

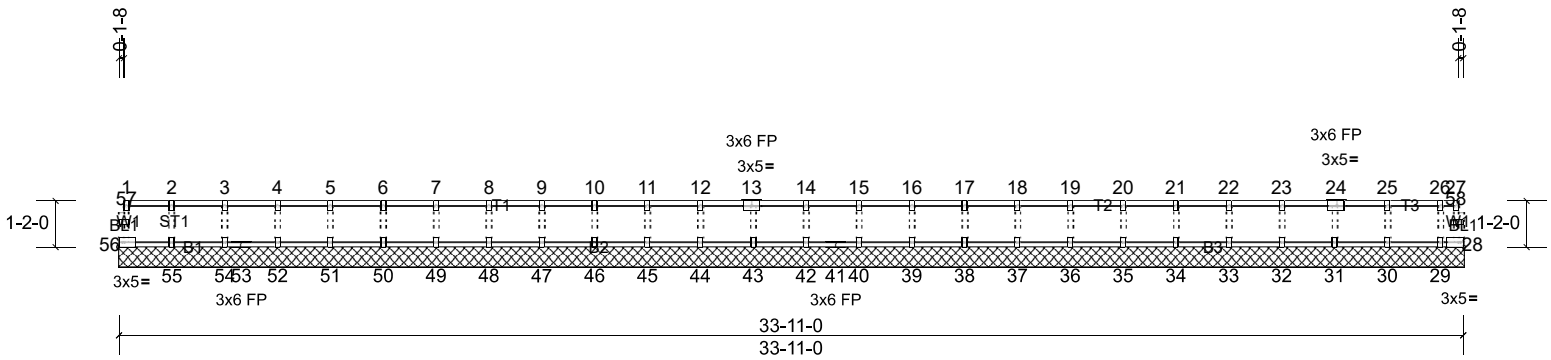
Job 24050001-B	Truss F101	Truss Type Floor Supported Gable	Qty 1	Ply 1	Lincoln A GRH-2nd Floor-Lincoln A GRH Job Reference (optional)
-------------------	---------------	-------------------------------------	----------	----------	---

Carter Components, Sanford, NC, user

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:13

Page: 1

ID:aA99j1O?PjI?hSUDbFnR0yzFcv-a-edSDS5skgthVlgNNkfRABkozCjBnXtZlkCcv2NzFZzm



Scale = 1:58.1

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a	
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 140 lb FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS All bearings 33-11-0.

(lb) - Max Grav All reactions 250 (lb) or less at joint
 (s) 28, 29, 30, 31, 32, 33, 34, 35,
 36, 37, 38, 39, 40, 42, 43, 44, 45,
 46, 47, 48, 49, 50, 51, 52, 54, 55,
 56

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

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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

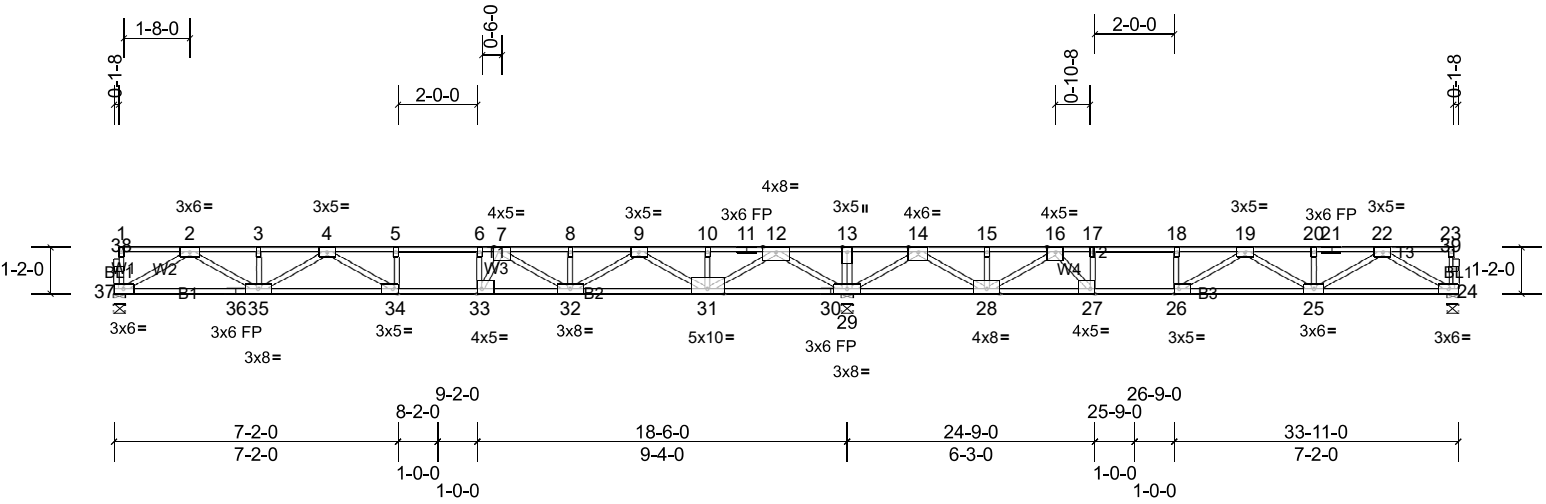
Job 24050001-B	Truss F102	Truss Type Floor	Qty 7	Ply 1	Lincoln A GRH-2nd Floor-Lincoln A GRH Job Reference (optional)
-------------------	---------------	---------------------	----------	----------	---

