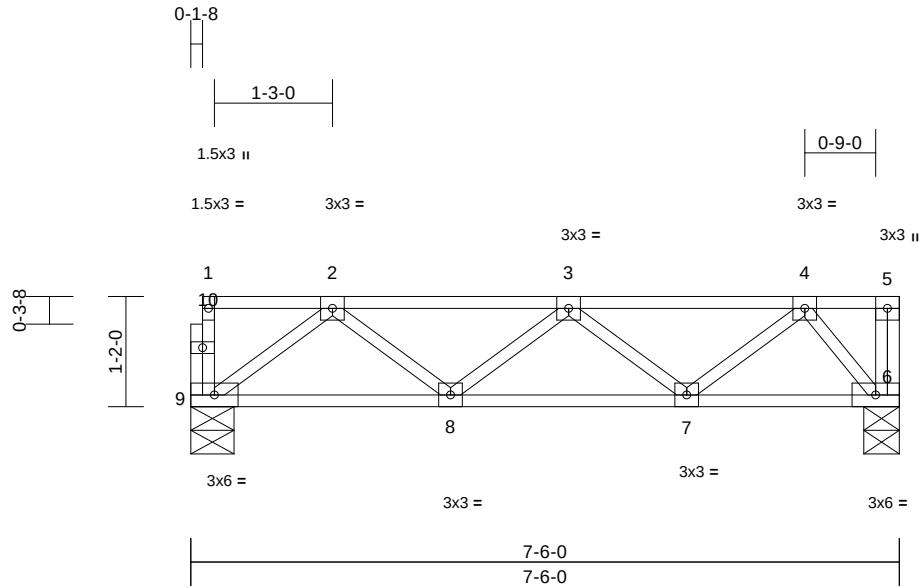
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F8	Floor	6	1	Job Reference (optional)

I73795581

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:15
ID:N51nABj5p09npLTPK1E95ezewPc-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:24.4

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	0.29	Vert(LL)	-0.01	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.02	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 41 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) 6=0-4-8, 9=0-5-8
Max Grav 6=399 (LC 1), 9=393 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-9=-37/0, 5-6=-1/0, 1-2=-2/0, 2-3=-615/0,
3-4=-548/0, 4-5=0/0
BOT CHORD 8-9=0/456, 7-8=0/740, 6-7=0/326
WEBS 2-9=-570/0, 2-8=0/207, 3-8=-163/0,
3-7=-251/0, 4-7=0/288, 4-6=-507/0

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) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



May 28, 2025

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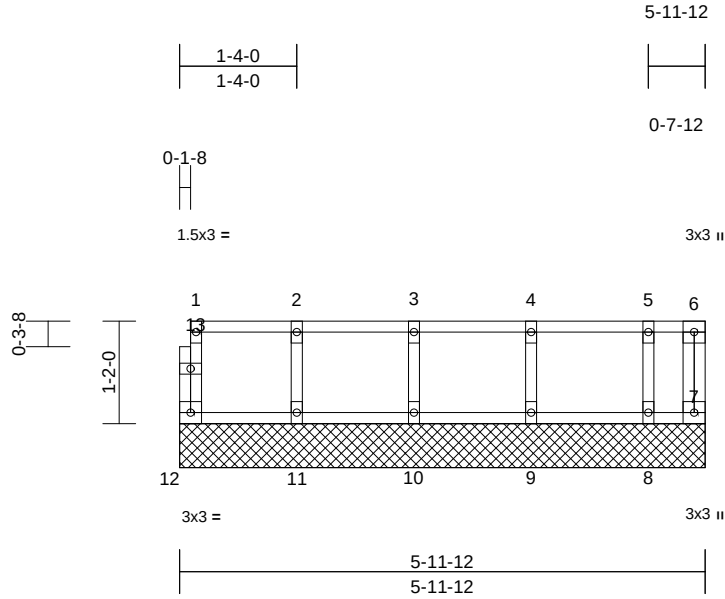
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1FGE5	Floor Supported Gable	1	1	Job Reference (optional)
					I73795582

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.20 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:18
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Page: 1



Scale = 1:26.2

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	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	7	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=21 (LC 1), 8=104 (LC 1), 9=153 (LC 1), 10=145 (LC 1), 11=147 (LC 1), 12=53 (LC 1)

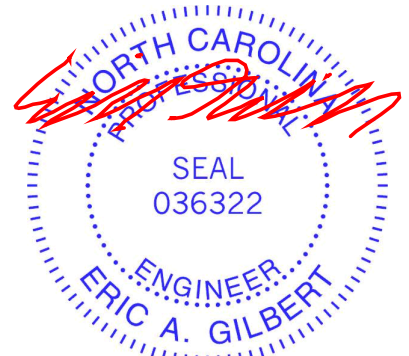
FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-12=-49/0, 6-7=-13/0, 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	2-11=-132/0, 3-10=-133/0, 4-9=-138/0, 5-8=-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



May 28, 2025

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A MiTek Affiliate

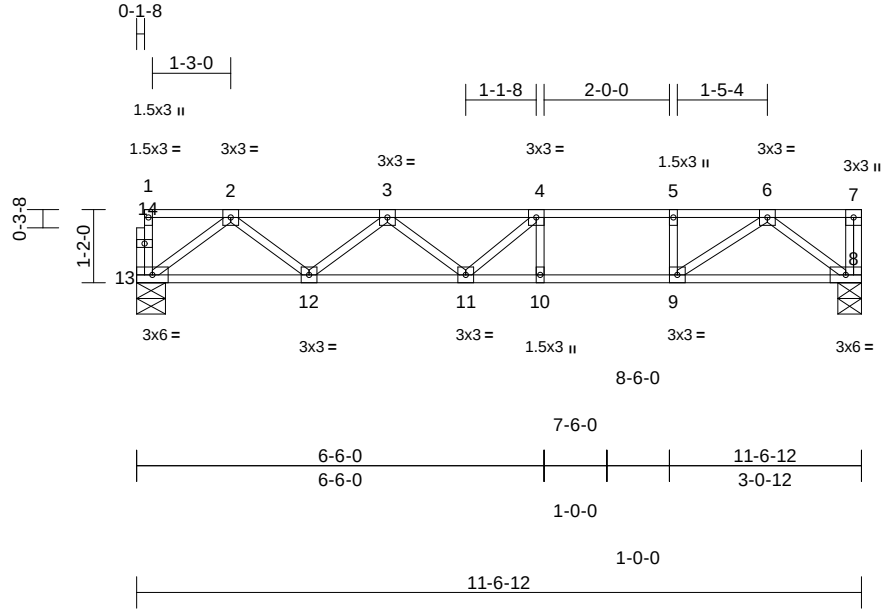
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795583
	1F7	Floor	8	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:15
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Page: 1



Scale = 1:36.8

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	0.61	Vert(LL)	-0.12	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.16	10-11	>829	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	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=0-4-8, 13=0-5-8
Max Grav 8=415 (LC 1), 13=411 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-13=-29/0, 7-8=-52/0, 1-2=-2/0, 2-3=-785/0, 3-4=-1086/0, 4-5=-997/0, 5-6=-997/0, 6-7=0/0
BOT CHORD 12-13=0/494, 11-12=0/1064, 10-11=0/997, 9-10=0/997, 8-9=0/493
WEBS 4-10=-156/0, 5-9=-248/0, 2-13=-617/0, 2-12=0/380, 3-12=-362/0, 3-11=-8/119, 4-11=-69/174, 6-8=-619/0, 6-9=0/614

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



May 28, 2025

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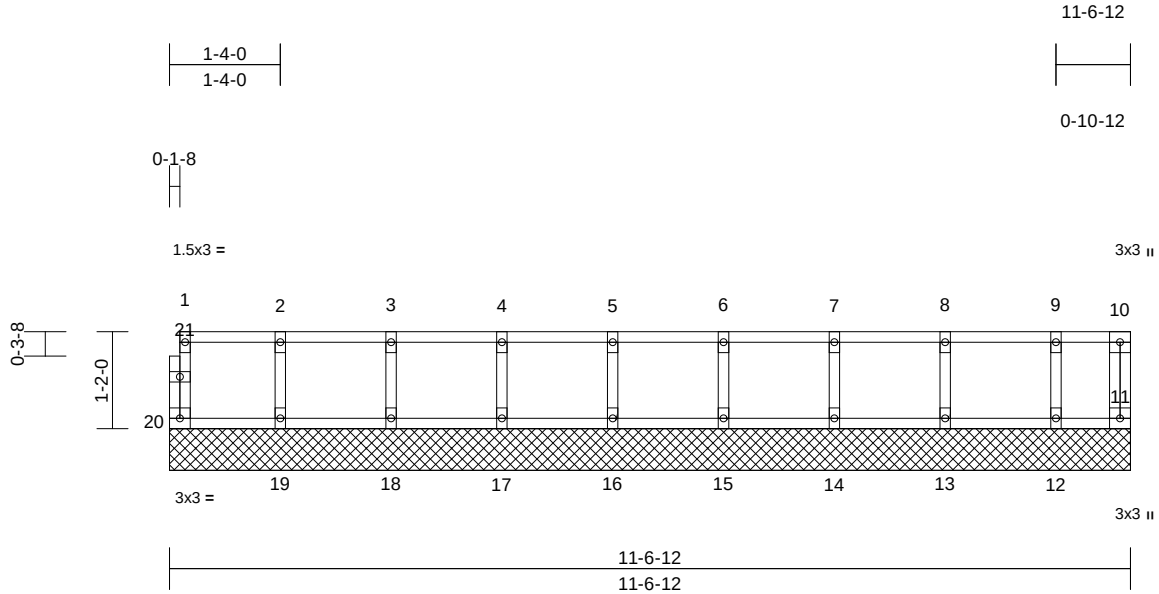
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795584
	1FGE4	Floor Supported Gable	1	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:18
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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	0.06	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	11	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.

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) 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=30 (LC 1), 12=93 (LC 1),
13=122 (LC 1), 14=116 (LC 1),
15=118 (LC 1), 16=117 (LC 1),
17=117 (LC 1), 18=117 (LC 1),
19=118 (LC 1), 20=42 (LC 1)

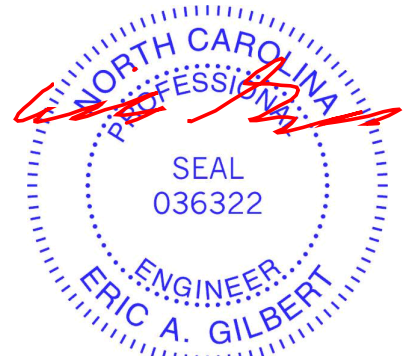
FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-20=-39/0, 10-11=-24/0, 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 2-19=-106/0, 3-18=-107/0, 4-17=-107/0,
5-16=-107/0, 6-15=-107/0, 7-14=-106/0,
8-13=-110/0, 9-12=-88/0

NOTES

- 1) All plates are 1.5x3 (I) 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.



May 28, 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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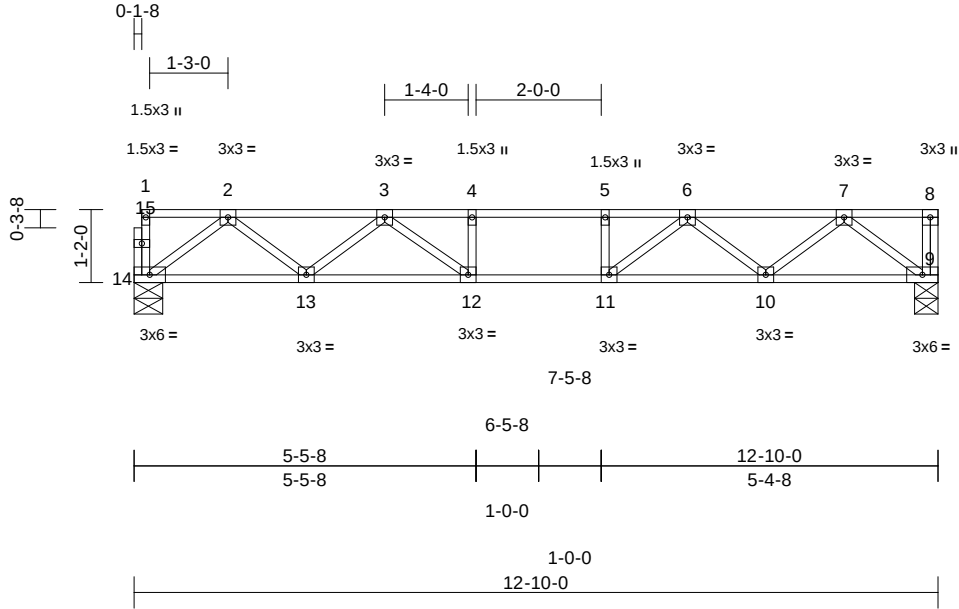
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795586
	1F25	Floor	1	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:17
ID:sNa_ZwxiPrshRjXUs4LTv7zew8X-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?

Page: 1



Scale = 1:36.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.11	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	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)

Concentrated Loads (lb)
Vert: 8=-320

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=0-4-8, 14=0-5-8
Max Grav 9=1012 (LC 1), 14=686 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-36/0, 8-9=-359/0, 1-2=-2/0, 2-3=-1346/0, 3-4=-2050/0, 4-5=-2050/0, 5-6=-2050/0, 6-7=-1345/0, 7-8=0/0
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=-229/0, 5-11=-241/0, 2-14=-1061/0, 2-13=0/649, 3-13=-601/0, 7-9=-1064/0, 7-10=0/646, 6-10=-602/0, 6-11=0/512, 3-12=0/506

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

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 9-14=-10, 1-8=-100



May 28, 2025

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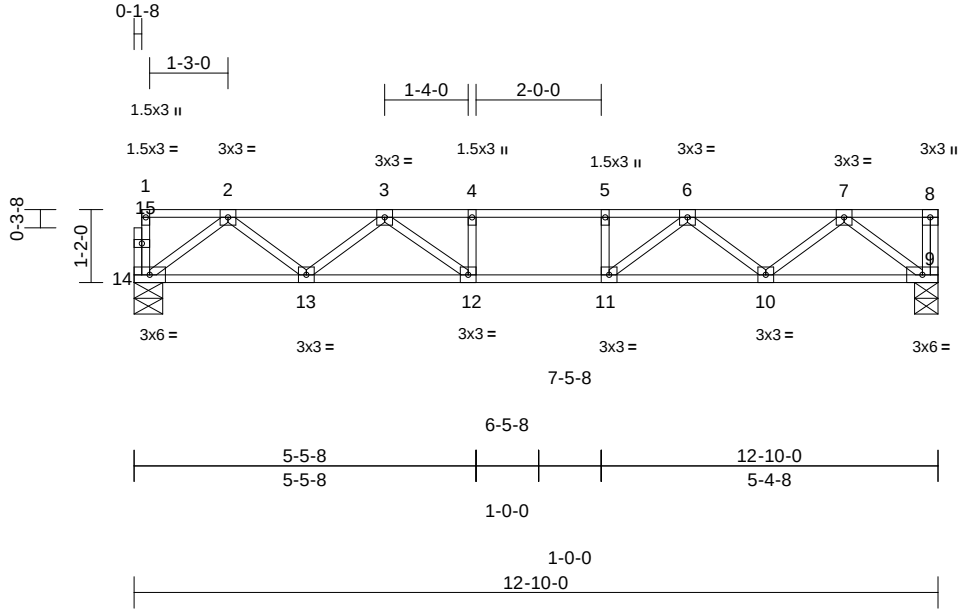
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F19	Floor	1	1	173795587
Job Reference (optional)					

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:16
ID:6wCg9RgKHGQBey60NhQYKnzew7b-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:36.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.11	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	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)

Concentrated Loads (lb)
Vert: 8=-377

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=0-4-8, 14=0-5-8
Max Grav 9=1069 (LC 1), 14=686 (LC 1)

FORCES

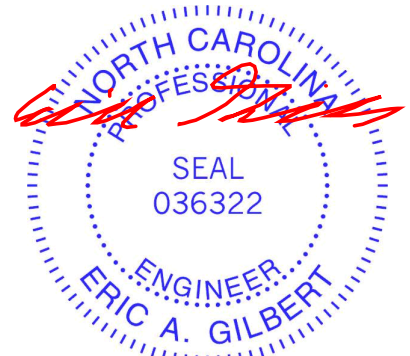
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-14=-36/0, 8-9=-416/0, 1-2=-2/0, 2-3=-1346/0, 3-4=-2050/0, 4-5=-2050/0, 5-6=-2050/0, 6-7=-1345/0, 7-8=0/0
BOT CHORD 13-14=0/848, 12-13=0/1807, 11-12=0/2050, 10-11=0/1807, 9-10=0/848
WEBS 4-12=-229/0, 5-11=-241/0, 2-14=-1061/0, 2-13=0/649, 3-13=-601/0, 3-12=0/506, 7-9=-1064/0, 7-10=0/646, 6-10=-602/0, 6-11=0/512

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)

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 9-14=-10, 1-8=-100



May 28, 2025

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818 Soundside Road
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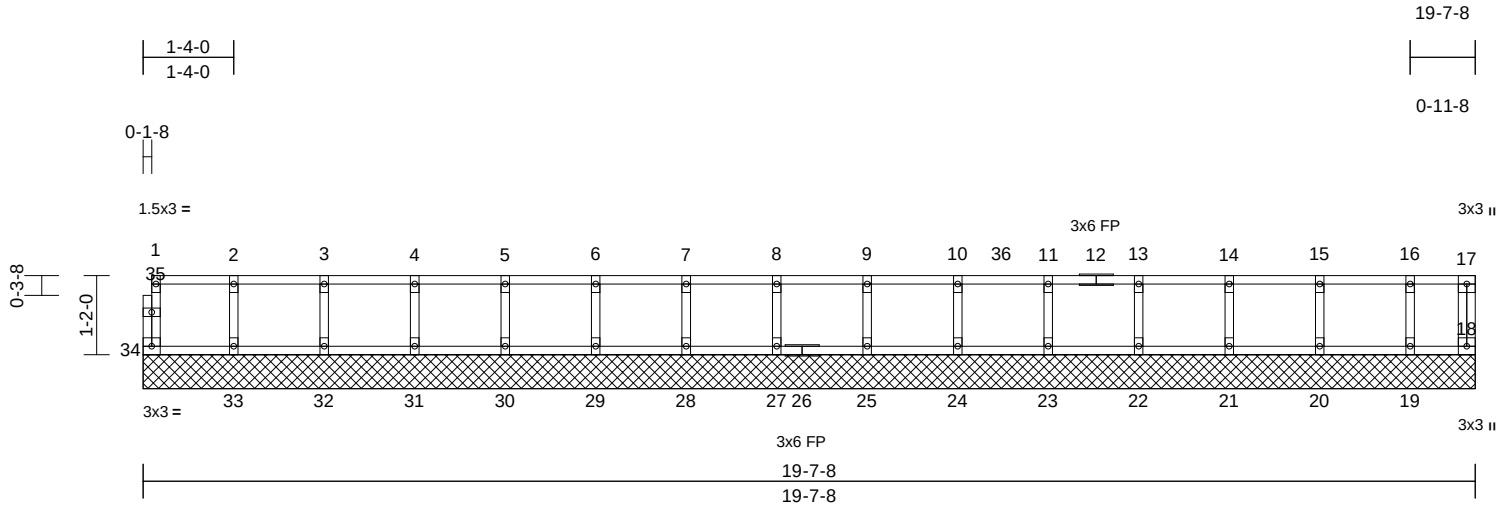
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1FGE6	Floor Supported Gable	1	1	Job Reference (optional)

173795588

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:18
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Page: 1



Scale = 1:33.9

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	0.32	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horiz(TL)	0.00	18	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, 27=19-7-8, 28=19-7-8, 29=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=171 (LC 1), 19=122 (LC 1), 20=150 (LC 1), 21=151 (LC 1), 22=125 (LC 1), 23=250 (LC 1), 24=257 (LC 1), 25=124 (LC 1), 27=152 (LC 1), 28=145 (LC 1), 29=147 (LC 1), 30=147 (LC 1), 31=147 (LC 1), 32=147 (LC 1), 33=147 (LC 1), 34=53 (LC 1)

FORCES

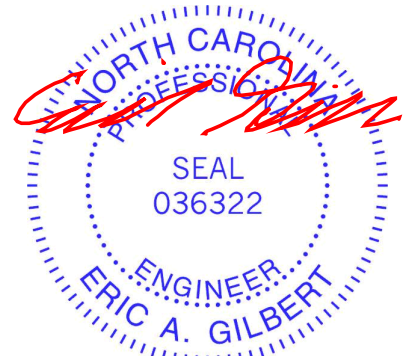
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-34=-49/0, 17-18=-164/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0, 8-9=-7/0, 9-10=-7/0, 10-11=-7/0, 11-13=-7/0, 13-14=-7/0, 14-15=-7/0, 15-16=-7/0, 16-17=-7/0
BOT CHORD	33-34=0/7, 32-33=0/7, 31-32=0/7, 30-31=0/7, 29-30=0/7, 28-29=0/7, 27-28=0/7, 25-27=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	2-33=-132/0, 3-32=-134/0, 4-31=-133/0, 5-30=-133/0, 6-29=-134/0, 7-28=-132/0, 8-27=-139/0, 9-25=-111/0, 10-24=-244/0, 11-23=-237/0, 13-22=-112/0, 14-21=-138/0, 15-20=-136/0, 16-19=-114/0

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

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 18-34=-10, 1-17=-100
Concentrated Loads (lb)
Vert: 17=-131, 36=-179



May 28, 2025

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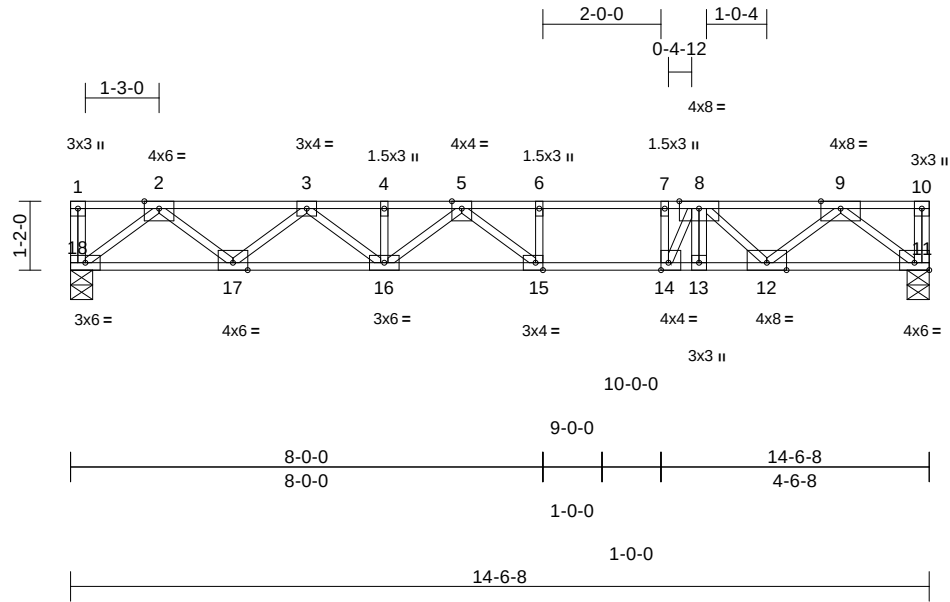
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F15	Floor	1	1	Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.20 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:16
ID:L.Y3x63qJHzXJ8rdptVMQ0qzewLb-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:39

Plate Offsets (X, Y): [11:Edge,0-1-8], [14:0-1-8,Edge], [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	0.90	Vert(LL)	-0.15	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.24	14-15	>708	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.86	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD	2x4 SP SS(flat)	Uniform Loads (lb/ft)
BOT CHORD	2x4 SP SS(flat)	Vert: 11-18=-8, 1-10=-80
WEBS	2x4 SP No.3(flat)	Concentrated Loads (lb)
		Vert: 8=-1007

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-8-3 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=1371 (LC 1), 18=894 (LC 1)

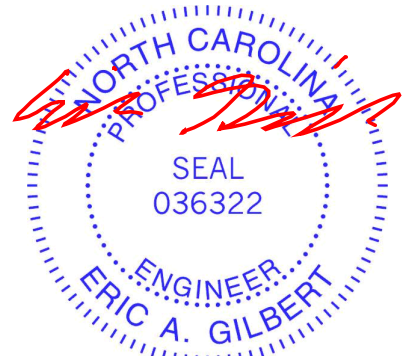
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-18=-32/0, 10-11=-36/0, 1-2=0/0, 2-3=-1932/0, 3-4=-3300/0, 4-5=-3300/0, 5-6=-4232/0, 6-7=-4232/0, 7-8=-4232/0, 8-9=-3127/0, 9-10=0/0
BOT CHORD	17-18=0/1126, 16-17=0/2703, 15-16=0/3781, 14-15=0/4232, 13-14=0/4356, 12-13=0/4355, 11-12=0/1747
WEBS	6-15=-377/0, 7-14=-19/307, 2-18=-1412/0, 2-17=0/1050, 3-17=-1004/0, 3-16=0/762, 4-16=-98/0, 5-16=-634/0, 5-15=0/894, 9-11=-2192/0, 9-12=0/1796, 8-13=0/259, 8-12=-1666/0, 8-14=-761/0

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



May 28,2025

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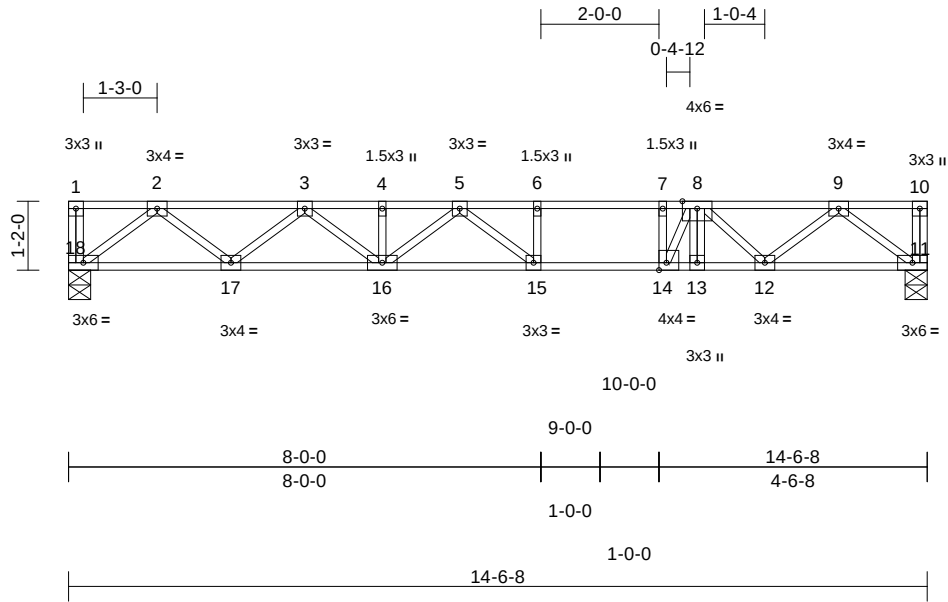
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F14	Floor	1	1	Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.20 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:15
ID:6XV6eAW?P_G?1rdpM2uKzLzewM?-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39

Plate Offsets (X, Y): [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)	-0.17	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.23	15-16	>742	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)	Uniform Loads (lb/ft)
BOT CHORD	2x4 SP SS(flat)	Vert: 11-18=-8, 1-10=-80
WEBS	2x4 SP No.3(flat)	Concentrated Loads (lb)
		Vert: 8=-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, 18=0-4-8
	Max Grav 11=733 (LC 1), 18=666 (LC 1)

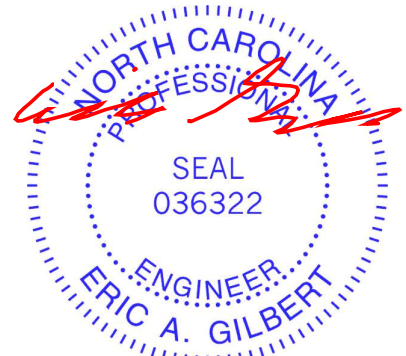
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-18=-31/0, 10-11=-33/0, 1-2=0/0, 2-3=-1355/0, 3-4=-2186/0, 4-5=-2186/0, 5-6=-2328/0, 6-7=-2328/0, 7-8=-2328/0, 8-9=-1527/0, 9-10=0/0
BOT CHORD	17-18=0/823, 16-17=0/1871, 15-16=0/2362, 14-15=0/2328, 13-14=0/2047, 12-13=0/2049, 11-12=0/912
WEBS	6-15=-132/2, 7-14=-359/0, 2-18=-1033/0, 2-17=0/693, 3-17=-671/0, 3-16=0/403, 4-16=-59/0, 5-16=-251/0, 5-15=-157/269, 9-11=-1145/0, 9-12=0/800, 8-12=-709/0, 8-13=-216/22, 8-14=0/752

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



May 28,2025

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.sbcacompnents.com)

ENGINEERING BY
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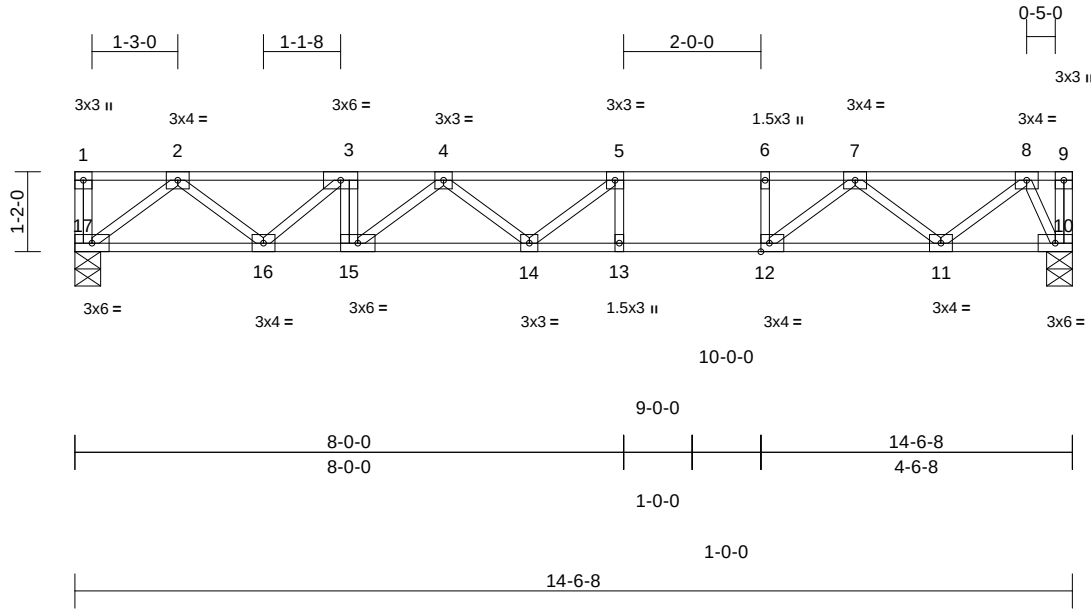
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F12	Floor	1	1	Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.20 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:15
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Page: 1



Scale = 1:33.6

Plate Offsets (X, Y): [12:0-1-8,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	1.00	Vert(LL)	-0.19	13-14	>920	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.28	13-14	>606	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 76 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)

Uniform Loads (lb/ft)
Vert: 10-17=-8, 1-9=-80
Concentrated Loads (lb)
Vert: 1=-173, 3=-102

BRACING

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

REACTIONS (size) 10=0-4-8, 17=0-4-8
Max Grav 10=656 (LC 1), 17=876 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-17=-202/0, 9-10=0/62, 1-2=0/0, 2-3=-1448/0, 3-4=-1989/0, 4-5=-2307/0, 5-6=-2144/0, 6-7=-2144/0, 7-8=-932/0, 8-9=0/0

BOT CHORD 16-17=0/877, 15-16=0/1989, 14-15=0/2292, 13-14=0/2144, 12-13=0/2144, 11-12=0/1562, 10-11=0/362

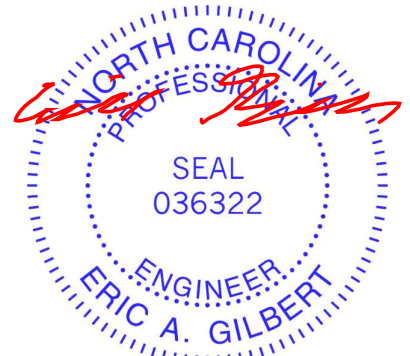
WEBS 5-13=-259/0, 6-12=-300/0, 2-17=-1100/0, 2-16=0/744, 7-12=0/827, 7-11=-820/0, 8-11=0/743, 8-10=-784/0, 3-15=0/223, 3-16=-703/0, 4-15=-380/0, 4-14=-57/145, 5-14=-76/332

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



May 28, 2025

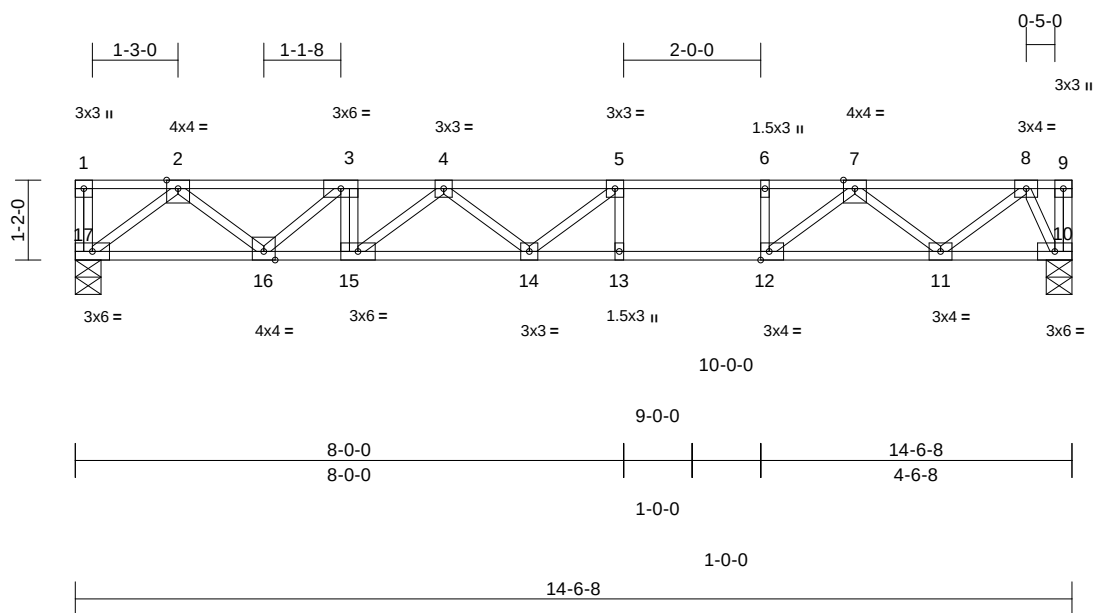
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	I73795592
	1F11	Floor	1	1	Job Reference (optional)	



Scale = 1:33.6

Plate Offsets (X, Y): [12:0-1-8,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	0.61	Vert(LL)	-0.17	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.29	13-14	>596	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 76 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)

Uniform Loads (lb/ft)
Vert: 10-17=-8, 1-9=-80
Concentrated Loads (lb)
Vert: 1=-342, 3=-239

BRACING

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

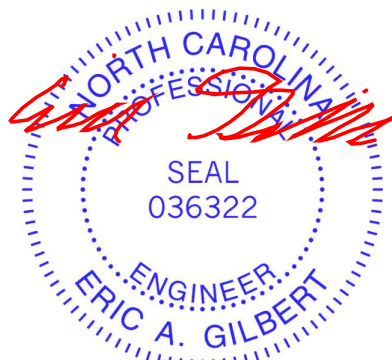
REACTIONS

(size) 10=0-4-8, 17=0-4-8
Max Grav 10=694 (LC 1), 17=1145 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-370/0, 9-10=0/67, 1-2=0/0, 2-3=-1699/0, 3-4=-2355/0, 4-5=-2577/0, 5-6=-2339/0, 6-7=-2339/0, 7-8=-992/0, 8-9=0/0
BOT CHORD 16-17=0/1009, 15-16=0/2355, 14-15=0/2623, 13-14=0/2339, 12-13=0/2339, 11-12=0/1665, 10-11=0/383
WEBS 5-13=-268/0, 6-12=-368/0, 2-17=-1266/0, 2-16=0/898, 7-12=0/945, 7-11=-876/0, 8-11=0/793, 8-10=-830/0, 3-15=0/193, 3-16=-854/0, 4-15=-335/0, 4-14=-138/75, 5-14=0/425

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



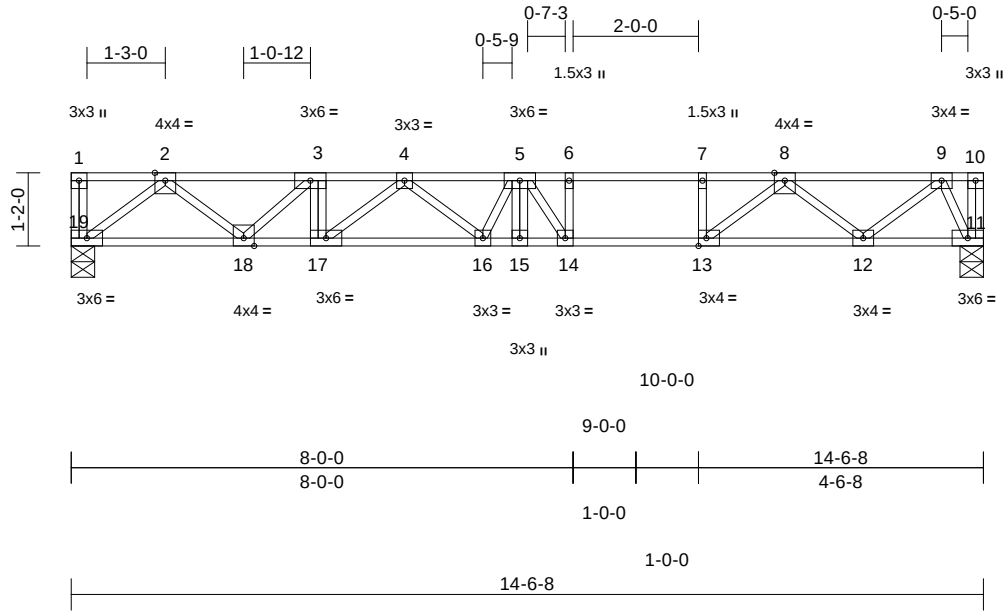
May 28,2025

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795593
	1F10	Floor	1	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:15
ID:C852PwEVNQv2JZXR9n_Tg?zewNf-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:36.7

Plate Offsets (X, Y): [13:0-1-8,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	0.62	Vert(LL)	-0.14	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.26	14-15	>669	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.03	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)	Uniform Loads (lb/ft)
BOT CHORD	2x4 SP SS(flat)	Vert: 11-19=-8, 1-10=-80
WEBS	2x4 SP No.3(flat)	Concentrated Loads (lb)
		Vert: 1=-325, 5=-28, 3=-223

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, 19=0-4-8
	Max Grav 11=702 (LC 1), 19=1132 (LC 1)

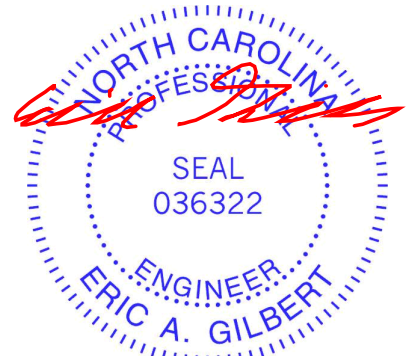
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-19=-357/0, 10-11=0/66, 1-2=0/0, 2-3=-1711/0, 3-4=-2358/0, 4-5=-2659/0, 5-6=-2353/0, 6-7=-2353/0, 7-8=-2353/0, 8-9=-1011/0, 9-10=0/0
BOT CHORD	18-19=0/1008, 17-18=0/2358, 16-17=0/2579, 15-16=0/2715, 14-15=0/2714, 13-14=0/2353, 12-13=0/1685, 11-12=0/388
WEBS	6-14=0/251, 7-13=-383/0, 2-19=-1265/0, 2-18=0/915, 8-13=0/934, 8-12=-877/0, 9-12=0/811, 9-11=-842/0, 3-17=0/179, 5-15=0/293, 5-14=-747/0, 3-18=-860/0, 4-17=-277/0, 4-16=0/132, 5-16=-113/0

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



May 28,2025

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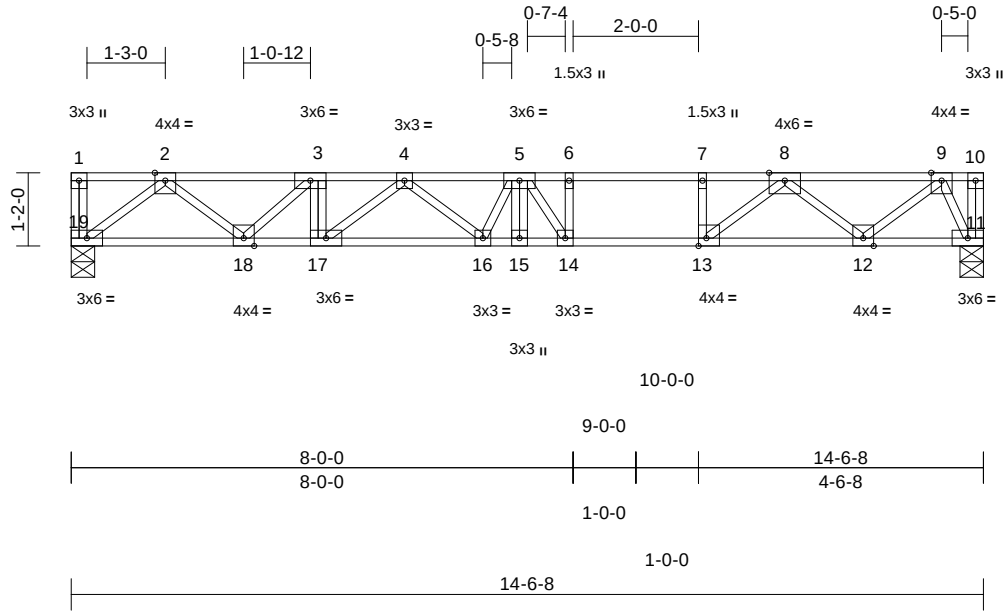
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	I73795594
	1F9	Floor	1	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:15
ID:5NHl6gshRC7lJyEgOUSRSGzewO7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f

Page: 1



Scale = 1:36.7

Plate Offsets (X, Y): [13:0-1-8,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	0.93	Vert(LL)	-0.14	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.33	14-15	>523	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.58	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 DSS(flat)
WEBS 2x4 SP No.3(flat)

Uniform Loads (lb/ft)
Vert: 11-19=-8, 1-10=-80
Concentrated Loads (lb)
Vert: 1=-267, 5=-341, 3=-47

BRACING

TOP CHORD Structural wood sheathing directly applied or
5-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 11=0-4-8, 19=0-4-8
Max Grav 11=809 (LC 1), 19=1104 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

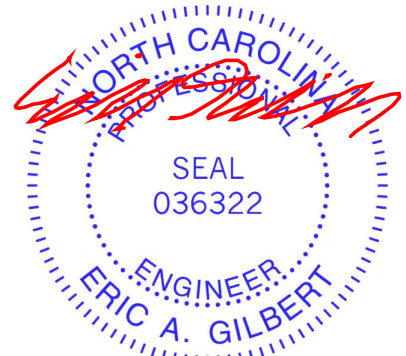
TOP CHORD 1-19=-299/0, 10-11=0/74, 1-2=0/0,
2-3=-1788/0, 3-4=-2472/0, 4-5=-3290/0,
5-6=-2896/0, 6-7=-2896/0, 7-8=-2896/0,
8-9=-1179/0, 9-10=0/0
BOT CHORD 18-19=0/1048, 17-18=0/2472, 16-17=0/2959,
15-16=0/3478, 14-15=0/3477, 13-14=0/2896,
12-13=0/2003, 11-12=0/444
WEBS 6-14=0/384, 7-13=-484/0, 2-19=-1315/0,
2-18=0/964, 8-13=0/1222, 8-12=-1072/0,
9-12=0/957, 9-11=-962/0, 3-17=0/383,
5-15=0/416, 5-14=-1108/0, 4-17=-611/0,
4-16=0/459, 5-16=-383/0, 3-18=-909/0

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



May 28,2025

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818 Soundside Road
Edenton, NC 27932

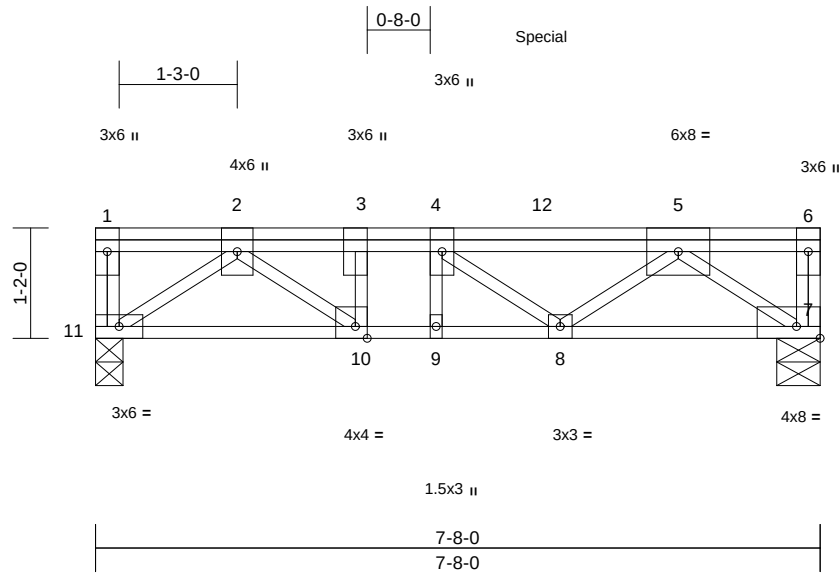
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2FG1	Floor Girder	1	1	Job Reference (optional)

I73795595

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.20 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:22
ID:4PDJKfXAMrBIVayDNBWPdAzvB4D-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:24.4

Plate Offsets (X, Y): [7:Edge,0-1-8], [10:0-1-8,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	1.00	Vert(LL)	0.06	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	0.08	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	-0.02	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 DSS(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat) *Except* 7-5:2x4 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 6-0-0 oc bracing.