Carter Components, Sanford, NC, user

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:13

Page: 1

ID:A99j1O?PjI?hSUDbFnR0yzFcv-aedSDS5skgthVlgNNkFRABkooejz5Xh3kCcv2NzFZzm



Scale = 1:58.1

Plate Offsets (X, Y): [26:0-1-8,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [34:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.26	33-34	>838	360
TCDL	10.0	Lumber DOL	1.00	BC	0.96	Vert(CT)	-0.34	33-34	>639	240
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.06	24	n/a	n/a
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH						
										Weight: 169 lb FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1(flat) *Except* T3:2x4 SP No.2 (flat), T2:2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* B3:2x4 SP No.1 (flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (lb/size) 24=619/0-3-8, (min. 0-1-8),
29=2247/0-3-8, (min. 0-1-8),
37=825/0-3-8, (min. 0-1-8)
Max Grav 24=730 (LC 4), 29=2247 (LC 1),
37=863 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2308/0, 3-4=-2308/0, 4-5=-3258/0,
5-6=-3258/0, 6-7=-3258/0, 7-8=-2675/0,
8-9=-2675/0, 9-10=-775/471,
10-11=-775/471, 11-12=-775/471,
12-13=0/3083, 13-14=0/3083,
14-15=-1027/1309, 15-16=-1027/1309,
16-17=-2246/459, 17-18=-2246/459,
18-19=-2246/459, 19-20=-1866/0,
20-21=-1866/0, 21-22=-1866/0
BOT CHORD 36-37=0/1340, 35-36=0/1340, 34-35=0/2928,
33-34=0/3258, 32-33=0/3134,
31-32=-108/1866, 30-31=-1261/0,
29-30=-1261/0, 28-29=-1852/0,
27-28=-860/1785, 26-27=-459/2246,
25-26=-87/2267, 24-25=0/1120
WEBS 6-33=-564/0, 17-27=-686/0, 22-24=-1291/0,
22-25=-18/870, 19-25=-469/156,
19-26=-577/0, 14-29=-1826/0, 14-28=0/1491,
16-28=-1114/0, 16-27=0/1171, 2-37=-1545/0,
2-35=0/1130, 4-35=-724/0, 4-34=-103/515,
12-29=-2107/0, 12-31=0/1743, 9-31=-1344/0,
9-32=0/1018, 7-32=-675/0, 7-33=0/769

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

- All plates are 1.5x3 MT20 unless otherwise indicated.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