REACTIONS (size) 7=0-5-8, 11=0-3-8
 Max Uplift 7=-830 (LC 7), 11=-494 (LC 10)
 Max Grav 7=114 (LC 1), 11=229 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-11=-48/62, 6-7=-386/0, 1-2=0/0,
 2-3=-129/1960, 3-4=-129/1960,
 4-5=-59/1858, 5-6=0/0

BOT CHORD 10-11=-649/232, 9-10=-1960/129,
 8-9=-1960/129, 7-8=-1727/0

WEBS 5-7=0/2121, 2-11=-285/796, 5-8=-217/105,
 2-10=-1734/0, 4-8=-101/127, 3-10=0/840,
 4-9=0/288

NOTES

- Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 830 lb uplift at joint 7 and 494 lb uplift at joint 11.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1994 lb up at 4-8-12 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: 7-11=-10, 1-6=-100
 Concentrated Loads (lb)
 Vert: 12=473 (B)



May 28, 2025

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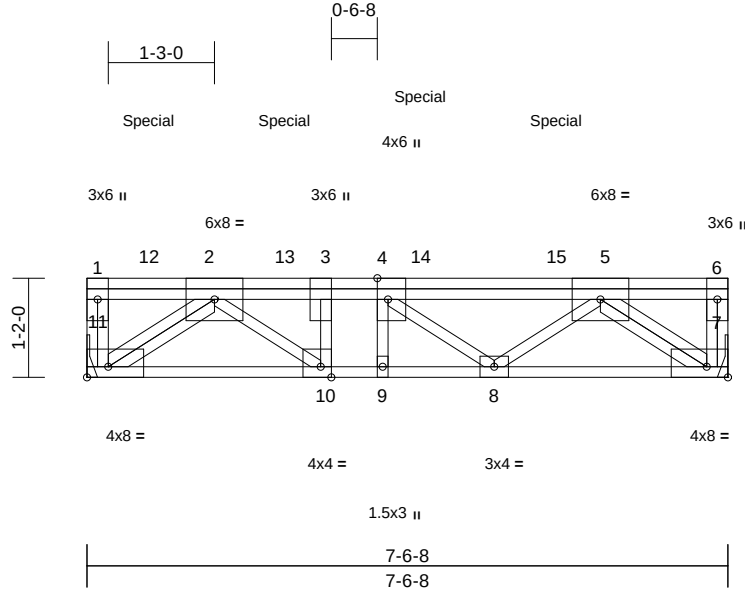
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2FG2	Floor Girder	1	1	Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:22
ID:ETT47Ea7qtSNE4lJ5y8bkjzvB81-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?I

Page: 1



Scale = 1:27.1											
Plate Offsets (X, Y): [4:0-3-0,Edge], [7:Edge,0-1-8], [10:0-1-8,Edge], [11:Edge,0-1-8]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL	40.0	Plate Grip DOL	1.00	TC	0.92	Vert(LL)	0.05	8-9	>999	480	GRIP
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	0.07	8-9	>999	360	MT20
BCLL	0.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	-0.02	7	n/a	n/a	244/190
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 56 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 7-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 7= Mechanical, 11= Mechanical
Max Uplift 7=-1894 (LC 7), 11=-1649 (LC 7)
Max Grav 7=-162 (LC 1), 11=-101 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-11=0/325, 6-7=0/609, 1-2=0/0, 2-3=0/2868, 3-4=0/2868, 4-5=0/2316, 5-6=0/0
BOT CHORD 10-11=-1802/0, 9-10=-2868/0, 8-9=-2868/0, 7-8=-1743/0
WEBS 5-7=0/2173, 2-11=0/2246, 5-8=-715/0, 2-10=-1309/0, 4-8=0/688, 3-10=0/679, 4-9=-34/192

- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 866 lb up at 0-8-13, 876 lb up at 2-4-0, 876 lb up at 3-11-3, and 876 lb up at 5-6-6, and 850 lb up at 7-5-0 on top chord. The design/selection of such connection device (s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 7-11=-10, 1-6=-100
Concentrated Loads (lb)
Vert: 6=209 (B), 12=212 (B), 13=214 (B), 14=214 (B), 15=214 (B)

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1649 lb uplift at joint 11 and 1894 lb uplift at joint 7.
 - 4) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
 - 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.

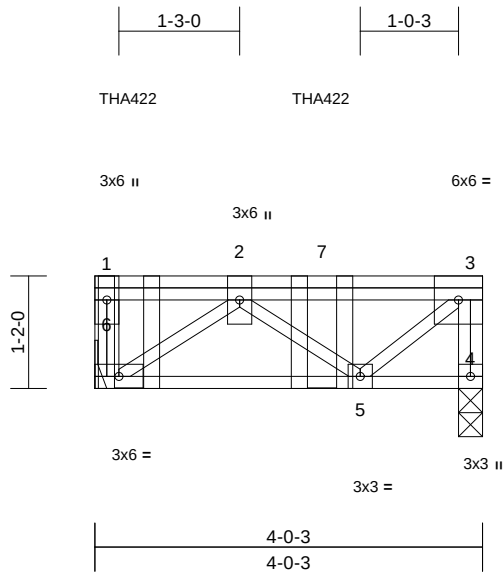


May 28,2025

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TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2FG3	Floor Girder	1	1	173795597
Job Reference (optional)					



Scale = 1:23.9

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	0.61	Vert(LL)	0.00	5-6	>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	0.22	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 29 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 4-0-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (size) 4=0-3-0, 6= Mechanical
Max Grav 4=547 (LC 1), 6=1054 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-540/0, 3-4=-544/0, 1-2=0/0, 2-3=-351/0
BOT CHORD 5-6=0/705, 4-5=0/0
WEBS 2-6=-866/0, 2-5=-450/0, 3-5=0/462

- NOTES**
1) Refer to girder(s) for truss to truss connections.
2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
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) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) 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.
5) Fill all nail holes where hanger is in contact with lumber.
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: 4-6=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 1=-612 (F), 7=-574 (F)



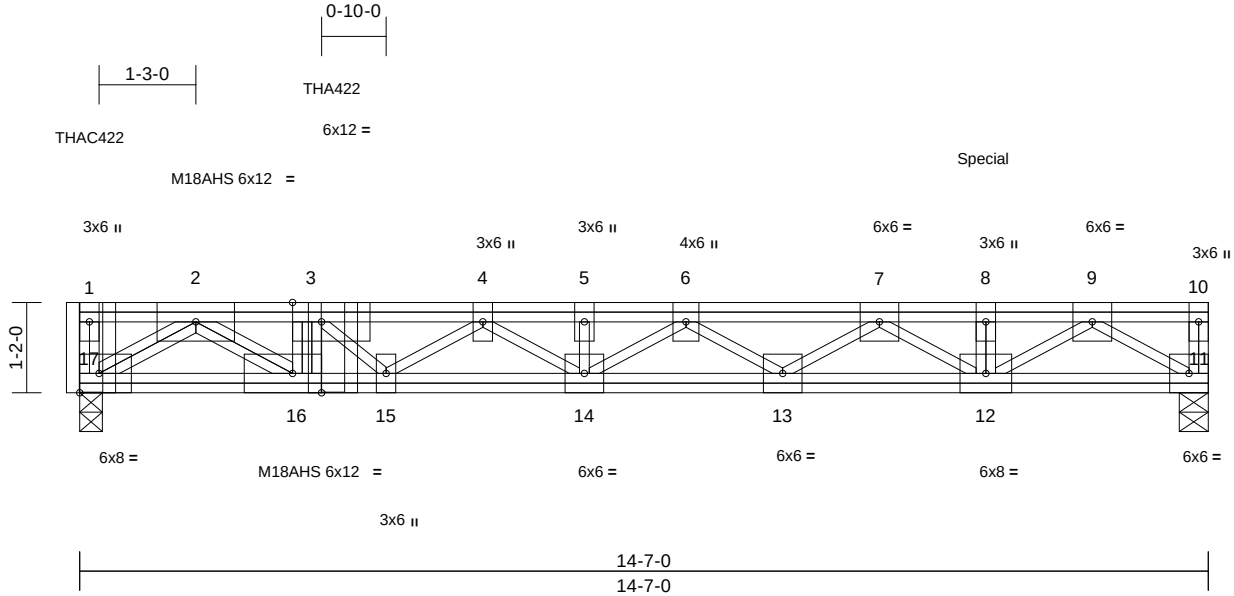
May 28,2025

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2FG4	Floor Girder	1	1	173795598
Job Reference (optional)					

Structural, LLC, Thurmont, MD - 21788,

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Page: 1



Scale = 1:29.8

Plate Offsets (X, Y): [3:0-4-8,Edge], [16:0-4-8,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	0.46	Vert(LL)	-0.18	13-14	>968	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.21	14	>823	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.04	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 124 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) 11=0-4-8, 17=0-3-8
Max Uplift 11=-560 (LC 3)
Max Grav 11=740 (LC 1), 17=2854 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-1070/0, 10-11=-64/0, 1-2=0/0, 2-3=-4899/0, 3-4=-5233/0, 4-5=-4889/0, 5-6=-4889/0, 6-7=-3690/58, 7-8=-1772/1992, 8-9=-1772/1992, 9-10=0/0
BOT CHORD 16-17=0/2631, 15-16=0/5218, 14-15=0/5216, 13-14=0/4434, 12-13=-872/2919, 11-12=-932/992
WEBS 9-11=-1192/1120, 9-12=-1274/938, 8-12=0/1515, 7-12=-1378/0, 7-13=0/1010, 6-13=-997/0, 6-14=0/618, 5-14=-66/0, 4-14=-455/0, 4-15=0/94, 2-17=-3162/0, 2-16=0/2772, 3-16=-1632/0, 3-15=-57/20

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 560 lb uplift at joint 11.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

- 5) Use Simpson Strong-Tie THAC422 (6-16d Girder, 6-16d Truss) or equivalent at 0-1-12 from the left end to connect truss(es) to front face of top chord.
- 6) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 3-3-4 from the left end to connect truss(es) to back face of top chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
- 7) Fill all nail holes where hanger is in contact with lumber.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1749 lb up at 11-8-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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: 11-17=-10, 1-10=-100
Concentrated Loads (lb)
Vert: 1=-1003 (F), 8=412 (F), 3=-1427 (B)



May 28,2025

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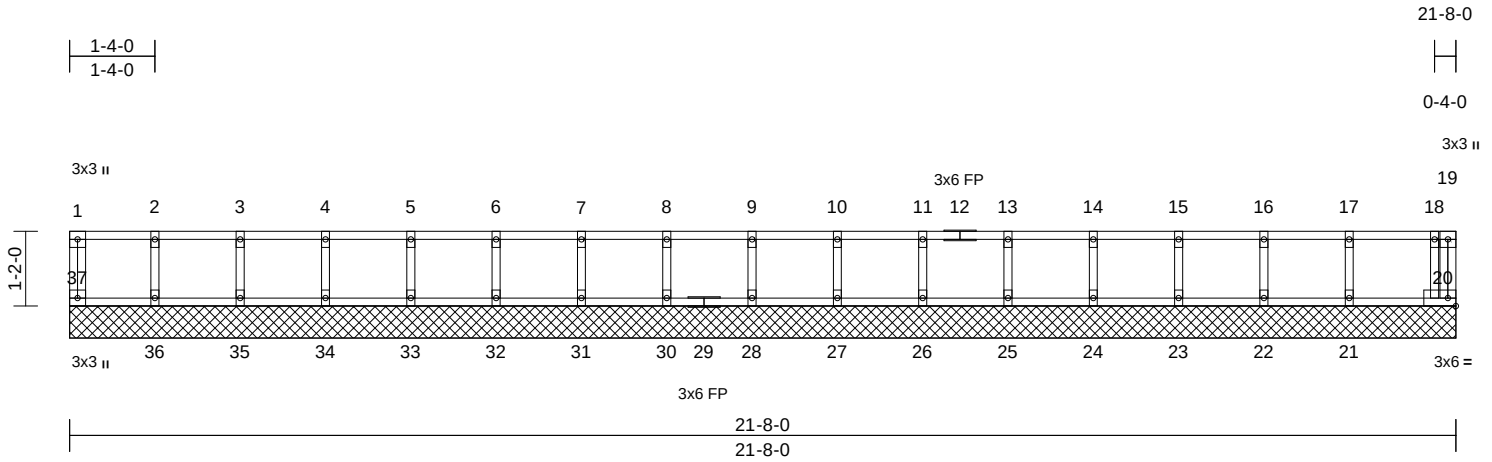
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2FGE1	Floor Supported Gable	1	1	Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788,

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Scale = 1:36

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	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	20	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, 6-32=-107/0, 7-31=-107/0, 8-30=-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
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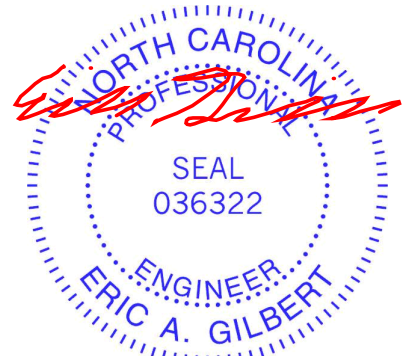
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

NOTES

- 1) All plates are 1.5x3 (II) 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) N/A
- 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

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, 32-33=0/12, 31-32=0/12, 30-31=0/12, 28-30=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



May 28,2025

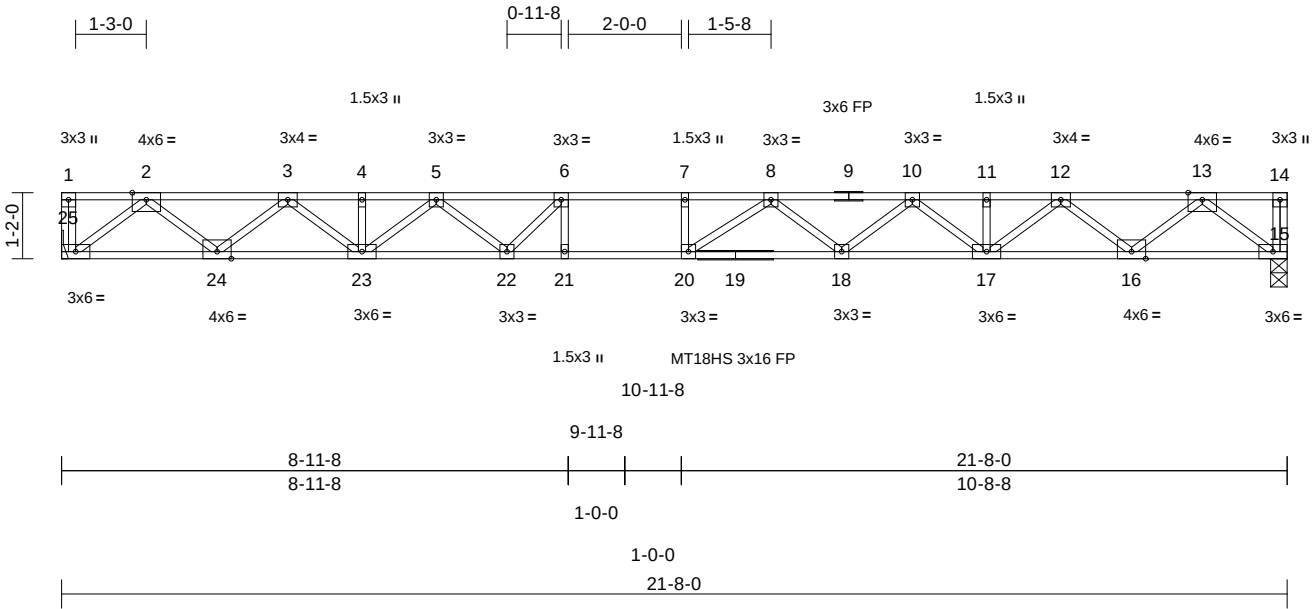
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2F1	Floor	2	1	173795600
Job Reference (optional)					



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	0.69	-0.46	18-20	>559	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.63	18-20	>405	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.08	15	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							
										Weight: 110 lb	FT = 20%F, 12%E

- LUMBER**
- TOP CHORD 2x4 SP SS(flat) *Except* 9-14:2x4 SP No.2 (flat)
- BOT CHORD 2x4 SP DSS(flat)
- WEBS 2x4 SP No.3(flat)
- BRACING**
- TOP CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (size) 15=0-3-8, 25= Mechanical
- Max Grav 15=942 (LC 1), 25=942 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-25=-32/0, 14-15=-32/0, 1-2=0/0, 2-3=-2050/0, 3-4=-3545/0, 4-5=-3545/0, 5-6=-4441/0, 6-7=-4769/0, 7-8=-4769/0, 8-10=-4438/0, 10-11=-3535/0, 11-12=-3535/0, 12-13=-2051/0, 13-14=0/0
- BOT CHORD 24-25=0/1187, 23-24=0/2887, 22-23=0/4083, 21-22=0/4769, 20-21=0/4769, 18-20=0/4721, 17-18=0/4106, 16-17=0/2887, 15-16=0/1187
- WEBS 6-21=-110/246, 7-20=-181/36, 2-25=-1489/0, 2-24=0/1123, 3-24=-1090/0, 3-23=0/840, 4-23=-72/0, 5-23=-686/0, 5-22=0/585, 6-22=-706/0, 13-15=-1489/0, 13-16=0/1125, 12-16=-1087/0, 12-17=0/827, 11-17=-54/0, 10-17=-729/0, 10-18=0/432, 8-18=-390/0, 8-20=-277/483

- 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



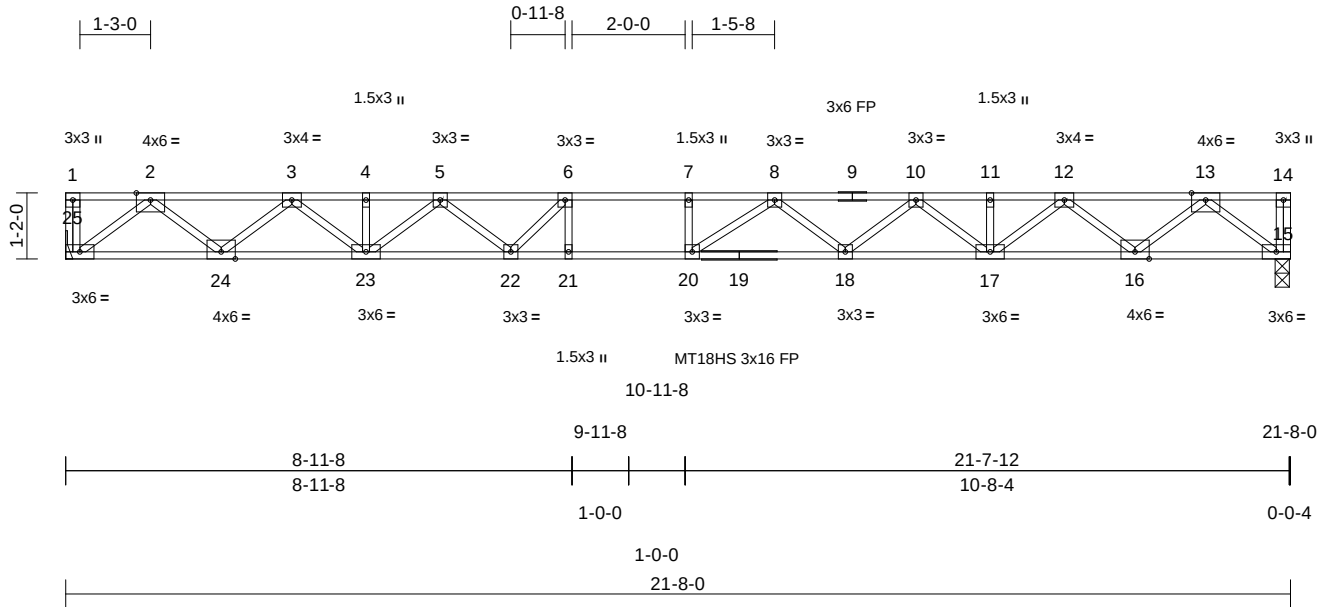
May 28,2025

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795601
	2F2	Floor	3	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

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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	0.69	Vert(LL)	-0.46	18-20	>559	480	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.63	18-20	>405	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: 110 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) *Except* 9-1:2x4 SP SS (flat)

BOT CHORD 2x4 SP DSS(flat)

WEBS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 15=0-3-0, 25= Mechanical

Max Grav 15=942 (LC 1), 25=942 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-25=-32/0, 14-15=-32/0, 1-2=0/0, 2-3=-2050/0, 3-4=-3545/0, 4-5=-3545/0, 5-6=-4441/0, 6-7=-4769/0, 7-8=-4769/0, 8-10=-4438/0, 10-11=-3535/0, 11-12=-3535/0, 12-13=-2051/0, 13-14=0/0

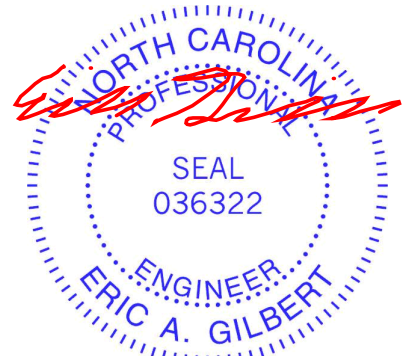
BOT CHORD 24-25=0/1187, 23-24=0/2887, 22-23=0/4083, 21-22=0/4769, 20-21=0/4769, 18-20=0/4721, 17-18=0/4106, 16-17=0/2887, 15-16=0/1187

WEBS 6-21=-110/246, 7-20=-181/36, 2-25=-1489/0, 2-24=0/1123, 3-24=-1090/0, 3-23=0/840, 4-23=-72/0, 5-23=-686/0, 5-22=0/585, 6-22=-706/0, 13-15=-1489/0, 13-16=0/1125, 12-16=-1087/0, 12-17=0/827, 11-17=-54/0, 10-17=-729/0, 10-18=0/432, 8-18=-390/0, 8-20=-277/483

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



May 28,2025

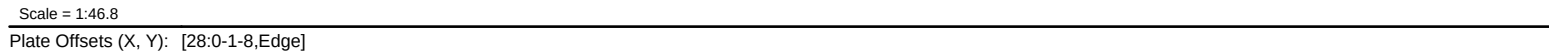
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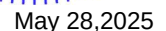


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Structural, LLC, Thurmont, MD - 21788, Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:19 Page: 1
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LUMBER		WEBS	6-29=-246/76, 7-28=-249/0, 14-23=-89/0,
TOP CHORD	2x4 SP No.2(flat) *Except* 10-19:2x4 SP SS (flat)		2-33=-1215/0, 2-32=0/866, 3-32=-829/0, 3-31=0/560, 4-31=-42/0, 5-31=-471/0, 5-30=-21/304, 6-30=-306/258, 13-23=-1734/0, 13-24=0/1377, 12-24=-1354/0, 12-25=0/1102, 11-25=-50/0, 9-25=-985/0, 9-26=0/661, 8-26=-672/0, 15-23=-1262/0, 15-22=0/930, 16-22=-904/0, 16-21=0/759, 8-28=0/732, 17-21=-78/0, 18-21=-703/82, 18-20=-169/476
BOT CHORD	2x4 SP SS(flat) *Except* 27-20:2x4 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) 20= Mechanical, 23=0-3-8, 33= Mechanical		
	Max Uplift 20=-414 (LC 3)		
	Max Grav 20=159 (LC 4), 23=1930 (LC 1), 33=775 (LC 3)		
FORCES			
	(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-33=-31/0, 19-20=-4/0, 1-2=0/0, 2-3=-1634/0, 3-4=-2709/0, 4-5=-2709/0, 5-6=-3195/0, 6-7=-3197/0, 7-8=-3197/0, 8-9=-2257/0, 9-11=-986/0, 11-12=-986/0, 12-13=0/979, 13-14=0/3420, 14-15=0/3420, 15-16=0/1982, 16-17=-145/777, 17-18=-145/777, 18-19=0/0		
BOT CHORD	32-33=0/968, 31-32=0/2271, 30-31=0/3078, 29-30=0/3197, 28-29=0/3197, 26-28=0/2767, 25-26=0/1753, 24-25=-96/129, 23-24=-2037/0, 22-23=-2613/0, 21-22=-1371/86, 20-21=-226/80		
		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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 414 lb uplift at joint 20.	
		5) 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.	
		6) CAUTION, Do not erect truss backwards.	
		LOAD CASE(S) Standard	



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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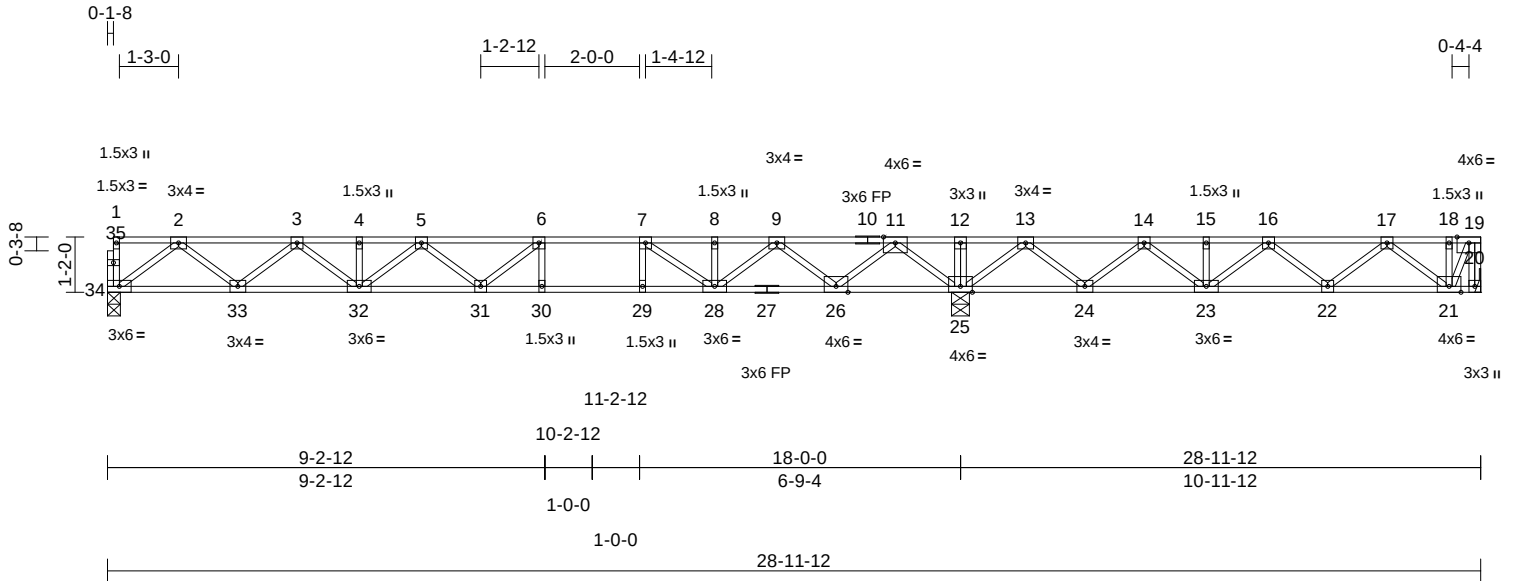


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2F5	Floor	1	1	Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.20 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:19
ID:Dbee?U2wpobdWzL9x2uzYuy8MUB-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRcDoi7J4zJC?f

Page: 1



Scale = 1:48.6

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	0.91	Vert(LL)	-0.26	30-31	>812	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.36	30-31	>596	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	25	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 150 lb	FT = 20%F, 12%E

LUMBER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP SS(flat) *Except* 27-20:2x4 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 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
REACTIONS	(size)
	20= Mechanical, 25=0-4-8, 34=0-3-4
	Max Uplift 20=26 (LC 3)
	Max Grav 20=397 (LC 4), 25=1562 (LC 1), 34=686 (LC 3)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-34=-28/0, 19-20=-399/22, 1-2=-2/0, 2-3=-1423/0, 3-4=-2283/0, 4-5=-2283/0, 5-6=-2567/0, 6-7=-2369/0, 7-8=-1574/0, 8-9=-1574/0, 9-11=-279/250, 11-12=0/1909, 12-13=0/1909, 13-14=-254/986, 14-15=-804/507, 15-16=-804/507, 16-17=-750/190, 17-18=-197/14, 18-19=-197/14
BOT CHORD	33-34=0/857, 32-33=0/1958, 31-32=0/2581, 30-31=0/2369, 29-30=0/2369, 28-29=0/2369, 26-28=-27/1033, 25-26=-795/0, 24-25=-1265/0, 23-24=-729/633, 22-23=-322/887, 21-22=-82/589, 20-21=0/0

WEBS	6-30=-310/0, 7-29=0/307, 12-25=-84/0, 11-25=-1398/0, 11-26=0/1061, 9-26=-1009/0, 9-28=0/714, 13-25=-1007/0, 13-24=0/687, 14-24=-659/0, 14-23=0/387, 15-23=-50/0, 16-23=-275/0, 16-22=-178/173, 17-22=-140/210, 17-21=-501/87, 8-28=-49/130, 18-21=-50/0, 19-21=-30/426, 7-28=-1088/0, 2-34=-1073/0, 2-33=0/737, 3-33=-696/0, 3-32=0/415, 4-32=-16/3, 5-32=-380/0, 5-31=-129/123, 6-31=-50/435
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- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x3 (=) MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 20.
 - 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



May 28, 2025

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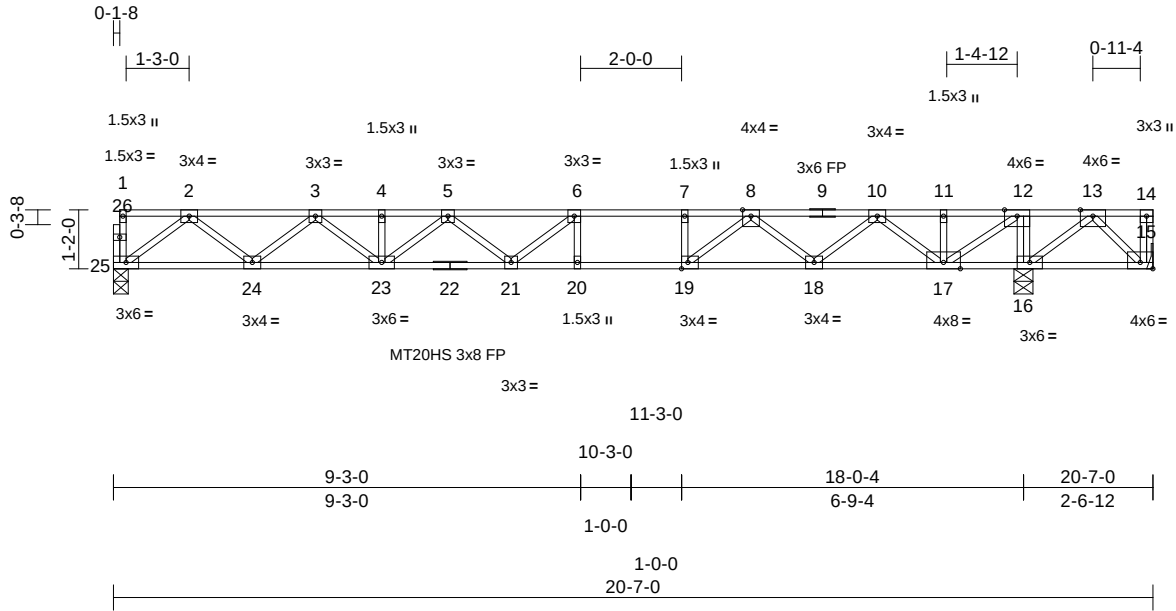
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795604
	2F6	Floor	2	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:19
ID:hoC1Cq3YZ6jU77wMUIPC55y8MUA-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?r

Page: 1



Scale = 1:45.6									
Plate Offsets (X, Y): [15:Edge,0-1-8], [19:0-1-8,Edge]									
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.27 20-21	>782	480
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.38 20-21	>572	360
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03 16	n/a	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S					
								Weight: 106 lb	FT = 20%F, 12%E

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

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 16-17,15-16.

REACTIONS (size) 15= Mechanical, 16=0-4-8, 25=0-3-8
Max Uplift 15=-796 (LC 3)
Max Grav 15=-122 (LC 4), 16=1833 (LC 1), 25=670 (LC 3)

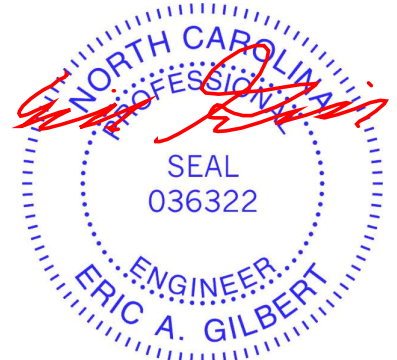
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-25=-28/0, 14-15=-35/0, 1-2=-2/0, 2-3=-1382/0, 3-4=-2202/0, 4-5=-2202/0, 5-6=-2443/0, 6-7=-2196/0, 7-8=-2196/0, 8-10=-858/0, 10-11=0/658, 11-12=0/658, 12-13=0/1887, 13-14=0/0
BOT CHORD 24-25=0/836, 23-24=0/1897, 21-23=0/2485, 20-21=0/2196, 19-20=0/2196, 18-19=0/1540, 17-18=0/239, 16-17=-1887/0, 15-16=-826/0, 6-20=-288/0, 7-19=-326/0, 12-16=-963/0, 2-25=-1046/0, 2-24=0/711, 3-24=-671/0, 3-23=0/389, 4-23=-12/0, 5-23=-361/0, 5-21=-117/130, 6-21=-57/414, 13-16=-1396/0, 13-15=0/1157, 8-19=0/901, 8-18=-889/0, 10-18=0/806, 10-17=-1143/0, 11-17=-77/6, 12-17=0/1475

WEBS
6-20=-288/0, 7-19=-326/0, 12-16=-963/0, 2-25=-1046/0, 2-24=0/711, 3-24=-671/0, 3-23=0/389, 4-23=-12/0, 5-23=-361/0, 5-21=-117/130, 6-21=-57/414, 13-16=-1396/0, 13-15=0/1157, 8-19=0/901, 8-18=-889/0, 10-18=0/806, 10-17=-1143/0, 11-17=-77/6, 12-17=0/1475

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 796 lb uplift at joint 15.
- 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



May 28,2025

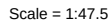
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

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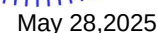
818 Soundside Road
Edenton, NC 27932

Structural, LLC, Thurmont, MD - 21788, Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:19 Page: 1
ID: ZZRXC63dLDvckD7ibU8Fxy8MU6-RfC?PsB70Hg3NSqPnL8w3uITXbGKWkRCDoi7J4zJC?f



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	0.98	Vert(LL)	-0.28	26-27	>776	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.38	26-27	>568	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	21	n/a	n/a		
BCDL	5.0	Code	IRC2021/TP12014	Matrix-S							Weight: 131 lb	FT = 20%F, 12%E

LOAD CASE(S) Standard



WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-17-19 (Rev. 1/2/2025) BEFORE USE.
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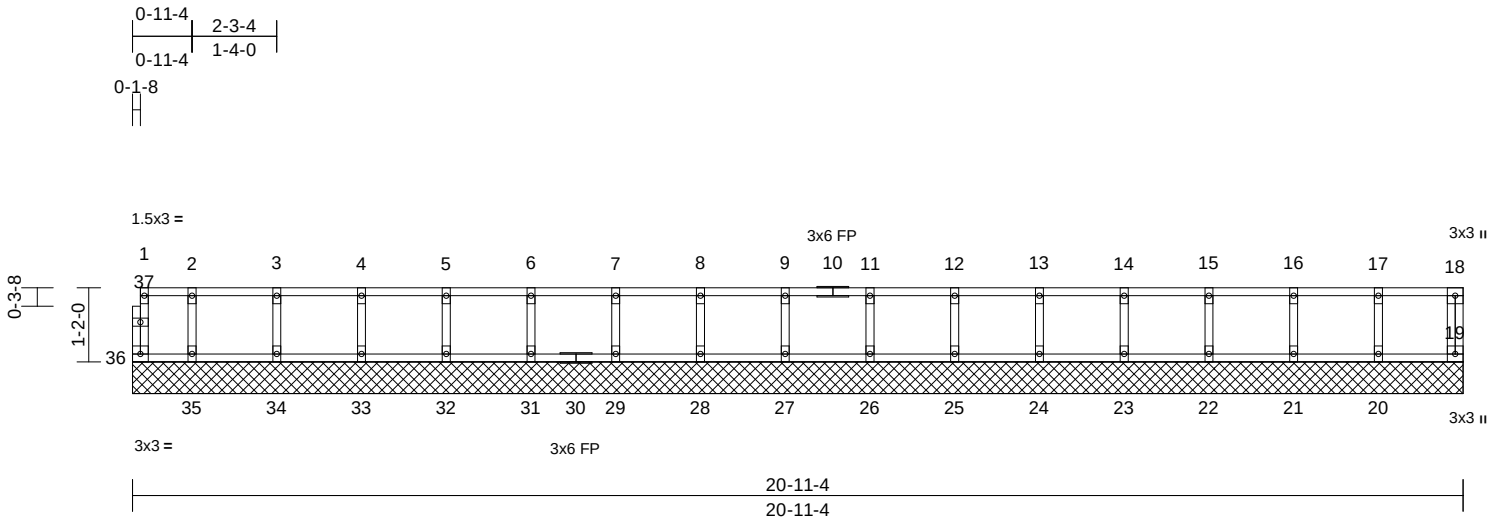
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2FGE3	Floor Supported Gable	1	1	Job Reference (optional)

173795609

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:23
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Page: 1



Scale = 1:36.3

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	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	19	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R						Weight: 88 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	17-20=-88/0, 16-21=-89/0, 15-22=-89/0, 14-23=-89/0, 13-24=-89/0, 12-25=-89/0, 11-26=-89/0, 9-27=-89/0, 8-28=-89/0, 7-29=-89/0, 6-31=-89/0, 5-32=-89/0, 4-33=-88/0, 3-34=-92/0, 2-35=-74/0
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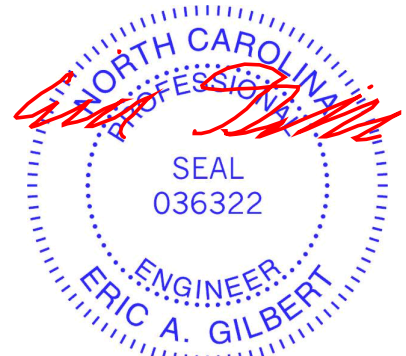
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

- 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.
 - 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

REACTIONS (size)	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, 31=20-11-4, 32=20-11-4, 33=20-11-4, 34=20-11-4, 35=20-11-4, 36=20-11-4
Max Grav	19=39 (LC 1), 20=98 (LC 1), 21=98 (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), 29=98 (LC 1), 31=98 (LC 1), 32=98 (LC 1), 33=97 (LC 1), 34=102 (LC 1), 35=79 (LC 1), 36=22 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-36=-18/0, 18-19=-36/0, 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, 9-11=-4/0, 11-12=-4/0, 12-13=-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, 32-33=0/4, 31-32=0/4, 29-31=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



May 28,2025

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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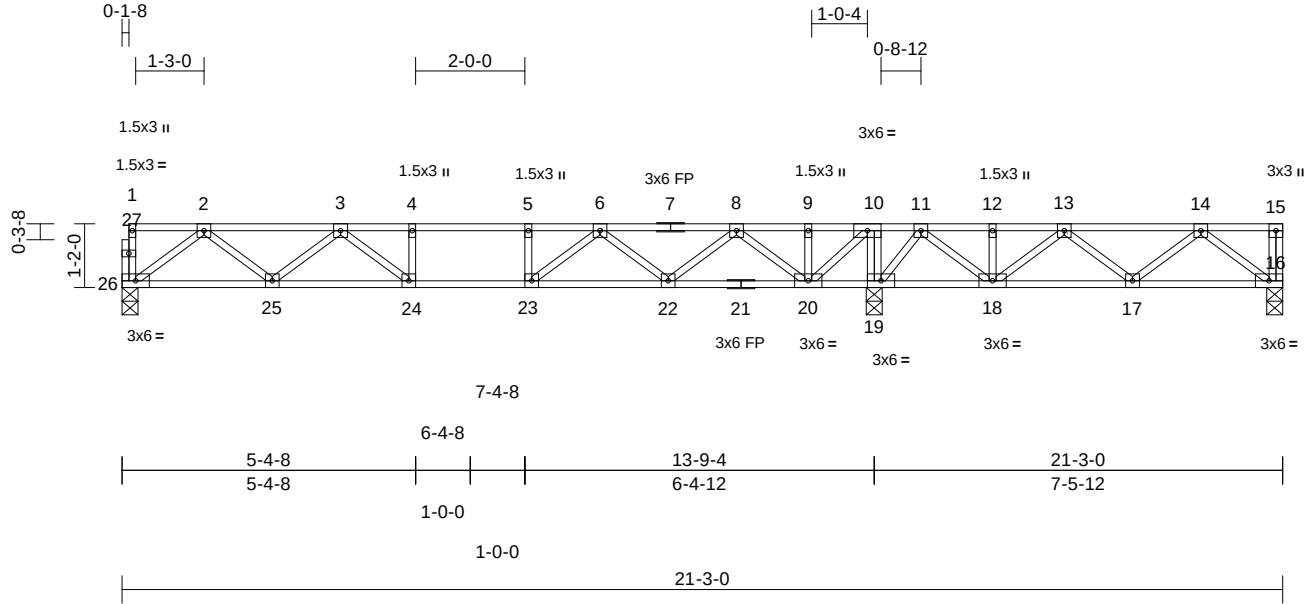
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795610
	2F12	Floor	5	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.20 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:20
ID:1UUUhjw1OQCbH?2nEBOzY8MUM-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:42.2

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	24-25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.10	24-25	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	19	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S								
											Weight: 110 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) 16=0-3-8, 19=0-3-8, 26=0-3-8
Max Uplift 16=58 (LC 3)
Max Grav 16=218 (LC 4), 19=992 (LC 1), 26=425 (LC 3)

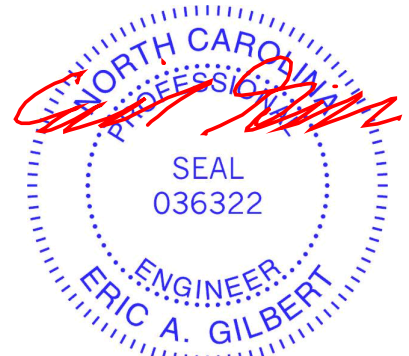
FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-24/0, 15-16=-25/0, 1-2=-1/0, 2-3=-821/0, 3-4=-1176/0, 4-5=-1176/0, 5-6=-1176/0, 6-8=-612/0, 8-9=0/465, 9-10=0/465, 10-11=0/1007, 11-12=-143/541, 12-13=-143/541, 13-14=-287/211, 14-15=0/0
BOT CHORD 25-26=0/524, 24-25=0/1086, 23-24=0/1176, 22-23=0/957, 20-22=-25/255, 19-20=-1007/0, 18-19=-762/0, 17-18=-354/305, 16-17=-91/245
WEBS 10-19=-604/0, 14-16=-307/115, 14-17=-155/54, 13-17=-24/187, 13-18=-358/0, 4-24=-109/0, 5-23=-176/0, 2-26=-655/0, 2-25=0/387, 3-25=-345/0, 3-24=-13/215, 6-23=0/381, 6-22=-461/0, 8-22=0/474, 8-20=-734/0, 9-20=-56/0, 10-20=0/795, 12-18=-67/0, 11-18=0/484, 11-19=-480/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- 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) 16. 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



May 28, 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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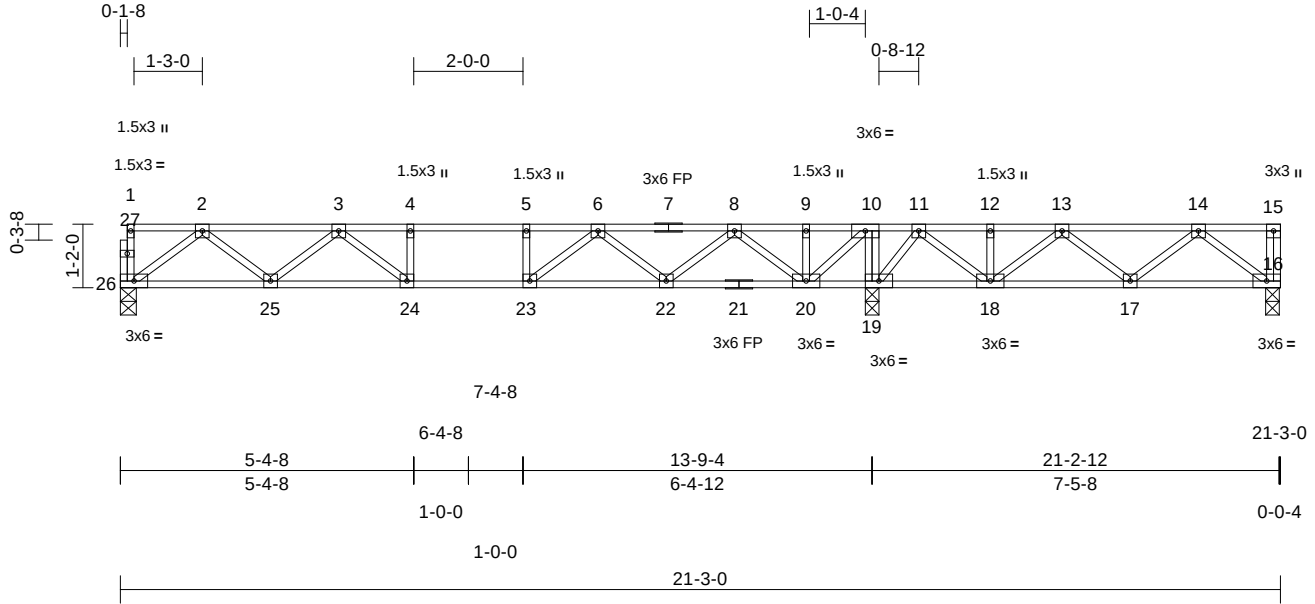
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795611
	2F14	Floor	3	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.20 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:20
ID:Vg1su3wf9kK2JRaELxjd8ny8MUL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 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	24-25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.10	24-25	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	19	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 110 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) 16=0-3-0, 19=0-3-0, 26=0-3-8
Max Uplift 16=58 (LC 3)
Max Grav 16=218 (LC 4), 19=992 (LC 1), 26=425 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-26=-24/0, 15-16=-25/0, 1-2=-1/0, 2-3=-821/0, 3-4=-1176/0, 4-5=-1176/0, 5-6=-1176/0, 6-8=-612/0, 8-9=0/465, 9-10=0/465, 10-11=0/1007, 11-12=-143/541, 12-13=-143/541, 13-14=-287/211, 14-15=0/0
BOT CHORD 25-26=0/524, 24-25=0/1086, 23-24=0/1176, 22-23=0/957, 20-22=-25/255, 19-20=-1007/0, 18-19=-762/0, 17-18=-354/305, 16-17=-91/245
WEBS 4-24=-109/0, 5-23=-176/0, 10-19=-604/0, 2-26=-655/0, 2-25=0/387, 3-25=-345/0, 3-24=-13/215, 14-16=-307/115, 14-17=-155/54, 13-17=-24/187, 13-18=-358/0, 6-23=0/381, 6-22=-461/0, 8-22=0/474, 8-20=-734/0, 9-20=-56/0, 10-20=0/795, 12-18=-67/0, 11-18=0/484, 11-19=-480/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- 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) 16. 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



May 28, 2025

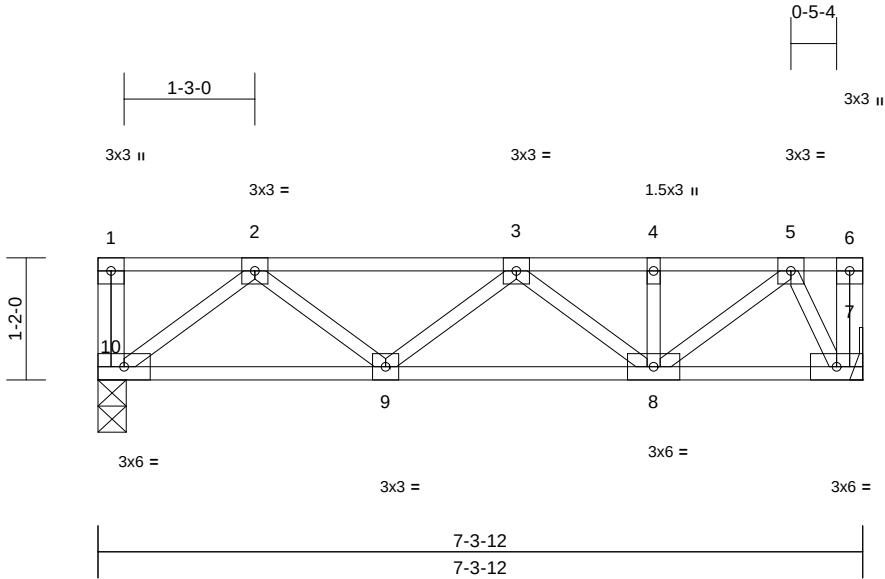
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcacompoments.com)

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
	2F15	Floor	1	1		I73795612
Job Reference (optional)						



Scale = 1:22

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	0.24	Vert(LL)	-0.01	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.21	Vert(CT)	-0.02	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	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