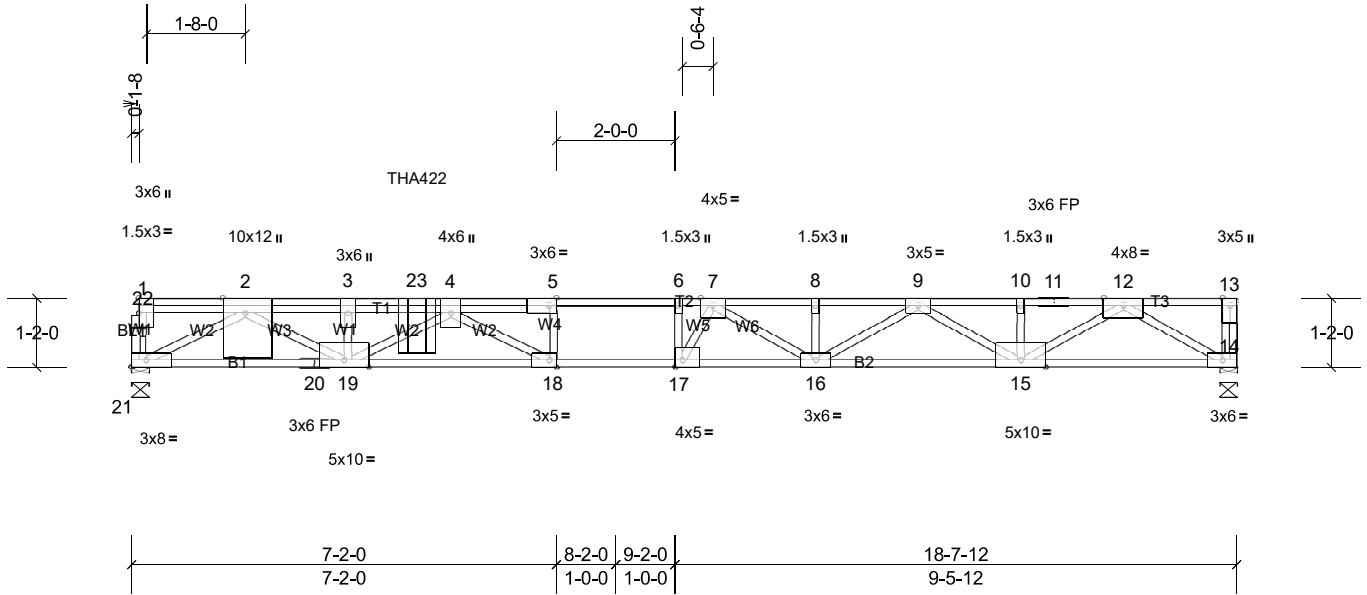
Job 24050001-B	Truss F103	Truss Type Floor Girder	Qty 1	Ply 1	Lincoln A GRH-2nd Floor-Lincoln A GRH Job Reference (optional)
-------------------	---------------	----------------------------	----------	----------	---

Carter Components, Sanford, NC, user

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:14

Page: 1

ID:2NjYwNPdA1QsJc3Q8ylgZAzFcvZ-6q0bfRtMRApMMqyZINyQjLxLzG8muzsMTapzFZl



Scale = 1:38.9

Plate Offsets (X, Y): [2:0-3-0,Edge], [5:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [22:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP		
TCLL	40.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.36	17-18	>617	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.49	17-18	>450	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.09	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH								
										Weight: 104 lb	FT = 20%F, 11%E	

LUMBER
TOP CHORD 2x4 SP No.2(flat) *Except* T2:2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.2(flat) *Except* B2:2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat) *Except* W3:2x4 SP No.2 (flat)
OTHERS 2x4 SP No.3(flat)

6) Fill all nail holes where hanger is in contact with lumber.
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00,
Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 14-21=-10, 1-13=-100
Concentrated Loads (lb)
Vert: 23=-592

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 14=1163/0-3-8, (min. 0-1-8),
21=1447/0-3-8, (min. 0-1-8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4594/0, 3-23=-4594/0, 4-23=-4594/0,
4-5=-5848/0, 5-6=-5842/0, 6-7=-5842/0,
7-8=-5221/0, 8-9=-5221/0, 9-10=-3289/0,
10-11=-3289/0, 11-12=-3289/0
BOT CHORD 20-21=0/2424, 19-20=0/2424, 18-19=0/5879,
17-18=0/5842, 16-17=0/5704, 15-16=0/4400,
14-15=0/1845
WEBS 5-18=-260/258, 6-17=-649/236,
2-21=-2755/0, 2-19=0/2494, 3-19=-459/0,
4-19=-1476/0, 4-18=-664/737,
12-14=-2134/0, 12-15=0/1686, 9-15=-1296/0,
9-16=0/959, 7-16=-795/0, 7-17=-355/895

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.
5) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 4-9-12 from the left end to connect truss(es) F114 (1 ply 2x4 SP) to front face of top chord.

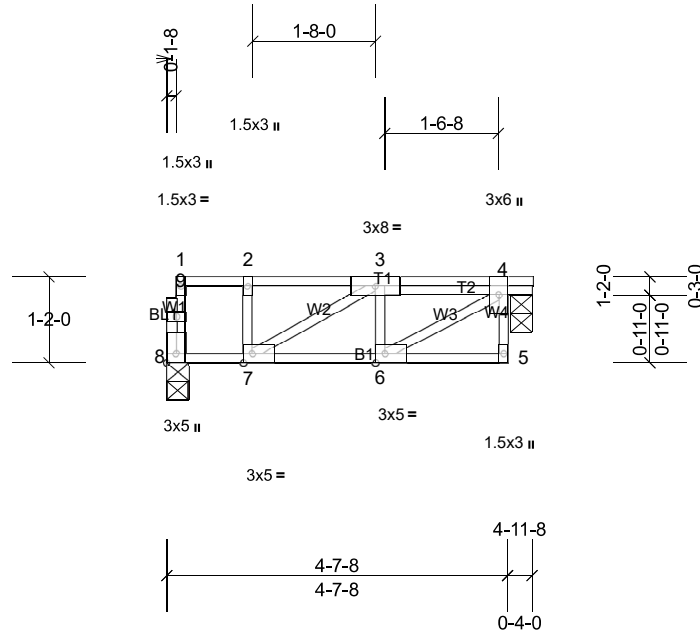
Job 24050001-B	Truss F104	Truss Type Floor	Qty 3	Ply 1	Lincoln A GRH-2nd Floor-Lincoln A GRH Job Reference (optional)
-------------------	---------------	---------------------	----------	----------	---

Carter Components, Sanford, NC, user

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:14

Page: 1

ID:2NjYwNPdA1QsJc3Q8ylgZAZzFcvZ-6q0bfRtMRApMMqyZINyQjxL1w7NrGISuzsMTapzFZzl



Scale = 1:31.3

Plate Offsets (X, Y): [6:0-1-8,Edge], [7:0-1-8,Edge], [8:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.53	Vert(LL)	-0.06	6-7	>859	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.09	6-7	>619	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 29 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=244/0-3-8, (min. 0-1-8),
 8=238/0-3-8, (min. 0-1-8)

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

TOP CHORD 3-4=-336/0
 BOT CHORD 6-7=0/335
 WEBS 4-6=0/388, 3-7=-377/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