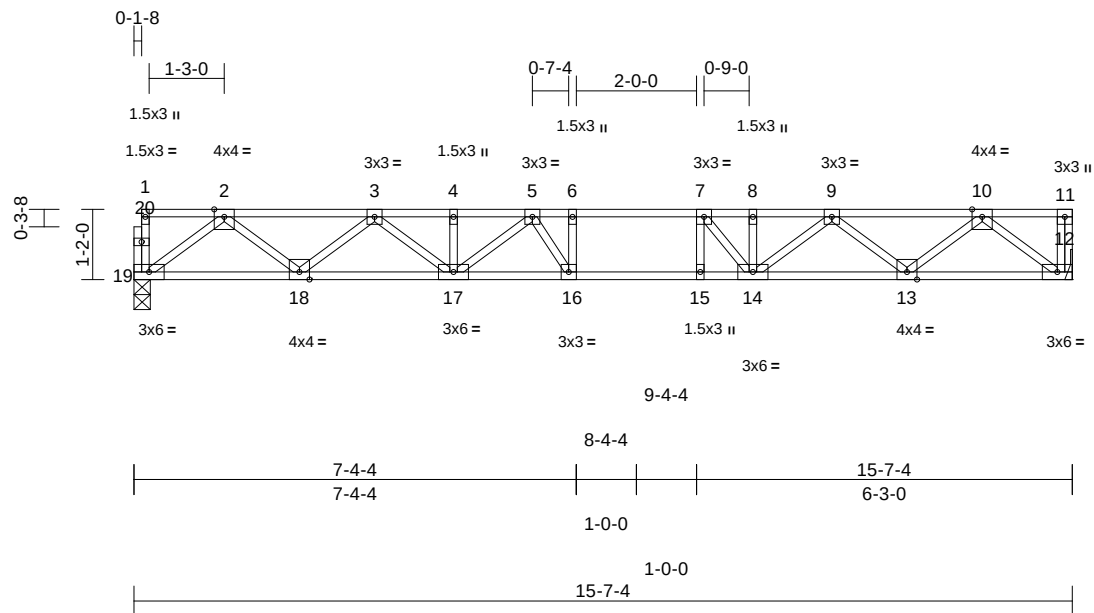
- LUMBER**
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat)
- BRACING**
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (size) 7= Mechanical, 10=0-3-4
 Max Grav 7=388 (LC 1), 10=388 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-10=-37/0, 6-7=-4/0, 1-2=0/0, 2-3=-585/0, 3-4=-521/0, 4-5=-521/0, 5-6=0/0
 BOT CHORD 9-10=0/448, 8-9=0/687, 7-8=0/203
 WEBS 2-10=-563/0, 2-9=0/178, 3-9=-133/0, 3-8=-212/0, 4-8=-98/0, 5-8=0/406, 5-7=-427/0

- 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



May 28,2025

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795613
	2F16	Floor	2	1	Job Reference (optional)	



Scale = 1:38.3												
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	0.63	Vert(LL)	-0.19	16-17	>991	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.26	16-17	>720	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.04	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 81 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) 12= Mechanical, 19=0-3-4
Max Grav 12=844 (LC 1), 19=838 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-19=-35/0, 11-12=-39/0, 1-2=-2/0, 2-3=-1727/0, 3-4=-2784/0, 4-5=-2784/0, 5-6=-3056/0, 6-7=-3056/0, 7-8=-2758/0, 8-9=-2758/0, 9-10=-1731/0, 10-11=0/0
 - BOT CHORD 18-19=0/1046, 17-18=0/2378, 16-17=0/3022, 15-16=0/3056, 14-15=0/3056, 13-14=0/2376, 12-13=0/1047
 - WEBS 6-16=-264/58, 7-15=-78/208, 10-12=-1313/0, 10-13=0/890, 9-13=-840/0, 9-14=0/487, 8-14=-87/158, 7-14=-723/0, 2-19=-1309/0, 2-18=0/887, 3-18=-847/0, 3-17=0/519, 4-17=-93/0, 5-17=-384/0, 5-16=-192/408

- 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



May 28,2025

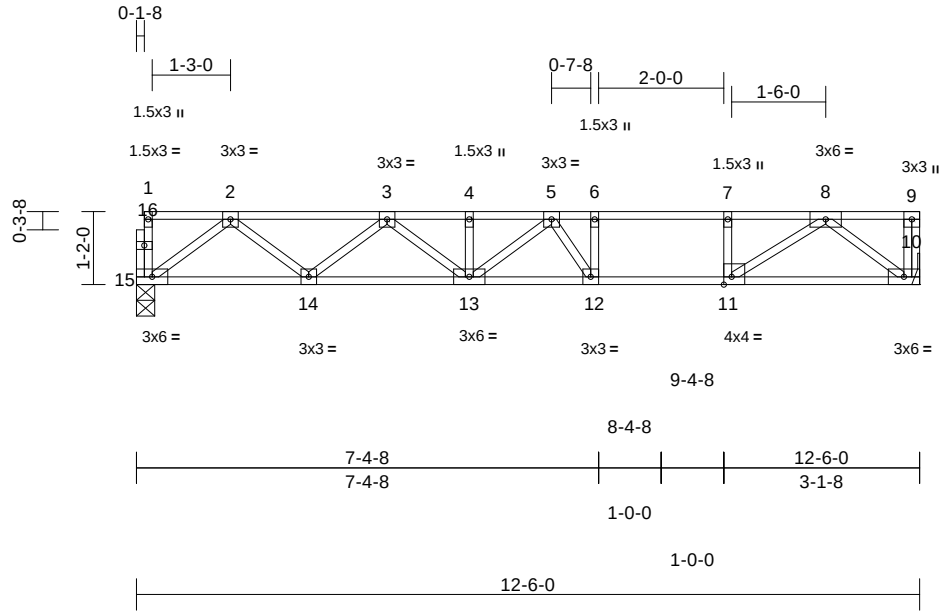
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
	2F17	Floor	2	1		173795614
Job Reference (optional)						

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:21

Page: 1

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Scale = 1:36.8

Plate Offsets (X, Y): [11:0-1-8,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	0.55	Vert(LL)	-0.18	12-13	>837	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.24	12-13	>622	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.02	10	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) 10= Mechanical, 15=0-3-8
Max Grav 10=674 (LC 1), 15=668 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 9-10=-82/0, 1-15=-35/0, 1-2=-2/0,
2-3=-1295/0, 3-4=-1951/0, 4-5=-1951/0,
5-6=-1686/0, 6-7=-1686/0, 7-8=-1686/0,
8-9=0/0

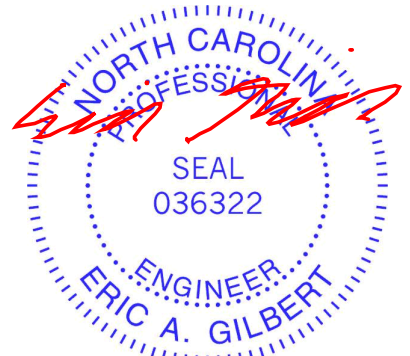
BOT CHORD 14-15=0/819, 13-14=0/1752, 12-13=0/1939,
11-12=0/1686, 10-11=0/800

WEBS 6-12=-46/300, 7-11=-446/0, 2-15=-1025/0,
2-14=0/619, 3-14=-596/0, 3-13=0/254,
4-13=-71/0, 5-13=-119/69, 5-12=-545/26,
8-10=-1004/0, 8-11=0/1065

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



May 28,2025

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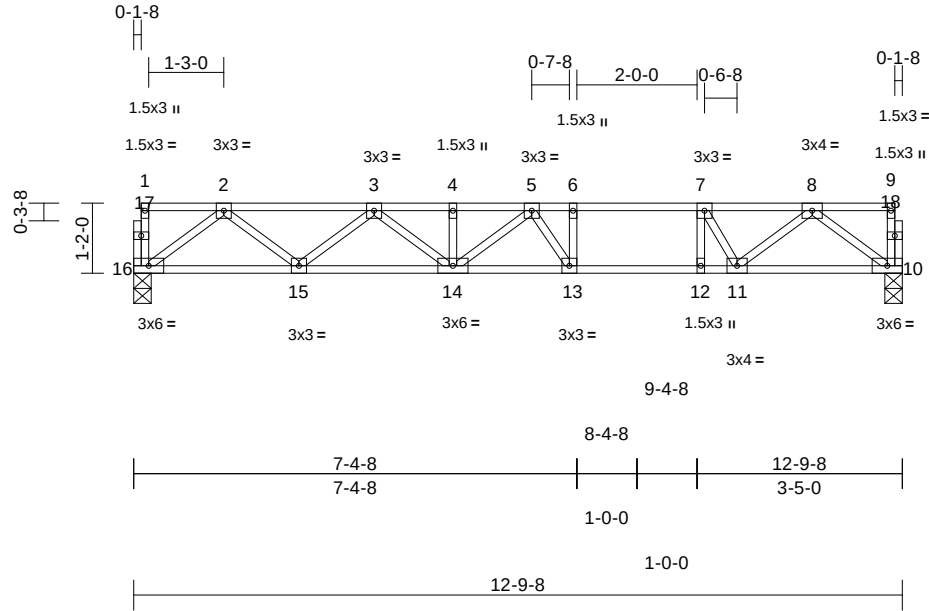
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795615
	2F18	Floor	3	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.20 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:21

Page: 1

ID: _tbF6PxHw1Suwa9RvfEsh_y8MUK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:38.3

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	1.00	Vert(LL)	-0.18	13-14	>846	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.24	13-14	>624	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.02	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 66 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, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

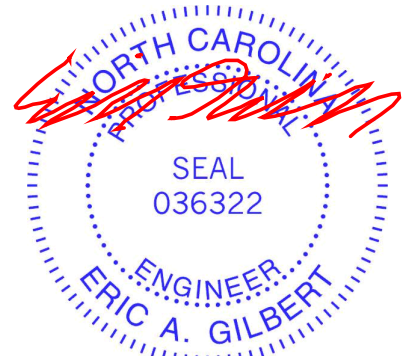
REACTIONS (size) 10=0-3-8, 16=0-3-8
 Max Grav 10=684 (LC 1), 16=684 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-16=-34/0, 9-10=-70/0, 1-2=-2/0, 2-3=-1335/0, 3-4=-2032/0, 4-5=-2032/0, 5-6=-1839/0, 6-7=-1839/0, 7-8=-1406/0, 8-9=-4/0
 BOT CHORD 15-16=0/840, 14-15=0/1812, 13-14=0/2029, 12-13=0/1839, 11-12=0/1839, 10-11=0/792
 WEBS 6-13=-85/162, 7-12=0/450, 2-16=-1051/0, 2-15=0/644, 3-15=-621/0, 3-14=0/281, 8-10=-989/0, 8-11=0/799, 7-11=-892/0, 4-14=-77/0, 5-14=-139/73, 5-13=-434/75

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



May 28, 2025

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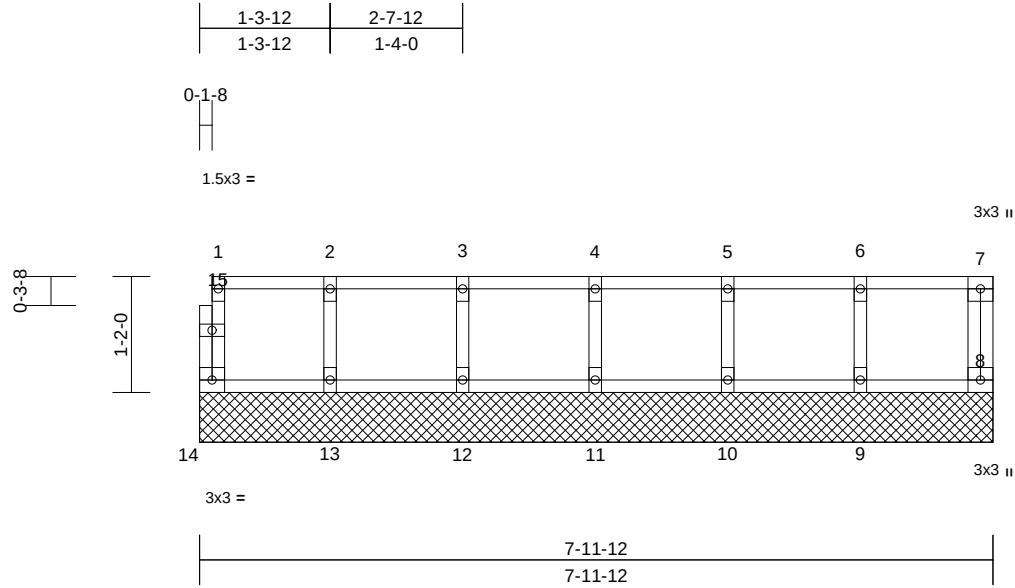
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2FGE6	Floor Supported Gable	1	1	Job Reference (optional)
					I73795616

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:23

Page: 1

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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	0.09	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.

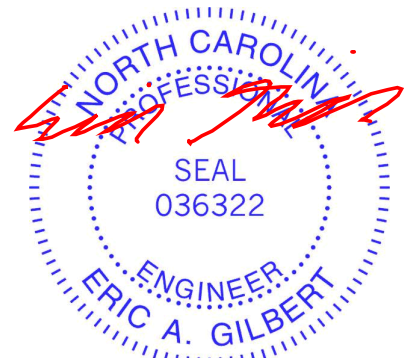
REACTIONS (size)	8=7-11-12, 9=7-11-12, 10=7-11-12, 11=7-11-12, 12=7-11-12, 13=7-11-12, 14=7-11-12
Max Grav	8=63 (LC 1), 9=143 (LC 1), 10=148 (LC 1), 11=146 (LC 1), 12=148 (LC 1), 13=141 (LC 1), 14=56 (LC 1)

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



May 28,2025

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)

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818 Soundside Road
Edenton, NC 27932

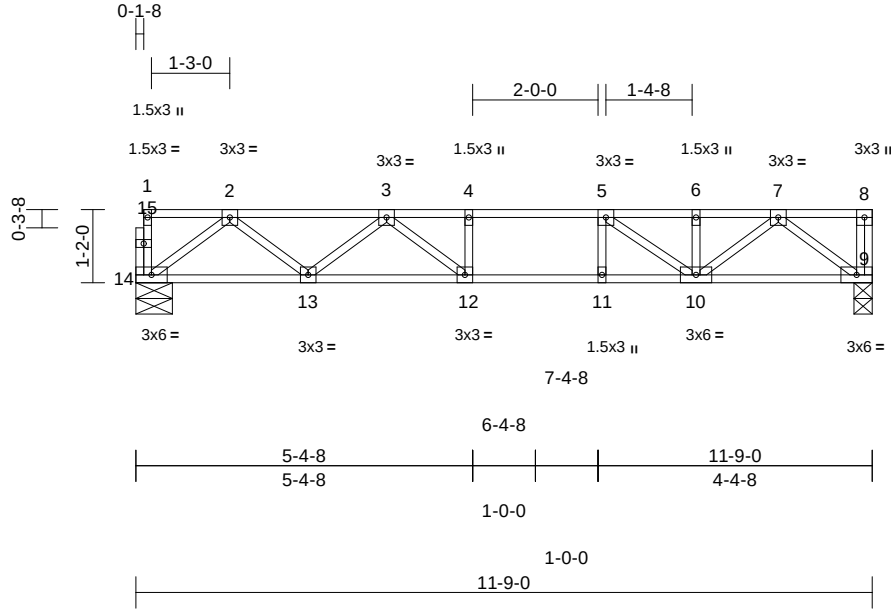
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2F20	Floor	3	1	Job Reference (optional)

I73795617

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:21
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Page: 1



Scale = 1:36.8

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	0.42	Vert(LL)	-0.07	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.09	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	NO	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.

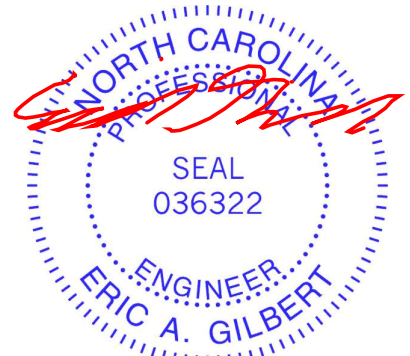
REACTIONS (size) 9=0-3-8, 14=0-7-0
Max Grav 9=422 (LC 1), 14=418 (LC 1)

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



May 28,2025

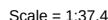
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcacompnents.com)

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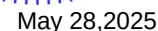
818 Soundside Road
Edenton, NC 27932

Structural, LLC, Thurmont, MD - 21788, Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:21 Page: 1
ID:serlxn o GvKPCSC8Vlorqy8MUG-RfC?PsB70Hg3NSoPanL8w3uITXbGKWCrCDoi7J4zJC?f



LUMBER		6) CAUTION, Do not erect truss backwards.
TOP CHORD	2x4 SP No.2(flat)	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: 1=-79
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)	11=0-3-8, 16=0-7-0, 17=
		Mechanical
	Max Uplift	17=-209 (LC 4)
	Max Grav	11=361 (LC 4), 16=860 (LC 7), 17=66 (LC 3)
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-17=-90/0, 10-11=-39/0, 1-2=0/0, 2-3=0/658, 3-4=0/658, 4-5=-318/0, 5-6=-823/0, 6-7=-823/0, 7-8=-689/0, 8-9=-689/0, 9-10=0/0	
BOT CHORD	16-17=-183/0, 15-16=-142/77, 14-15=0/646, 13-14=0/823, 12-13=0/823, 11-12=0/416	
WEBS	3-16=-86/0, 6-14=-144/0, 7-13=-33/17, 2-16=-601/0, 2-17=0/347, 4-16=-709/0, 4-15=0/438, 5-15=-427/0, 5-14=0/288, 9-11=-522/0, 9-12=0/349, 8-12=-109/6, 7-12=-214/0	

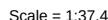
- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 17.
- 4) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10'-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.



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 DS8-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)

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Structural, LLC, Thurmont, MD - 21788, Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:21 Page: 1
ID:KqP897?Ola4B1M0iCp1O2v8MUF-RfC?PsB70Hg3NSqPqnL8w3ulTXbGKWRCdoi7J4zJC?f



LUMBER	Vert: 11-17=-7, 1-10=-67
TOP CHORD 2x4 SP No.2(flat)	Concentrated Loads (lb)
BOT CHORD 2x4 SP No.2(flat)	Vert: 1=-110, 3=-2300
WEBS 2x4 SP No.3(flat)	

REACTIONS (size) 11=0-3-8, 16=0-7-0
Max Gray 11=401 (LC 4), 16=2997 (LC 1)

TOP CHORD 1-17=-106/0, 10-11=-39/0, 1-2=0/0,
2-3=0/307, 3-4=0/307, 4-5=-622/25,
5-6=-1026/0, 6-7=-1026/0, 7-8=-783/0,
8-9=-783/0. 9-10=0/0

BOT CHORD 16-17=-51/0, 15-16=-141/315, 14-15=0/905,
13-14=0/1026, 12-13=0/1026, 11-12=0/469

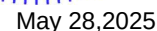
WEBS 3-16=-2373/0, 6-14=-147/0, 7-13=-40/57,
2-16=-325/0, 2-17=0/121, 4-16=-679/0,
4-15=0/411, 5-15=-384/0, 5-14=0/324,
9-11=-588/0, 9-12=0/402, 8-12=-114/36,
7-12=-370/0

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'-0" oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION. Do not erect truss backwards.

LOAD CASE(S) Standard

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

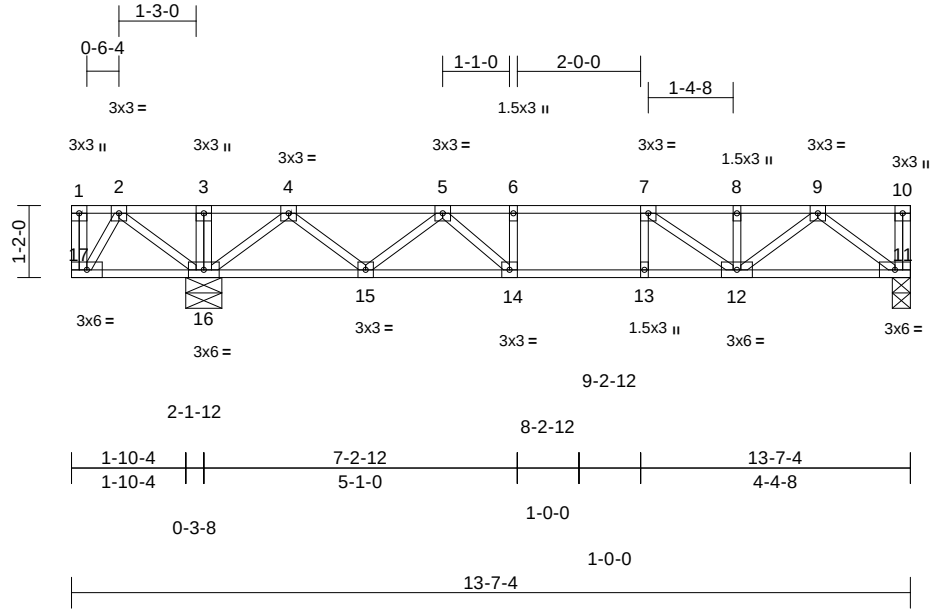


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795620
	2F22	Floor	2	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:21
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Page: 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	0.35	Vert(LL)	-0.07	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.07	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.01	11	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)

Vert: 11-17=-7, 1-10=-67
Concentrated Loads (lb)
Vert: 1=-96

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) 11=0-3-8, 16=0-7-0
Max Grav 11=395 (LC 4), 16=690 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

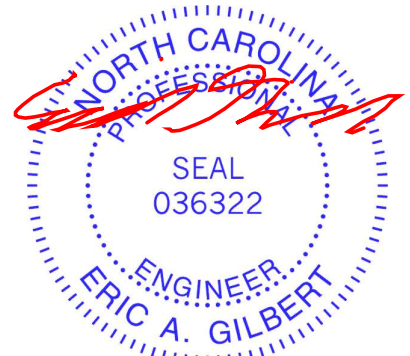
TOP CHORD 10-11=-39/0, 1-17=-105/0, 1-2=0/0, 2-3=0/315, 3-4=0/315, 4-5=-609/39, 5-6=-996/0, 6-7=-996/0, 7-8=-770/0, 8-9=-770/0, 9-10=0/0
BOT CHORD 16-17=-67/0, 15-16=-155/309, 14-15=0/888, 13-14=0/996, 12-13=0/996, 11-12=0/461
WEBS 3-16=-82/0, 2-16=-312/0, 2-17=0/128, 6-14=-158/0, 7-13=-43/52, 4-16=-664/0, 4-15=0/404, 5-15=-382/0, 5-14=0/319, 9-11=-578/0, 9-12=0/394, 8-12=-116/32, 7-12=-350/8

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

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



May 28, 2025

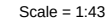
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LUMBER

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.