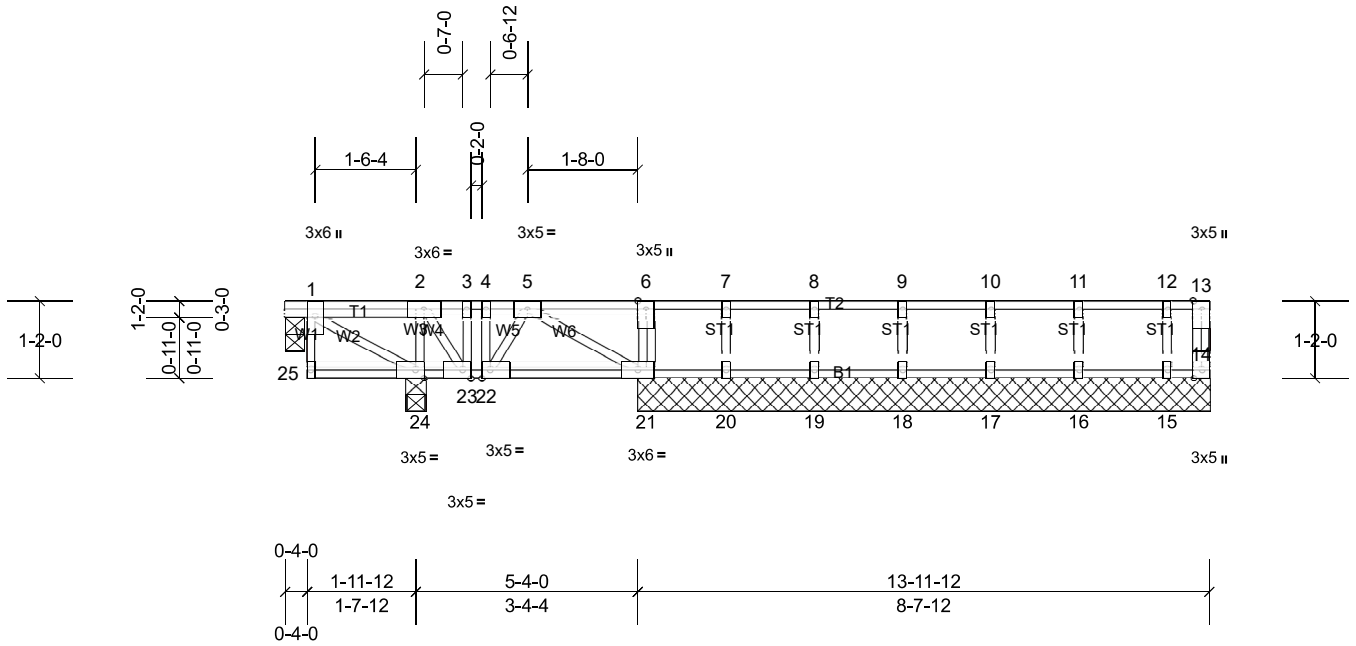
Job 24050001-B	Truss F105	Truss Type Floor	Qty 2	Ply 1	Lincoln A GRH-2nd Floor-Lincoln A GRH Job Reference (optional)
-------------------	---------------	---------------------	----------	----------	---

Carter Components, Sanford, NC, user

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:15

Page: 1

ID:2NJYwNPdA1QsJc3Q8yIgzAzFcvZ-6q0bFRIMRApMMqyZINyQjxL8K7WDGJsuzsMTapzFZl



Scale = 1:34.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/def	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	0.00	22	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.07	Vert(CT)	0.00	21-22	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 71 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 23-24.

REACTIONS All bearings 8-7-12. except 1=0-3-8, 24=0-3-8
 (lb) - Max Grav All reactions 250 (lb) or less at joint
 (s) 1, 14, 15, 16, 17, 18, 19, 20
 except 21=272 (LC 1), 24=297 (LC 3)

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

WEBS 2-24=-282/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

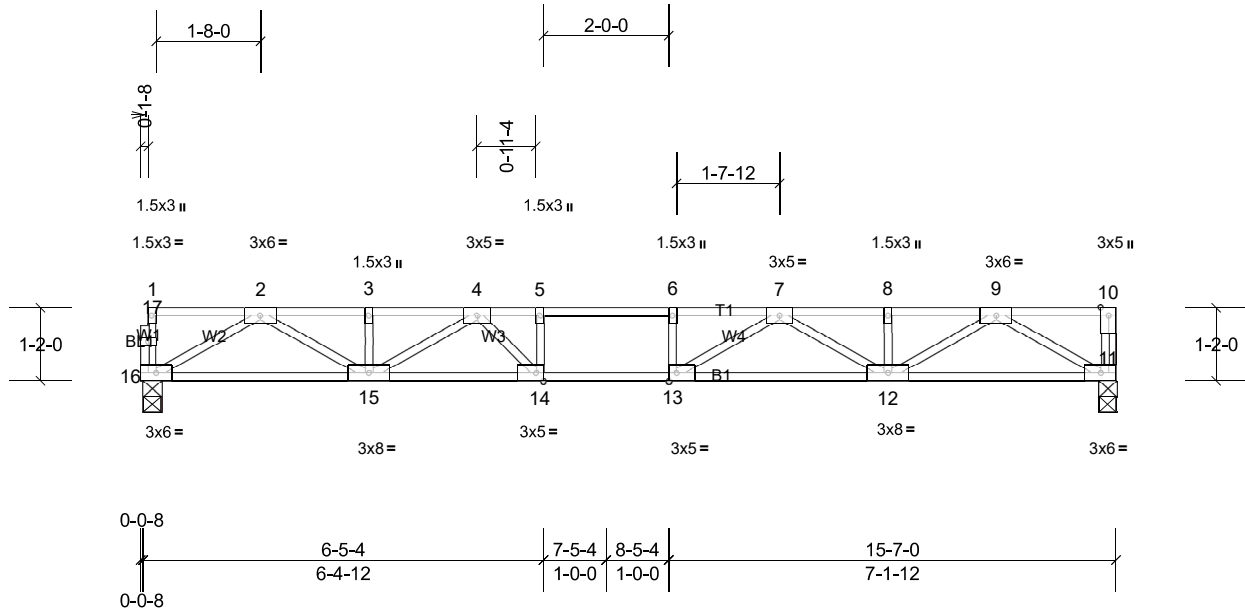
Job 24050001-B	Truss F106	Truss Type Floor	Qty 3	Ply 1	Lincoln A GRH-2nd Floor-Lincoln A GRH Job Reference (optional)
-------------------	---------------	---------------------	----------	----------	---