FORCES (lb) - Maximum Compression/Maximum Tension

BOT CHORD 26-27=-62/0, 25-26=-200/239,
24-25=-31/748, 23-24=0/793, 22-23=0/793,
20-22=-151/114, 19-20=-302/23,
18-19=-78/389, 17-18=0/275

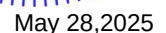
NOTES

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

- 4) 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.
- 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

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00,
Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: $17-27=-7$, $1-16=-67$
Concentrated Loads (lb)
Vert: $1=-127$



WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-17-19 (Rev. 1/2/2025) BEFORE USE.
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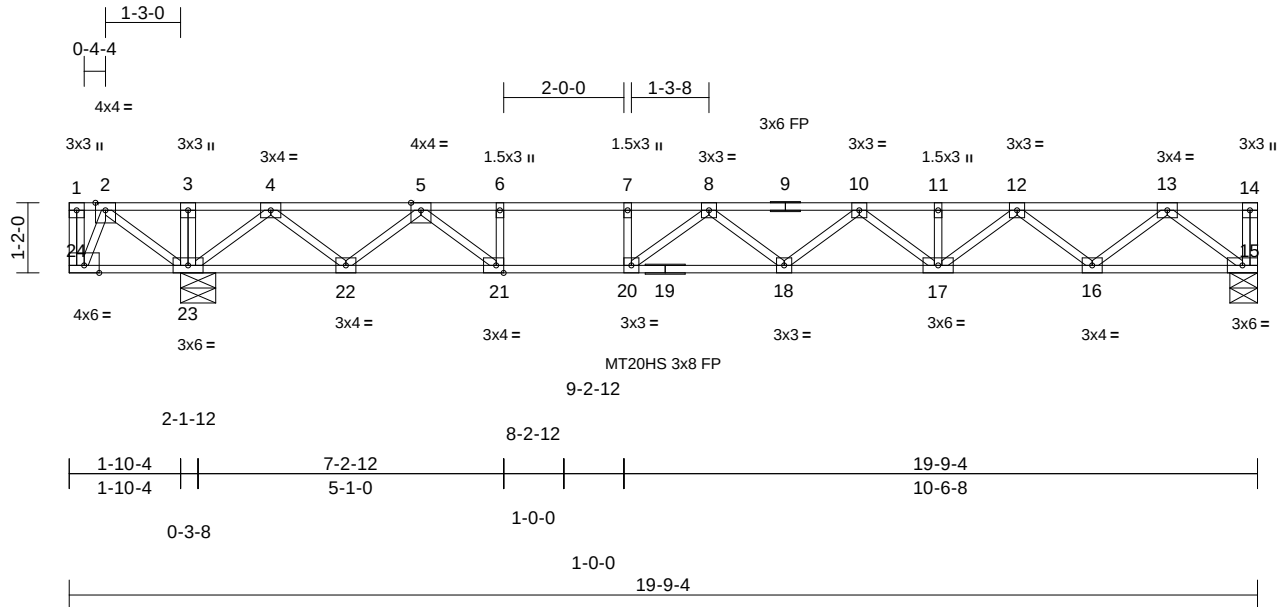
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2F24	Floor	2	1	Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:21
ID:BhD_FilW17SRq8pm9vVfbzvBRI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.3

Plate Offsets (X, Y): [21:0-1-8,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	0.61	Vert(LL)	-0.27	18-20	>783	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.37	18-20	>572	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.04	15	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* 9-14:2x4 SP No.2 (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. Except:
6-0-0 oc bracing: 23-24,22-23.

REACTIONS (size) 15=0-5-8, 23=0-7-0
Max Grav 15=632 (LC 4), 23=938 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-24=-136/0, 14-15=-26/0, 1-2=0/0,
2-3=0/341, 3-4=0/341, 4-5=-1103/0,
5-6=-2306/0, 6-7=-2306/0, 7-8=-2306/0,
8-10=-2585/0, 10-11=-2185/0, 11-12=-2185/0,
12-13=-1327/0, 13-14=0/0
BOT CHORD 23-24=-63/0, 22-23=-113/562, 21-22=0/1692,
20-21=0/2306, 18-20=0/2612, 17-18=0/2472,
16-17=0/1837, 15-16=0/789
WEBS 3-23=-79/0, 6-21=-379/0, 7-20=-41/175,
2-23=-351/0, 2-24=0/152, 4-23=-1020/0,
4-22=0/712, 5-22=-777/0, 5-21=0/886,
13-15=-990/0, 13-16=0/700, 12-16=-665/0,
12-17=0/444, 11-17=-50/0, 10-17=-366/0,
10-18=0/153, 8-18=-107/47, 8-20=-517/48

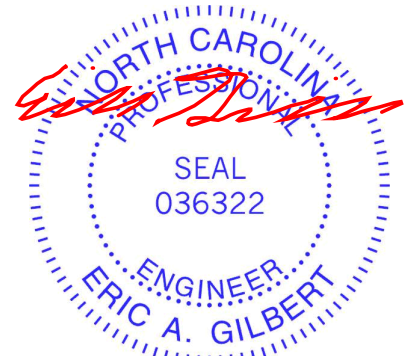
NOTES

- 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.
- 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: 15-24=-7, 1-14=-67
Concentrated Loads (lb)
Vert: 1=-133



May 28,2025

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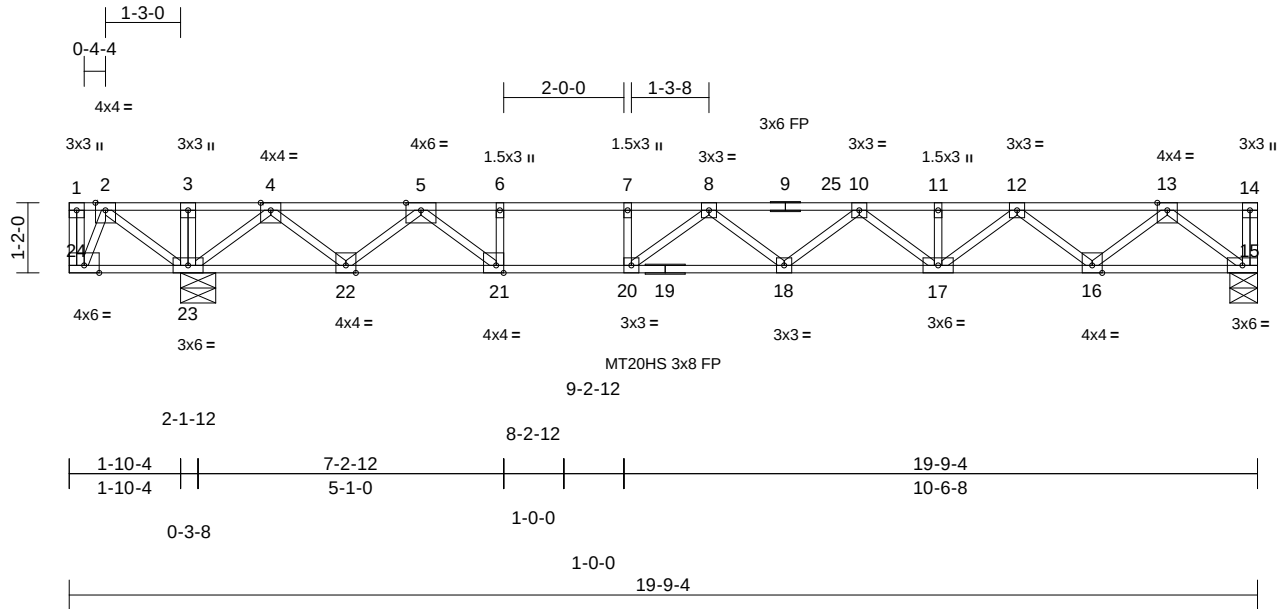
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2F25	Floor Girder	1	1	Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:22
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Page: 1



Scale = 1:38.3									
Plate Offsets (X, Y): [21:0-1-8, Edge]									
Loading	(psf)	Spacing	1-8-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.34 18-20	>626	480
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.46 18-20	>456	360
BCLL	0.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.05 15	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* 9-14:2x4 SP No.2 (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. Except:
6-0-0 oc bracing: 23-24,22-23.

REACTIONS (size) 15=0-5-8, 23=0-7-0
Max Grav 15=797 (LC 4), 23=1099 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-24=-103/0, 14-15=-33/0, 1-2=0/0, 2-3=0/310, 3-4=0/310, 4-5=-1480/0, 5-6=-2960/0, 6-7=-2960/0, 7-8=-2960/0, 8-10=-3283/0, 10-11=-2767/0, 11-12=-2767/0, 12-13=-1676/0, 13-14=0/0
BOT CHORD 23-24=-49/0, 22-23=-32/811, 21-22=0/2208, 20-21=0/2960, 18-20=0/3326, 17-18=0/3134, 16-17=0/2323, 15-16=0/996
WEBS 3-23=-97/0, 6-21=-466/0, 7-20=-59/211, 2-23=-331/0, 2-24=0/117, 4-23=-1265/0, 4-22=0/881, 5-22=-959/0, 5-21=0/1088, 13-15=-1249/0, 13-16=0/886, 12-16=-842/0, 12-17=0/567, 11-17=-63/0, 10-17=-468/0, 10-18=0/201, 8-18=-147/46, 8-20=-626/80

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.
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: 15-24=-8, 1-7=-83, 7-25=-83, 14-25=-83
Concentrated Loads (lb)
Vert: 1=-100



May 28,2025

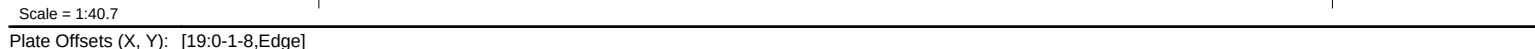
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

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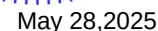
818 Soundside Road
Edenton, NC 27932

Structural, LLC, Thurmont, MD - 21788, Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:22 Page: 1
ID:ehsevcSoehPMAXWYOkEbQdzvFV4-RfC?PsB70Hg3NSoPanL8w3uITXBGKWRCDoI7J4zJC?f



LUMBER	
TOP CHORD	2x4 SP SS(flat) *Except* 7-12:2x4 SP No.2 (flat)
BOT CHORD	2x4 SP SS(flat) *Except* 16-13:2x4 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) 13=0-5-8, 21=0-7-0	
Max Grav 13=671 (LC 1), 21=665 (LC 1)	
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-21=-21/3, 12-13=-26/0, 1-2=-1/0, 2-3=-1389/0, 3-4=-2613/0, 4-5=-2613/0, 5-6=-2613/0, 6-8=-2863/0, 8-9=-2378/0, 9-10=-2378/0, 10-11=-1423/0, 11-12=0/0
BOT CHORD	20-21=0/835, 19-20=0/1984, 18-19=0/2613, 17-18=0/2921, 15-17=0/2716, 14-15=0/1981, 13-14=0/840
WEBS	4-19=-385/0, 5-18=-40/180, 2-21=-1046/0, 2-20=0/721, 3-20=-775/0, 3-19=0/893, 11-13=-1054/0, 11-14=0/760, 10-14=-725/0, 10-15=0/507, 9-15=-47/0, 8-15=-432/0, 8-17=0/200, 6-17=-152/0, 6-18=-512/39

- 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.

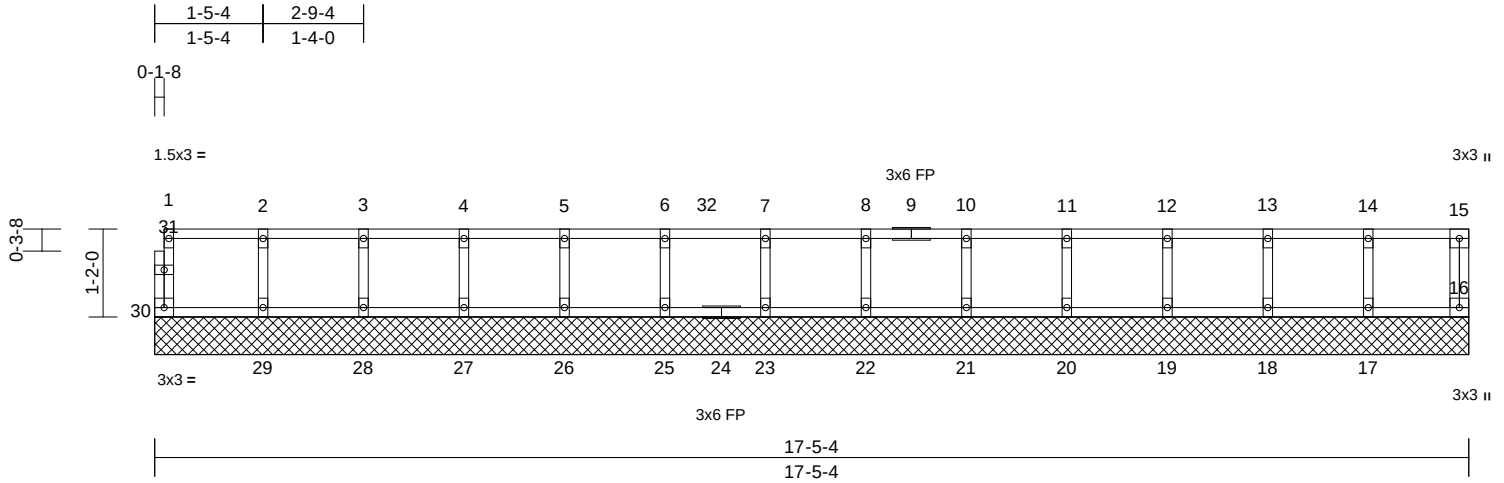


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2FGE4	Floor Supported Gable	1	1	Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:23
ID:dSrCBKIT5y6nv2t?6FFgM5y8MTt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:30.6

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
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999	244/190
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)

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, 25=17-5-4, 26=17-5-4, 27=17-5-4, 28=17-5-4, 29=17-5-4, 30=17-5-4
Max Grav 16=42 (LC 1), 17=94 (LC 1), 18=99 (LC 1), 19=98 (LC 1), 20=98 (LC 1), 21=99 (LC 1), 22=101 (LC 1), 23=100 (LC 1), 25=98 (LC 1), 26=98 (LC 1), 27=98 (LC 1), 28=97 (LC 1), 29=100 (LC 1), 30=41 (LC 1)

FORCES

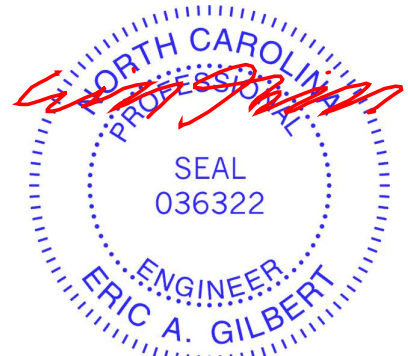
(lb) - Maximum Compression/Maximum Tension

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, 8-10=-8/0, 10-11=-8/0, 11-12=-8/0, 12-13=-8/0, 13-14=-8/0, 14-15=-8/0
BOT CHORD 29-30=0/8, 28-29=0/8, 27-28=0/8, 26-27=0/8, 25-26=0/8, 23-25=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 14-17=-86/0, 13-18=-90/0, 12-19=-89/0, 11-20=-89/0, 10-21=-90/0, 8-22=-92/0, 7-23=-92/0, 6-25=-89/0, 5-26=-89/0, 4-27=-89/0, 3-28=-89/0, 2-29=-91/0

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.
 - 7) CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard
- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 16-30=-7, 1-32=-67, 10-32=-69, 10-15=-67



May 28, 2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2F27	Floor	1	1	Job Reference (optional)

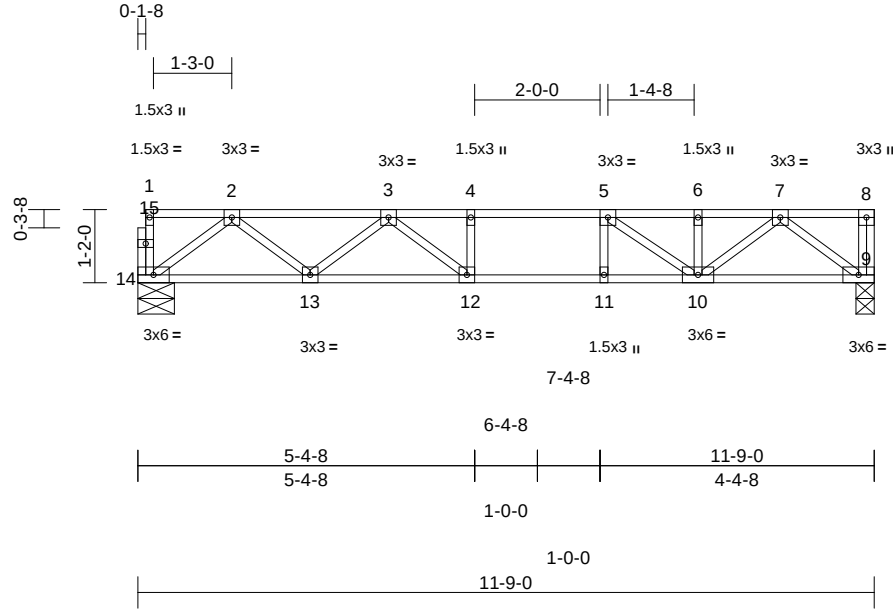
I73795626

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:22

Page: 1

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Scale = 1:36.8

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	0.37	Vert(LL)	-0.07	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.09	12-13	>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.

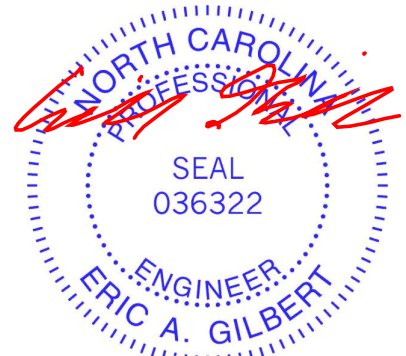
REACTIONS	(size) 9=0-3-8, 14=0-7-0
	Max Grav 9=422 (LC 1), 14=418 (LC 1)

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



May 28, 2025

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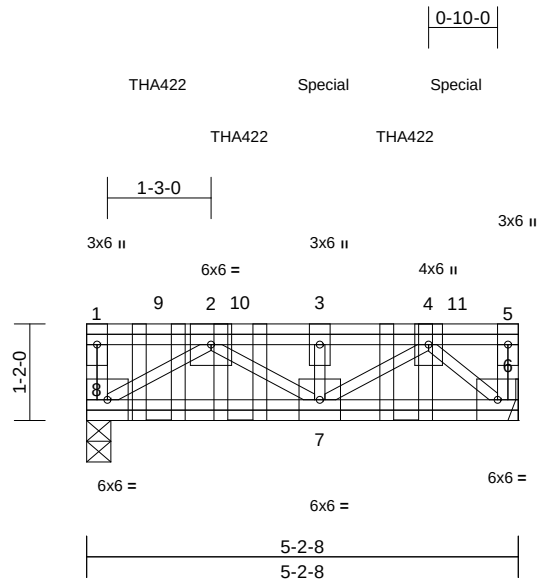
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2FG5	Floor Girder	1	1	173795627
Job Reference (optional)					

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:22
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Page: 1



Scale = 1:27.8

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	0.30	Vert(LL)	-0.01	7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.02	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							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)

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 6= Mechanical, 8=0-3-8
Max Grav 6=1494 (LC 1), 8=1211 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-8=-127/0, 5-6=-162/0, 1-2=0/0,
2-3=-1741/17, 3-4=-1741/17, 4-5=0/0
BOT CHORD 7-8=0/1596, 6-7=0/1370
WEBS 2-8=-1918/0, 2-7=-290/178, 3-7=-368/274,
4-7=-153/452, 4-6=-1896/0

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) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-10-4 from the left end to 3-10-4 to connect truss(es) to front face of top chord.
- 5) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 0-10-7 from the left end to connect truss(es) to back face of top chord, skewed 0.0 deg. to the right, sloping 0.0 deg. down.
- 6) Fill all nail holes where hanger is in contact with lumber.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 105 lb down and 467 lb up at 2-10-7, and 350 lb down and 74 lb up at 4-5-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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: 6-8=-7, 1-5=-67
Concentrated Loads (lb)
Vert: 3=-105 (B), 4=-778 (F), 9=-330 (B), 10=-778 (F), 11=-350 (B)



May 28, 2025

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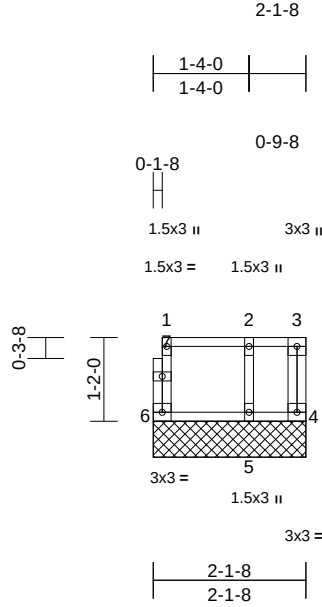
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2FGE5	Floor Supported Gable	1	1	Job Reference (optional)
					I73795628

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:23
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Page: 1



Scale = 1:32.1

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	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	4	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R						Weight: 13 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=35 (LC 1), 5=105 (LC 1), 6=60 (LC 1)

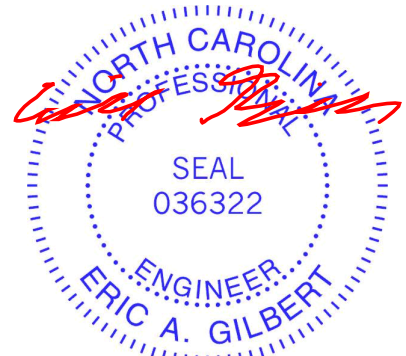
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-6=-55/0, 3-4=-27/0, 1-2=-9/0, 2-3=-9/0
BOT CHORD 5-6=0/9, 4-5=0/9
WEBS 2-5=-100/0

NOTES

- 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



May 28, 2025

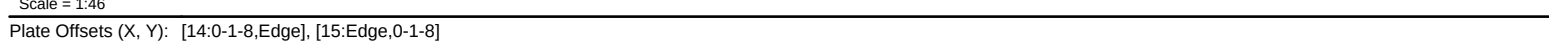
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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LUMBER		3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 775 lb uplift at joint 15.
TOP CHORD	2x4 SP No.2(flat)	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.
BOT CHORD	2x4 SP No.2(flat)	
WEBS	2x4 SP No.3(flat)	
OTHERS	2x4 SP No.3(flat)	
BRACING		5) CAUTION, Do not erect truss backwards.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	LOAD CASE(S) Standard
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc	

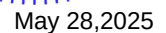
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-25=-29/0, 14-15=0/774, 1-2=-2/0,
2-3=-697/0, 3-4=-845/0, 4-6=-459/0,
6-7=0/547, 7-8=0/548, 8-9=-513/79,
9-10=-513/79, 10-11=-513/79,
11-12=-104/106, 12-13=0/915, 13-14=0/914

BOT CHORD 24-25=0/474, 23-24=0/894, 22-23=0/775,
21-22=-108/117, 19-21=-226/182,
18-19=-79/513, 17-18=-60/416,
16-17=-376/0, 15-16=-46/0

WEBS 7-21=-92/0, 9-19=-219/0, 10-18=-81/13,
13-16=-100/0, 2-25=-593/0, 2-24=0/291,
3-24=-255/0, 3-23=-100/0, 4-23=0/129,
4-22=-450/0, 6-22=0/479, 6-21=-652/0,
8-21=-547/0, 8-19=0/460, 11-18=-25/123,
11-17=-408/0, 12-17=0/452, 12-16=-734/0,
14-16=-1180/0

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

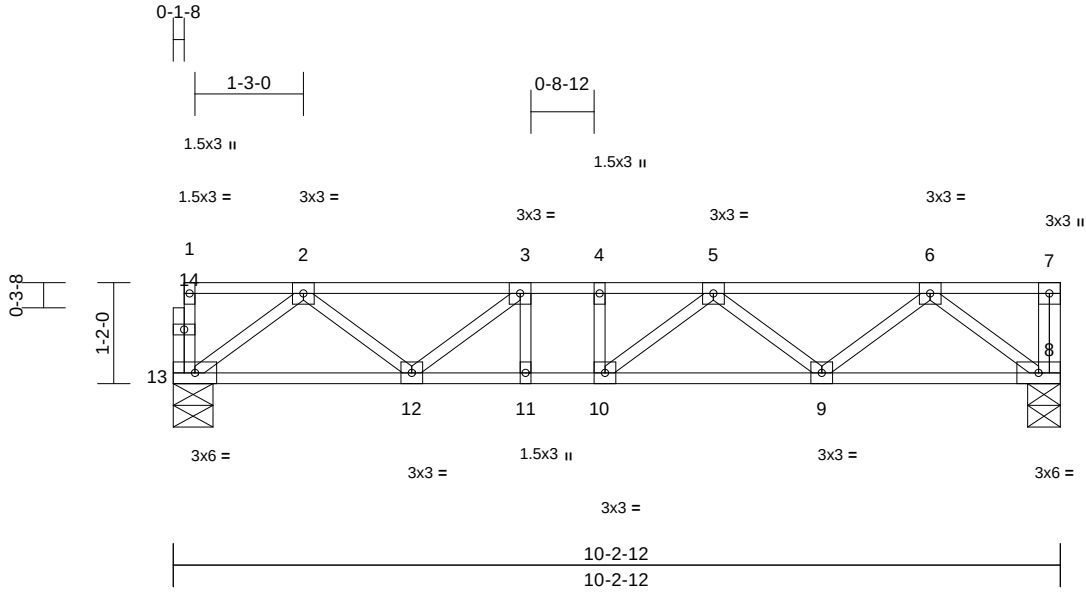


Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	
	1F6A	Floor	6	1		I73795631
Job Reference (optional)						

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:15
ID:Jtvz6U_rutuFPG4GwPJtIBzewVj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?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	0.23	Vert(LL)	-0.03	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.05	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 54 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.