Carter Components, Sanford, NC, user

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:15

Page: 1

ID:2NjYwNPdA1QsJc3Q8ylgZAzFcvZ-a0azsmu_CUxD_Xlr4TFG9t8wXdD?g2ZCW507GzFZzk



Scale = 1:36.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.23	12-13	>811	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.31	12-13	>594	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH								
											Weight: 79 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (lb/size) 11=843/0-3-4, (min. 0-1-8),
 16=837/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-3=-2217/0, 3-4=-2217/0, 4-5=-3059/0,
 5-6=-3059/0, 6-7=-3059/0, 7-8=-2221/0,
 8-9=-2221/0
 BOT CHORD 15-16=0/1292, 14-15=0/2796, 13-14=0/3059,
 12-13=0/2799, 11-12=0/1299
 WEBS 5-14=-355/0, 9-11=-1503/0, 9-12=0/1075,
 7-12=-675/0, 7-13=-6/580, 2-16=-1489/0,
 2-15=0/1081, 4-15=-676/0, 4-14=0/631

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

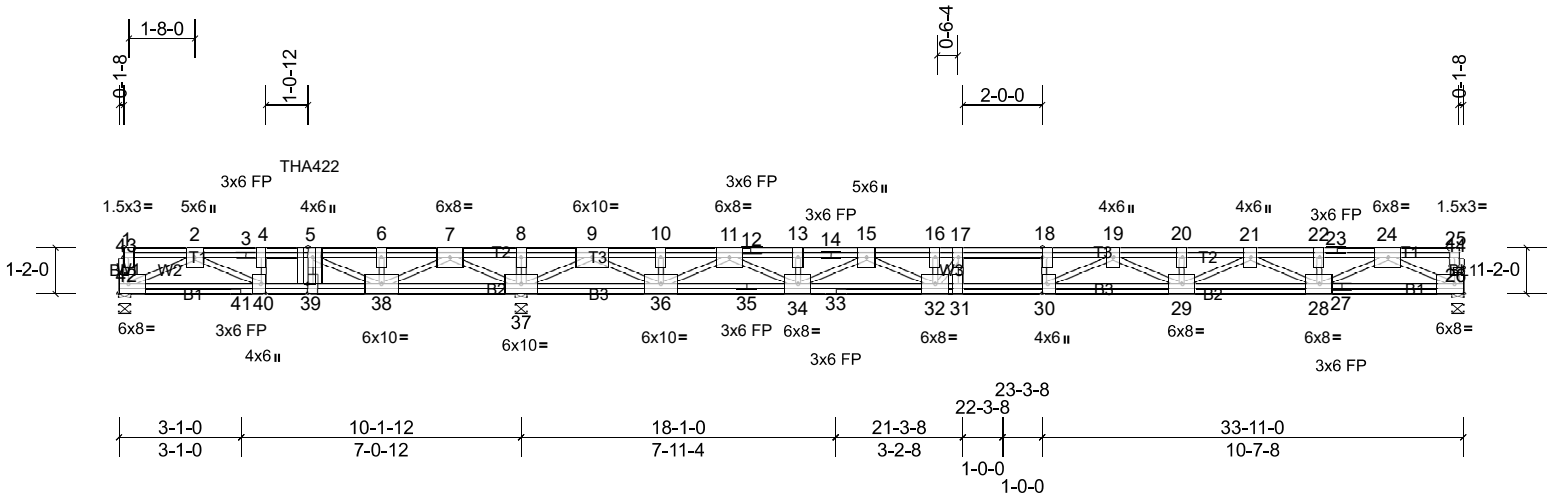
Job 24050001-B	Truss F107	Truss Type Floor Girder	Qty 1	Ply 1	Lincoln A GRH-2nd Floor-Lincoln A GRH Job Reference (optional)
-------------------	---------------	----------------------------	----------	----------	---