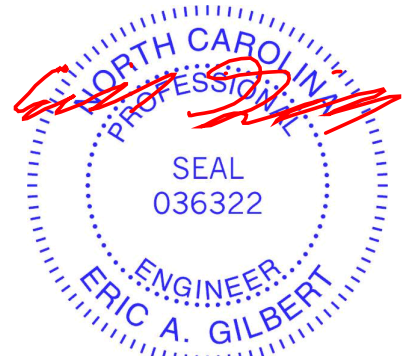
REACTIONS (size) 8=0-4-8, 13=0-5-8
Max Grav 8=439 (LC 1), 13=434 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-13=-27/0, 7-8=-31/0, 1-2=-2/0, 2-3=-789/0, 3-4=-1038/0, 4-5=-1038/0, 5-6=-791/0, 6-7=0/0
BOT CHORD 12-13=0/527, 11-12=0/1038, 10-11=0/1038, 9-10=0/1026, 8-9=0/527
WEBS 6-8=-661/0, 2-13=-659/0, 6-9=0/344, 2-12=0/341, 5-9=-306/0, 3-12=-319/0, 5-10=-100/163, 3-11=-56/70, 4-10=-40/22

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



May 28, 2025

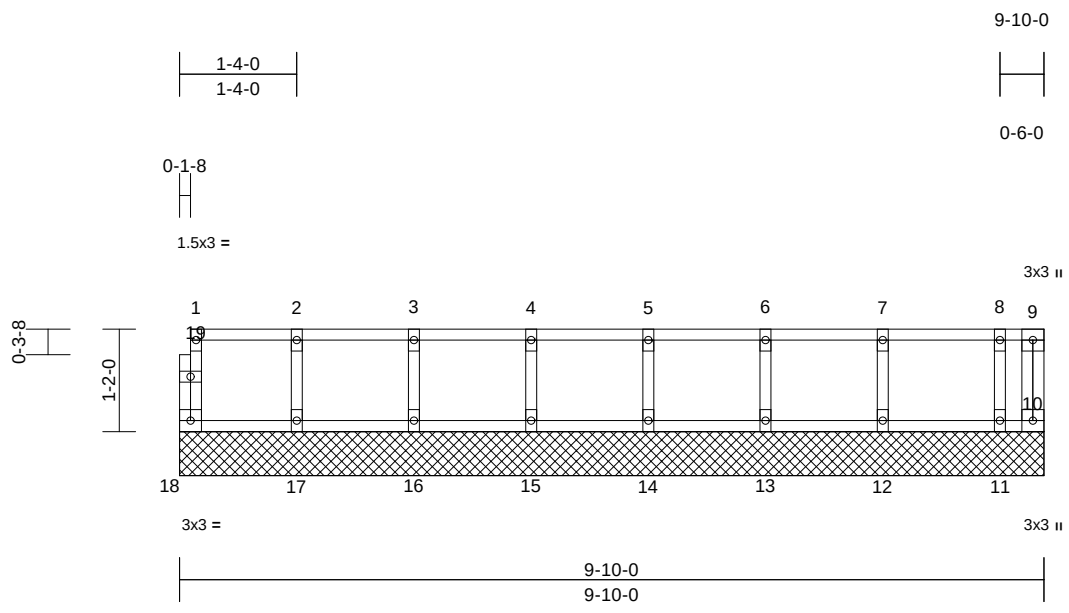
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcacompnents.com)

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795632
	1FGE3A	Floor Supported Gable	1	1	Job Reference (optional)	



Scale = 1:26.2

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	0.06	Vert(LL)	n/a	-	n/a	999	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)

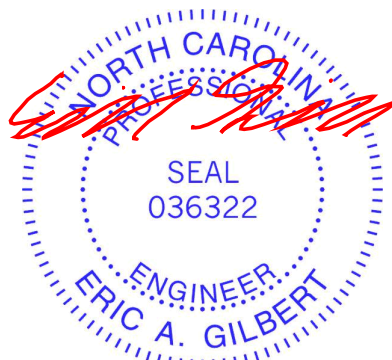
FORCES (lb) - Maximum Compression/Maximum Tension

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

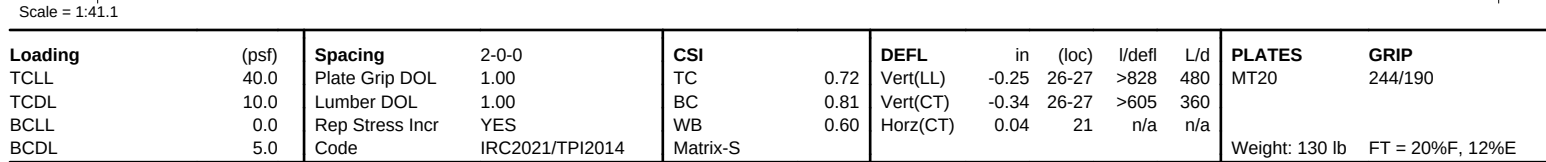
WEBS 2-17=-105/0, 3-16=-107/0, 4-15=-106/0, 5-14=-107/0, 6-13=-106/0, 7-12=-111/0, 8-11=-80/0

- NOTES**
- 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.



May 28,2025

Structural, LLC, Thurmont, MD - 21788, Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:20 Page: 1
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- 2) Refer to girder(s) for truss to truss connections.
- 3) 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.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10'-00" o/c and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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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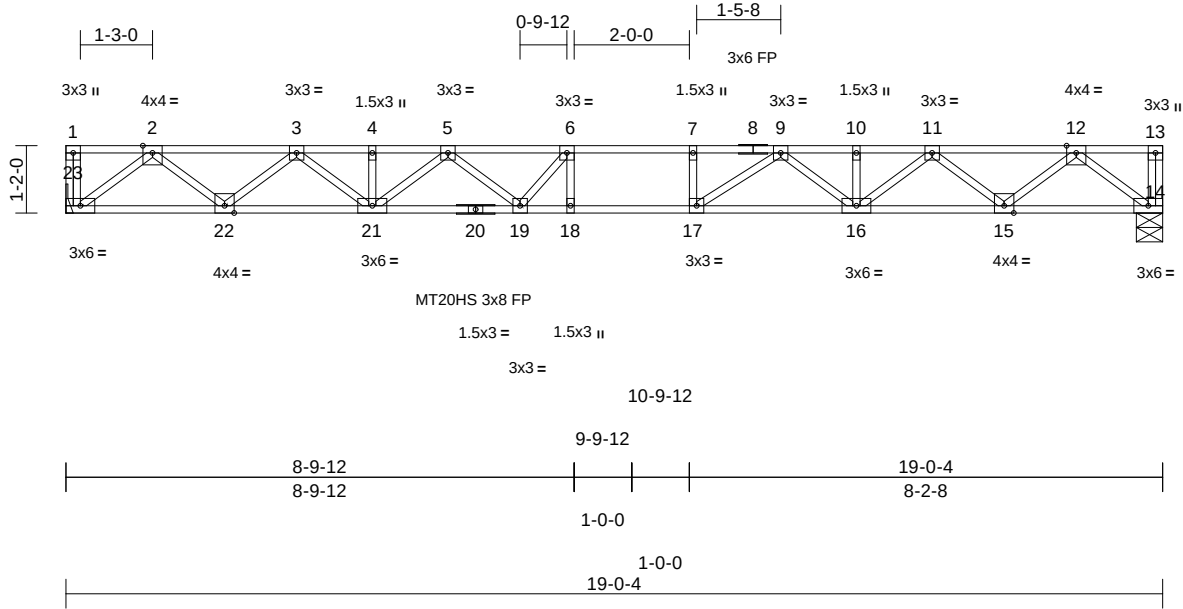
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795635
	2F11A	Floor	7	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:20
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Page: 1



Scale = 1:40

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	0.57	Vert(LL)	-0.31	18	>720	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.43	17-18	>525	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.07	14	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 97 lb	FT = 20%F, 12%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* 20-14:2x4 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, Except:
2-2-0 oc bracing: 19-21.

REACTIONS (size) 14=0-5-8, 23= Mechanical
Max Grav 14=825 (LC 1), 23=825 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-23=-32/0, 13-14=-31/0, 1-2=0/0,
2-3=-1759/0, 3-4=-2965/0, 4-5=-2965/0,
5-6=-3573/0, 6-7=-3675/0, 7-9=-3675/0,
9-10=-2964/0, 10-11=-2964/0, 11-12=-1759/0,
12-13=0/0

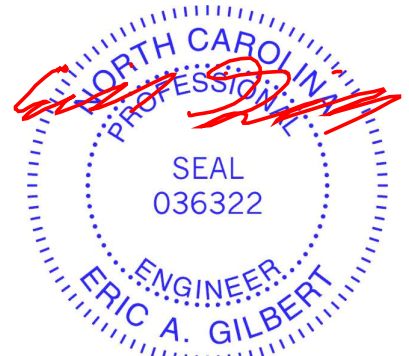
BOT CHORD 22-23=0/1034, 21-22=0/2456, 19-21=0/3375,
18-19=0/3675, 17-18=0/3675, 16-17=0/3362,
15-16=0/2455, 14-15=0/1035

WEBS 6-18=-201/160, 7-17=-219/0, 2-23=-1298/0,
2-22=0/943, 3-22=-908/0, 3-21=0/649,
4-21=-59/0, 5-21=-523/0, 5-19=0/405,
6-19=-447/153, 12-14=-1298/0, 12-15=0/943,
11-15=-905/0, 11-16=0/650, 10-16=-76/0,
9-16=-509/0, 9-17=0/623

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) The Fabrication Tolerance at joint 20 = 12%
- 4) Refer to girder(s) for truss to truss connections.
- 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



May 28, 2025

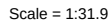
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

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Structural, LLC, Thurmont, MD - 21788, Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:23 Page: 1
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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.

- 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

May 28, 2025



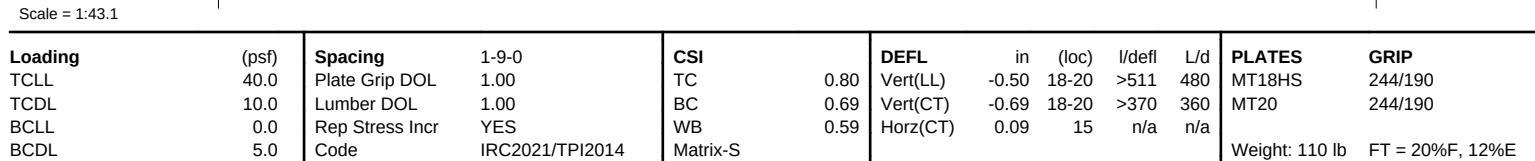
WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEL REFERENCE PAGE MIT-17-15169: 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building design, 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)



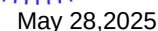
818 Soundside Road
Edenton, NC 27932

Structural, LLC, Thurmont, MD - 21788, Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:19 Page: 1
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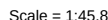


NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) The Fabrication Tolerance at joint 19 = 12%
- 4) Refer to girder(s) for truss to truss connections.
- 5) 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.



Structural, LLC, Thurmont, MD - 21788, Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:20 Page: 1
ID:1?wFX7hOeLmEuoJHl?Nn9v8MU5-RfC?PsB70Hg3NSqPnL8w3uITXbGKWRCDoI7J4zJC?f



LUMBER		3) One H2.5A Simpson Strong-Tie connectors
TOP CHORD	2x4 SP No.2(flat)	recommended to connect truss to bearing walls due to
BOT CHORD	2x4 SP SS(flat) *Except* 24-18:2x4 SP No.2	UPLIFT at jt(s) 18. This connection is for uplift only and
	(flat)	does not consider lateral forces.
WEBS	2x4 SP No.3(flat)	4) Recommend 2x6 strongbacks, on edge, spaced at
OTHERS	2x4 SP No.3(flat)	10-00-00 oc and fastened to each truss with 3-10d

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

REACTIONS	(size)	18=0-3-8, 21=0-3-8, 30=0-3-8
	Max Uplift	18=-152 (LC 3)
	Max Grav	18=240 (LC 4), 21=1472 (LC 1), 30=677 (LC 3)

Tension

TOP CHORD

1-30=-28/0, 17-18=-30/0, 1-2=-2/0,
2-3=-1402/0, 3-4=-2239/0, 4-5=-2239/0,
5-6=-2503/0, 6-7=-2282/0, 7-8=-1494/0,
8-9=-1494/0, 9-11=-193/61, 11-12=0/1798,
12-13=0/1797, 13-14=-68/1060,
14-15=-68/1060, 15-16=-292/461, 16-17=0/0

BOT CHORD

29-30=0/846, 28-29=0/1926, 27-28=0/2529,
26-27=0/2282, 25-26=0/2282, 23-25=0/2282
22-23=0/952, 21-22=-704/0, 20-21=-1430/0,
19-20=-732/289, 18-19=-219/266

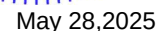
WEBS

6-26=-299/0, 7-25=0/304, 2-30=-1059/0,
2-29=0/724, 3-29=-683/0, 3-28=0/400,
4-28=-14/1, 5-28=-371/0, 5-27=-115/132,
6-27=-64/414, 12-21=-83/0, 16-18=-334/274,
16-19=-315/33, 15-19=0/353, 15-20=-556/0,
14-20=-80/0, 13-20=0/709, 13-21=-702/0,
11-21=-1377/0, 11-22=0/1048, 9-22=-997/0,
9-23=1377/0, 8-23=-44/135, 7-23=-149/0

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

- 3) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at j(s) 18. This connection is for uplift only and does not consider lateral forces.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION. Do not erect truss backwards.

LOAD CASE(S) Standard



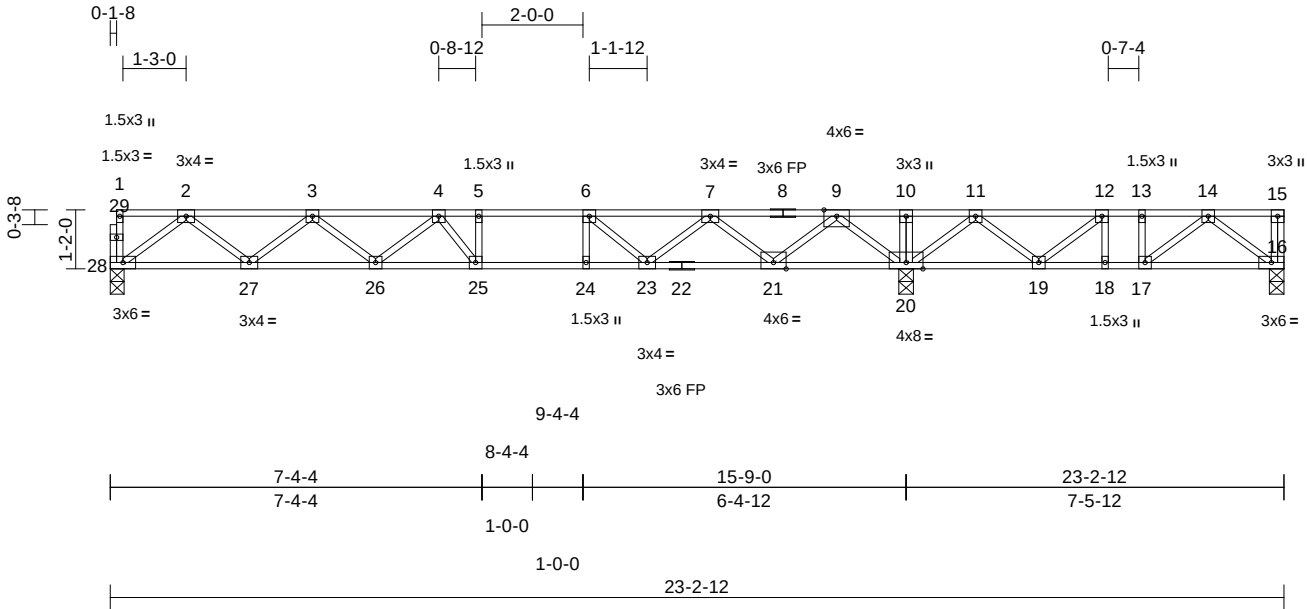
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2F16A	Floor	1	1	Job Reference (optional)
					I73795639



Scale = 1:45.6												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.19	25-26	>987	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.26	25-26	>720	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.03	20	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 118 lb	FT = 20%F, 12%E

LUMBER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP SS(flat) *Except* 22-16:2x4 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)	16=0-3-8, 20=0-3-8, 28=0-3-4
Max Uplift	16=-107 (LC 3)
Max Grav	16=314 (LC 4), 20=1620 (LC 1), 28=751 (LC 3)
FORCES	
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-28=-38/0, 15-16=-55/0, 1-2=-2/0, 2-3=-1509/0, 3-4=-2320/0, 4-5=-2366/0, 5-6=-2366/0, 6-7=-1789/0, 7-9=-495/40, 9-10=0/1681, 10-11=0/1681, 11-12=-213/805, 12-13=-445/438, 13-14=-445/438, 14-15=0/0
BOT CHORD	27-28=0/925, 26-27=0/2071, 25-26=0/2481, 24-25=0/2366, 23-24=0/2366, 21-23=0/1275, 20-21=-530/0, 19-20=-1131/0, 18-19=-438/445, 17-18=-438/445, 16-17=-171/330
WEBS	5-25=-115/125, 6-24=0/263, 10-20=-104/0, 2-28=-1158/0, 2-27=0/760, 3-27=-731/0, 3-26=0/324, 4-26=-223/0, 4-25=-370/161, 9-20=-1504/0, 9-21=0/1080, 7-21=-1031/0, 7-23=0/691, 6-23=-829/0, 11-20=-953/0, 14-16=-413/215, 11-19=0/582, 14-17=-341/147, 12-19=-608/0, 12-18=-27/157, 13-17=-44/140

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - 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) 16. 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



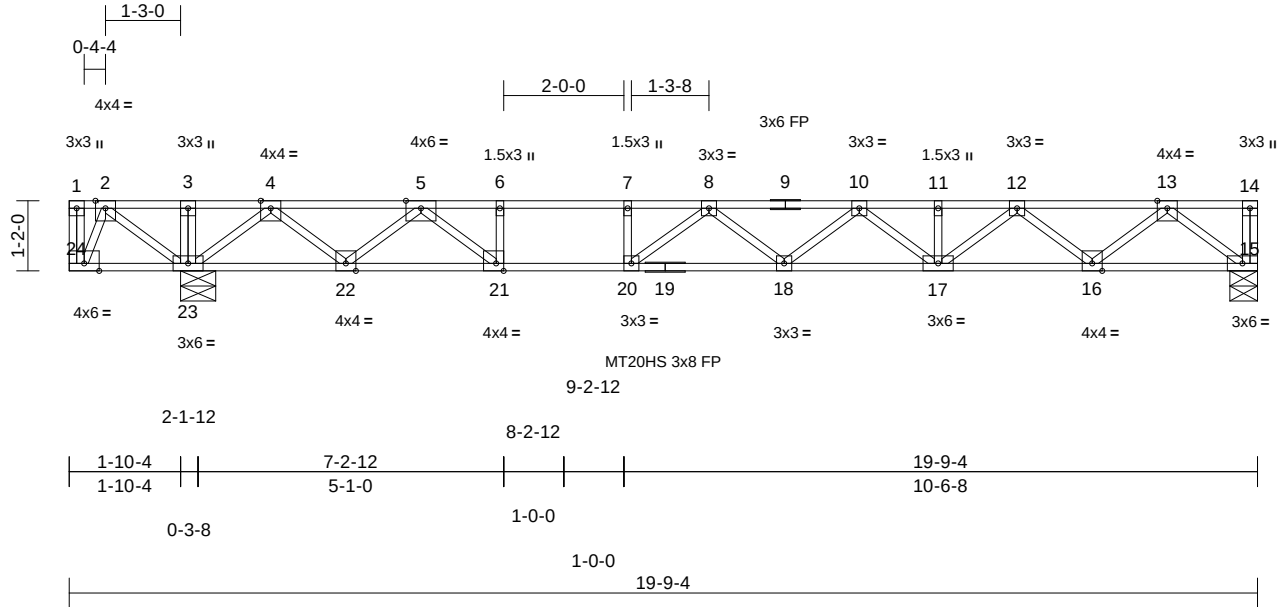
May 28,2025

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	2F24A	Floor	1	1	Job Reference (optional)

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:22
ID:BhD_FilW17SRq8pm9vVfbzvBRI-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.3

Plate Offsets (X, Y): [21:0-1-8,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)	-0.34	18-20	>626	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.46	18-20	>457	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.05	15	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* 9-14:2x4 SP No.2 (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. Except:
6-0-0 oc bracing: 23-24,22-23.

REACTIONS (size) 15=0-5-8, 23=0-7-0
Max Grav 15=791 (LC 4), 23=1157 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-24=-155/0, 14-15=-33/0, 1-2=0/0,
2-3=0/401, 3-4=0/401, 4-5=-1401/0,
5-6=-2899/0, 6-7=-2899/0, 7-8=-2899/0,
8-10=-3242/0, 10-11=-2739/0, 11-12=-2739/0,
12-13=-1662/0, 13-14=0/0

BOT CHORD 23-24=-73/0, 22-23=-117/726, 21-22=0/2135,
20-21=0/2899, 18-20=0/3278, 17-18=0/3099,
16-17=0/2302, 15-16=0/988

WEBS 3-23=-98/0, 6-21=-473/0, 7-20=-53/217,
2-23=-415/0, 2-24=0/174, 4-23=-1272/0,
4-22=0/888, 5-22=-969/0, 5-21=0/1104,
13-15=-1240/0, 13-16=0/877, 12-16=-833/0,
12-17=0/558, 11-17=-63/0, 10-17=-460/0,
10-18=0/194, 8-18=-137/56, 8-20=-642/65

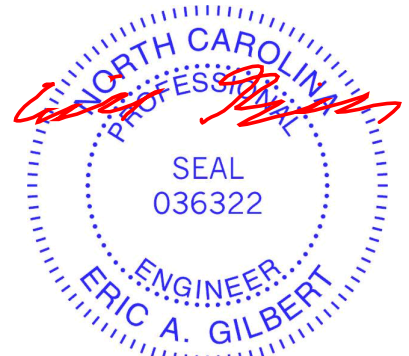
NOTES

- 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.
- 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: 15-24=-8, 1-14=-83
Concentrated Loads (lb)
Vert: 1=-152



May 28,2025

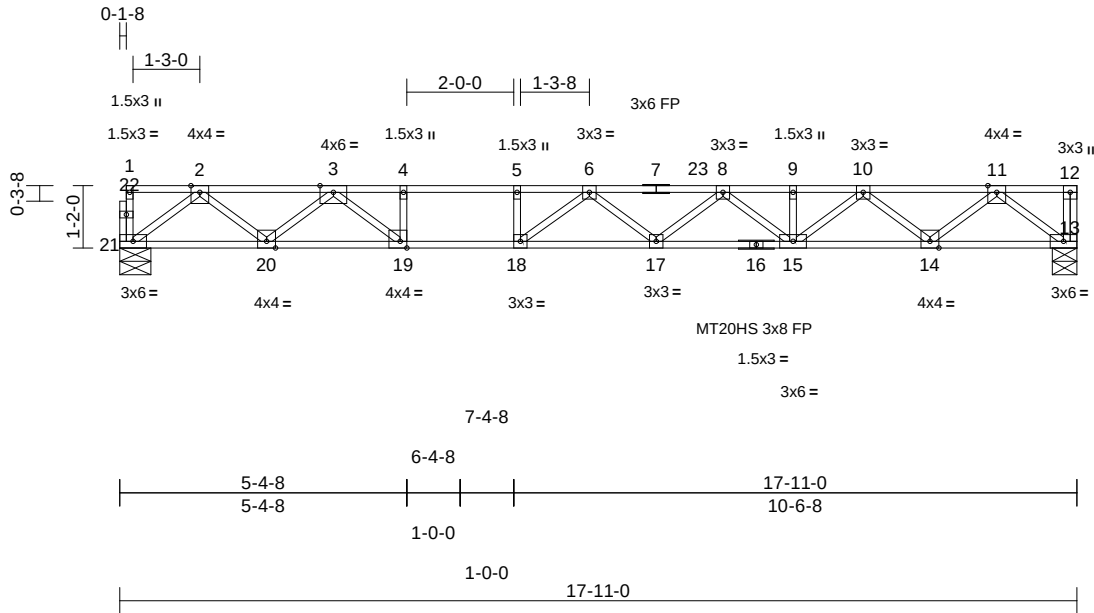
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

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Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	I73795641
	2F26A	Floor	1	1	Job Reference (optional)	



Scale = 1:43.1									
Plate Offsets (X, Y): [19:0-1-8,Edge]									
Loading	(psf)	Spacing	1-8-0	CSI		DEFL	in	(loc)	l/defl
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.34	17-18	>616
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.49	17-18	>431
BCLL	0.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.06	13	n/a
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S					
							PLATES	GRIP	
							MT20HS	187/143	
							MT20	244/190	
							Weight: 90 lb	FT = 20%F, 12%E	

LUMBER

TOP CHORD 2x4 SP SS(flat) *Except* 7-12:2x4 SP No.2 (flat)

BOT CHORD 2x4 SP SS(flat) *Except* 16-13:2x4 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) 13=0-5-8, 21=0-7-0

Max Grav 13=824 (LC 1), 21=818 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

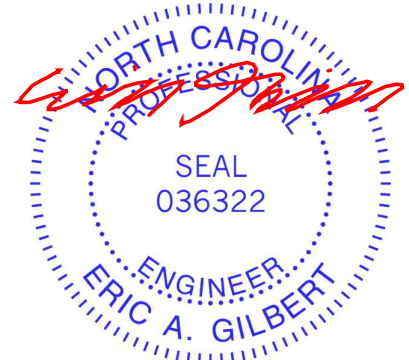
TOP CHORD 1-21=-27/3, 12-13=-33/0, 1-2=-2/0, 2-3=-1704/0, 3-4=-3180/0, 4-5=-3180/0, 5-6=-3180/0, 6-8=-3475/0, 8-9=-2901/0, 9-10=-2901/0, 10-11=-1743/0, 11-12=0/0

BOT CHORD 20-21=0/1025, 19-20=0/2428, 18-19=0/3180, 17-18=0/3544, 15-17=0/3302, 14-15=0/2422, 13-14=0/1031

WEBS 4-19=-461/0, 5-18=-61/202, 2-21=-1285/0, 2-20=0/883, 3-20=-943/0, 3-19=0/1069, 11-13=-1293/0, 11-14=0/927, 10-14=-884/0, 10-15=0/612, 9-15=-61/0, 8-15=-512/0, 8-17=0/233, 6-17=-179/2, 6-18=-605/83

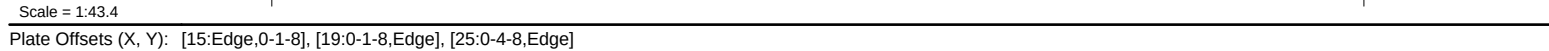
- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - The Fabrication Tolerance at joint 16 = 12%
 - Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the 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: 13-21=-8, 1-5=-83, 5-23=-91, 12-23=-83



May 28,2025

Structural, LLC, Thurmont, MD - 21788, Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:19 Page: 1
ID:Jztv6U_rutuFPG4GwPjTlBzewVj-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?i



LUMBER		3) Bearing at joint(s) 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
TOP CHORD	2x4 SP No.2(flat)	
BOT CHORD	2x4 SP No.2(flat) *Except* 22-15:2x4 SP SS (flat)	4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 796 lb uplift at joint 15.
WEBS	2x4 SP No.3(flat)	
OTHERS	2x4 SP No.3(flat)	
BRACING		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.
TOP CHORD	Structural wood sheathing directly applied, except end verticals.	6) CAUTION, Do not erect truss backwards.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 16-17,15-16.	LOAD CASE(S) Standard
REACTIONS	(size) 15= Mechanical, 16=0-4-8, 25=0-3-8	
	Max Uplift 15=-796 (LC 3)	
	Max Grav 15=-122 (LC 4), 16=1833 (LC 1), 25=670 (LC 3)	
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-25=-28/0, 14-15=-35/0, 1-2=-2/0, 2-3=-1382/0, 3-4=-2202/0, 4-5=-2202/0, 5-6=-2443/0, 6-7=-2196/0, 7-8=-2196/0, 8-10=-858/0, 10-11=0/658, 11-12=0/658, 12-13=0/1887, 13-14=0/0	
BOT CHORD	24-25=0/836, 23-24=0/1897, 21-23=0/2485, 20-21=0/2196, 19-20=0/2196, 18-19=0/1540, 17-18=0/239, 16-17=-1887/0, 15-16=-826/0	
WEBS	6-20=-288/0, 7-19=-326/0, 12-16=-963/0, 2-25=-1046/0, 2-24=0/711, 3-24=-671/0, 3-23=0/389, 4-23=-12/0, 5-23=-361/0, 5-21=-117/130, 6-21=-57/414, 13-16=-1396/0, 13-15=0/1157, 8-19=0/901, 8-18=-889/0, 10-18=0/806, 10-17=-1143/0, 11-17=-77/6, 12-17=0/1475	

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)

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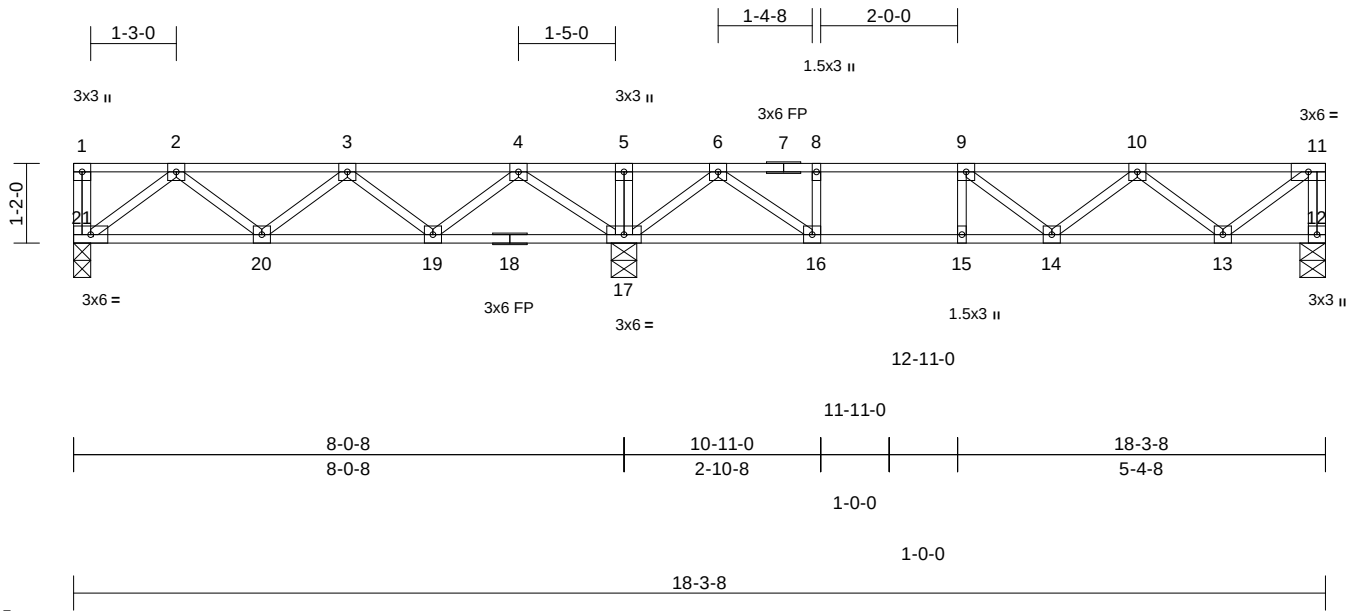
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F26A	Floor	12	1	Job Reference (optional)

I73795648

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:17
ID:fXB0_hEqIRbRTVQ0EDjc8WzeweR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

Page: 1



Scale = 1:33.7

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	0.47	Vert(LL)	-0.10	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.13	14-15	>944	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	12	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.

REACTIONS (size) 12=0-4-8, 17=0-4-8, 21=0-3-0
Max Grav 12=450 (LC 4), 17=811 (LC 1),
21=360 (LC 8)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-21=-33/0, 11-12=-443/0, 1-2=0/0,
2-3=-594/0, 3-4=-642/0, 4-5=-96/308,
5-6=-97/307, 6-8=-1027/0, 8-9=-1027/0,
9-10=-1014/0, 10-11=-481/0
BOT CHORD 20-21=0/419, 19-20=0/746, 17-19=0/506,
16-17=0/555, 15-16=0/1027, 14-15=0/1027,
13-14=0/907, 12-13=0/0
WEBS 5-17=-133/0, 8-16=-263/0, 9-15=-121/0,
2-21=-526/0, 2-20=0/229, 3-20=-197/0,
3-19=-223/0, 4-19=0/256, 4-17=-581/0,
6-17=-642/0, 6-16=0/619, 9-14=-51/45,
10-14=0/139, 10-13=-556/0, 11-13=0/603

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.

LOAD CASE(S) Standard



May 28,2025

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)

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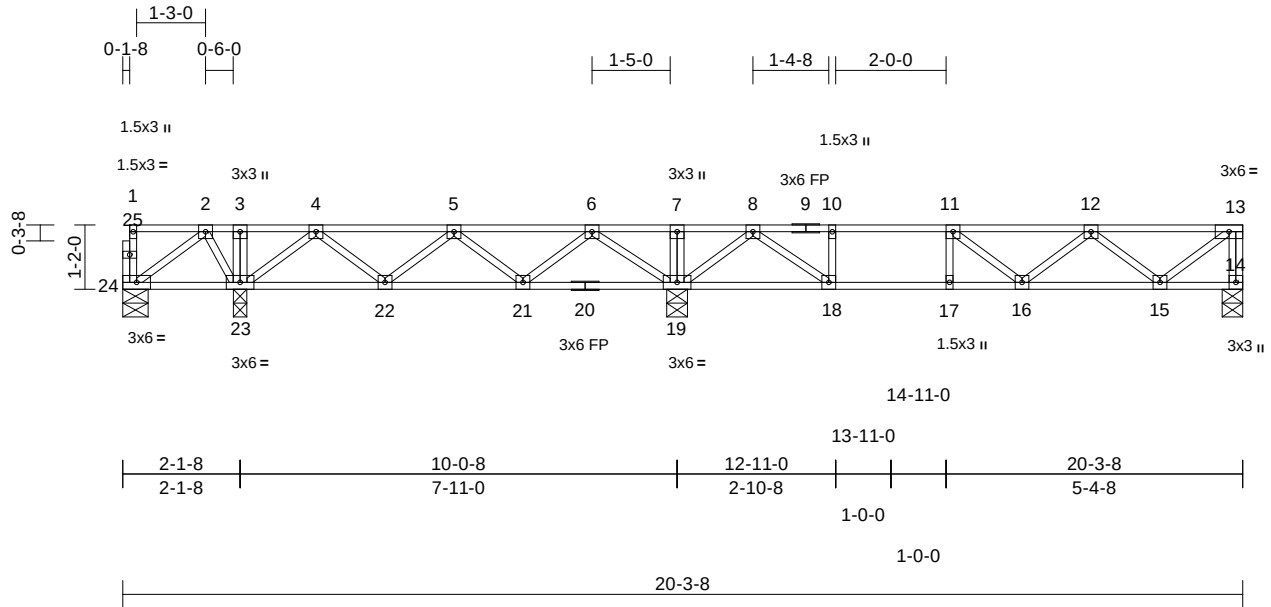
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F4A	Floor	1	1	Job Reference (optional)

I73795649

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.20 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:14
ID:HxEaX6xiVZ6c73kSTFIlyzewg6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:41.7

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	0.52	Vert(LL)	-0.09	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.13	16-17	>961	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.01	14	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 10-0-0 oc
 bracing, Except:
 6-0-0 oc bracing: 23-24.

REACTIONS (size) 14=0-4-8, 19=0-4-8, 23=0-2-15,
 24=0-5-8
 Max Uplift 24=-171 (LC 4)
 Max Grav 14=452 (LC 5), 19=751 (LC 4),
 23=726 (LC 12), 24=19 (LC 5)

FORCES

(lb) - Maximum Compression/Maximum
 Tension
 TOP CHORD 1-24=-43/0, 13-14=-444/0, 1-2=-3/0,
 2-3=0/406, 3-4=0/406, 4-5=-322/0,
 5-6=-520/0, 6-7=-137/276, 7-8=-137/276,
 8-10=-1035/0, 10-11=-1035/0, 11-12=-1019/0,
 12-13=-482/0
 BOT CHORD 23-24=-242/0, 22-23=0/85, 21-22=0/549,
 19-21=0/457, 18-19=0/566, 17-18=0/1035,
 16-17=0/1035, 15-16=0/910, 14-15=0/0
 WEBS 3-23=-56/0, 7-19=-131/0, 10-18=-259/0,
 11-17=-116/0, 2-24=0/304, 2-23=-324/0,
 4-23=-608/0, 4-22=0/320, 5-22=-295/0,
 5-21=-148/9, 6-21=0/183, 6-19=-497/0,
 8-19=-637/0, 8-18=0/608, 11-16=-60/34,
 12-16=0/141, 12-15=-558/0, 13-15=0/605

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 (=) MT20 unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 23.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 24.
- 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

May 28, 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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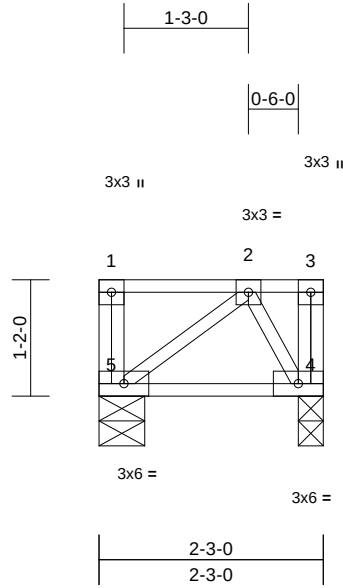
Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795650
	1F29	Floor	1	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.20 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:17

Page: 1

ID: _UIIUtYKjHZ1Lw1hMES6JozCOvI-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f



Scale = 1:23.1

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	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.05	Vert(CT)	0.00	4-5	>999	360	
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a	
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P						Weight: 16 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
2-3-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 4=0-3-0, 5=0-5-8
Max Grav 4=110 (LC 1), 5=110 (LC 1)

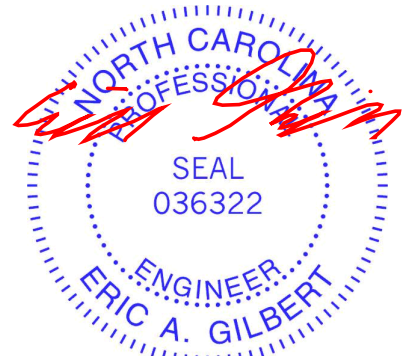
FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-5=-57/0, 3-4=-4/0, 1-2=0/0, 2-3=0/0
BOT CHORD 4-5=0/57
WEBS 2-5=-72/0, 2-4=-111/0

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.

LOAD CASE(S) Standard



May 28,2025

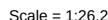
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcacompnents.com)

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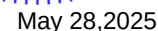
818 Soundside Road
Edenton, NC 27932

Structural, LLC, Thurmont, MD - 21788, Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:17 Page: 1
ID: PJATjNt01pMW qvx2SHTuzE 53-RfC?PsB70Ha3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f



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.



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 DS8-22** available from Truss Plate Institute (www.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcacomponents.com)

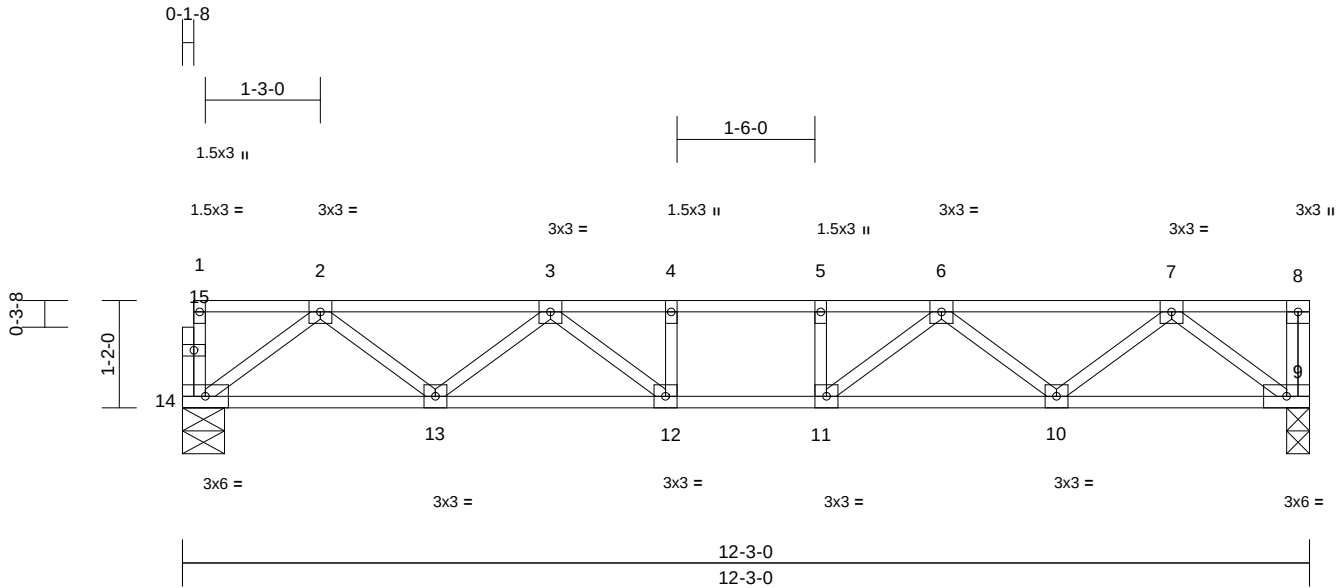
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor
	1F28A	Floor	10	1	173795652
Job Reference (optional)					

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:17
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Page: 1



Scale = 1:25

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	-0.08	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.10	10-11	>999	360	
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.03	9	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 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=-36/0, 8-9=-40/0, 1-2=-2/0, 2-3=-1265/0,
3-4=-1873/0, 4-5=-1873/0, 5-6=-1873/0,
6-7=-1266/0, 7-8=0/0
BOT CHORD 13-14=0/805, 12-13=0/1691, 11-12=0/1873,
10-11=0/1690, 9-10=0/806
WEBS 7-9=-1011/0, 2-14=-1007/0, 7-10=0/599,
2-13=0/599, 6-10=-553/0, 3-13=-554/0,
6-11=0/421, 3-12=0/421, 4-12=-193/0,
5-11=-193/0

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



May 28,2025

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)

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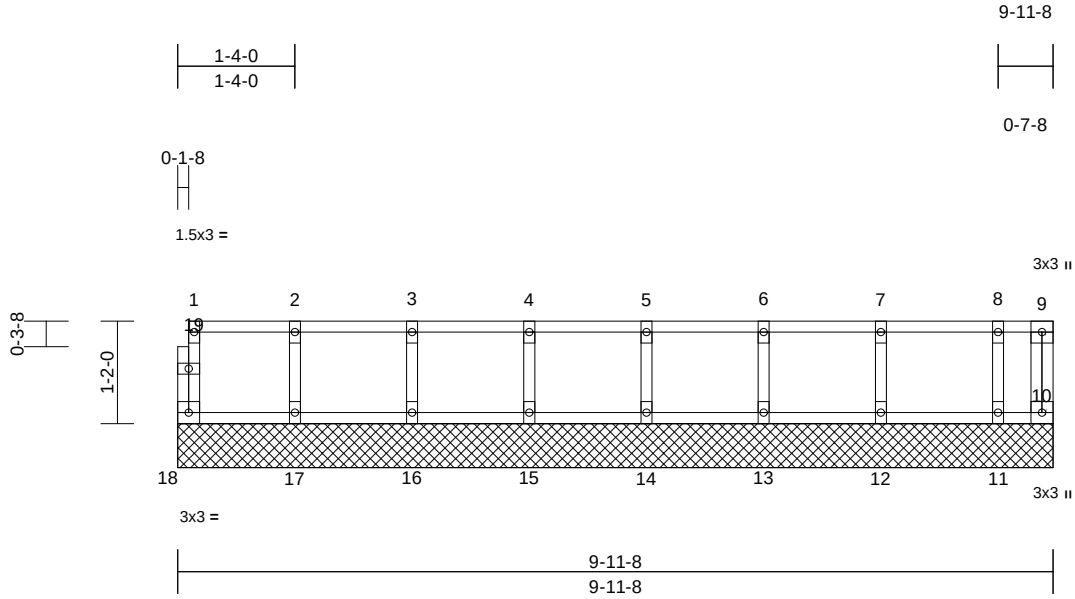
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Stonehaven Rev 2-EL-6,7-Floor	173795653
	1F28AGE	Floor Supported Gable	1	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Wed May 28 11:18:17
ID:5FzZask?jR3dFnou3NnnoZzE_7q-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:26.2

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	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	10	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)

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)

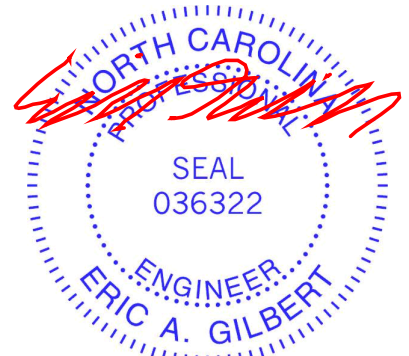
FORCES (lb) - Maximum Compression/Maximum Tension

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.

LOAD CASE(S) Standard



May 28,2025

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

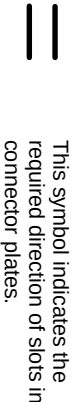
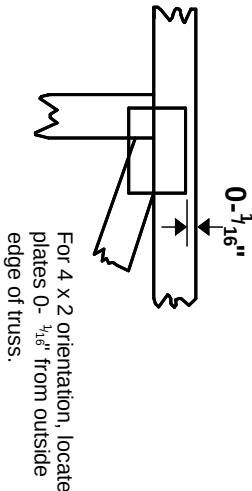
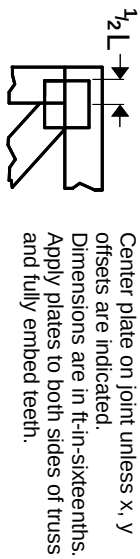
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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)

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Symbols

PLATE LOCATION AND ORIENTATION



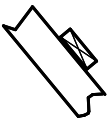
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

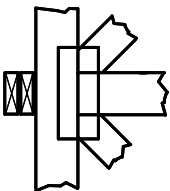
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

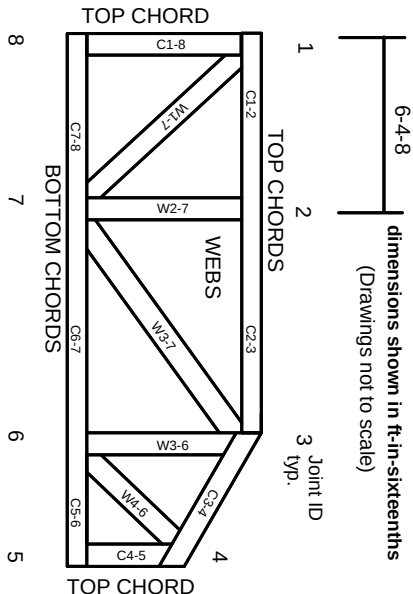
BEARING



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/TP1.1: 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 1 section 6.3. These truss designs rely on lumber values established by others.

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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.

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