Carter Components, Sanford, NC, user

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:15

Page: 1

ID:TX4pBQU0IA01XWZVDP5pRzFvT-a0azsmu_CUxD_Xlr4TfG9t6XFQ?Yu2CW507GzFZzk



Scale = 1:58.1

Plate Offsets (X, Y): [5:0-3-0,Edge], [18:0-3-0,Edge], [30:0-3-0,Edge], [39:0-3-0,Edge], [40:0-3-0,Edge], [43:0-1-8,0-0-8], [44:0-1-8,0-0-8]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.36	30	>782	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.49	29-30	>579	240	
BCLL	0.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.03	26	n/a	n/a	
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 263 lb FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (lb/size) 26=846/0-3-8, (min. 0-1-8),
 37=2380/0-3-8, (min. 0-1-8),
 42=284/0-3-8, (min. 0-1-8)
 Max Uplift 42=-207 (LC 4)
 Max Grav 26=868 (LC 4), 37=2380 (LC 1),
 42=563 (LC 3)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1645/1104, 3-4=-1645/1104,
 4-5=-1645/1104, 5-6=-906/2271,
 6-7=-906/2271, 7-8=0/4693, 8-9=0/4693,
 9-10=0/1064, 10-11=0/1064, 11-12=-2476/0,
 12-13=-2476/0, 13-14=-2476/0,
 14-15=-2476/0, 15-16=-4083/0,
 16-17=-4083/0, 17-18=-4480/0,
 18-19=-4480/0, 19-20=-4218/0,
 20-21=-4218/0, 21-22=-2676/0,
 22-23=-2676/0, 23-24=-2676/0
 BOT CHORD 41-42=-436/926, 40-41=-436/926,
 39-40=-1104/1645, 38-39=-1104/1645,
 37-38=-3218/0, 36-37=-2635/0,
 35-36=-205/1218, 34-35=-205/1218,
 33-34=0/3428, 32-33=0/3428, 31-32=0/4480,
 30-31=0/4480, 29-30=0/4537, 28-29=0/3585,
 27-28=0/1484, 26-27=0/1484
 WEBS 8-37=-275/0, 17-31=-29/364, 7-37=-2142/0,
 2-42=-1048/494, 7-38=0/1936,
 2-40=-755/815, 4-40=-260/232,
 5-38=-1846/0, 9-37=-2324/0, 9-36=0/2101,
 11-36=-1767/0, 11-34=0/1472,
 15-34=-1122/0, 15-32=0/805, 16-32=-76/321,
 17-32=-1131/0, 24-26=-1680/0,
 24-28=0/1350, 21-28=-1029/0, 21-29=0/716,
 19-29=-362/0, 19-30=-465/345

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x6 MT20 unless otherwise indicated.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 42. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- CAUTION, Do not erect truss backwards.
- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 4-9-12 from the left end to connect truss(es) F114 (1 ply 2x4 SP) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- Due to span to depth ratio of this truss, the floor may exhibit objectionable vibration and/or deflection. Building designer to consider providing means to dampen possible floor vibration.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 26-42=-8, 1-25=-80
 Concentrated Loads (lb)
 Vert: 5=-560

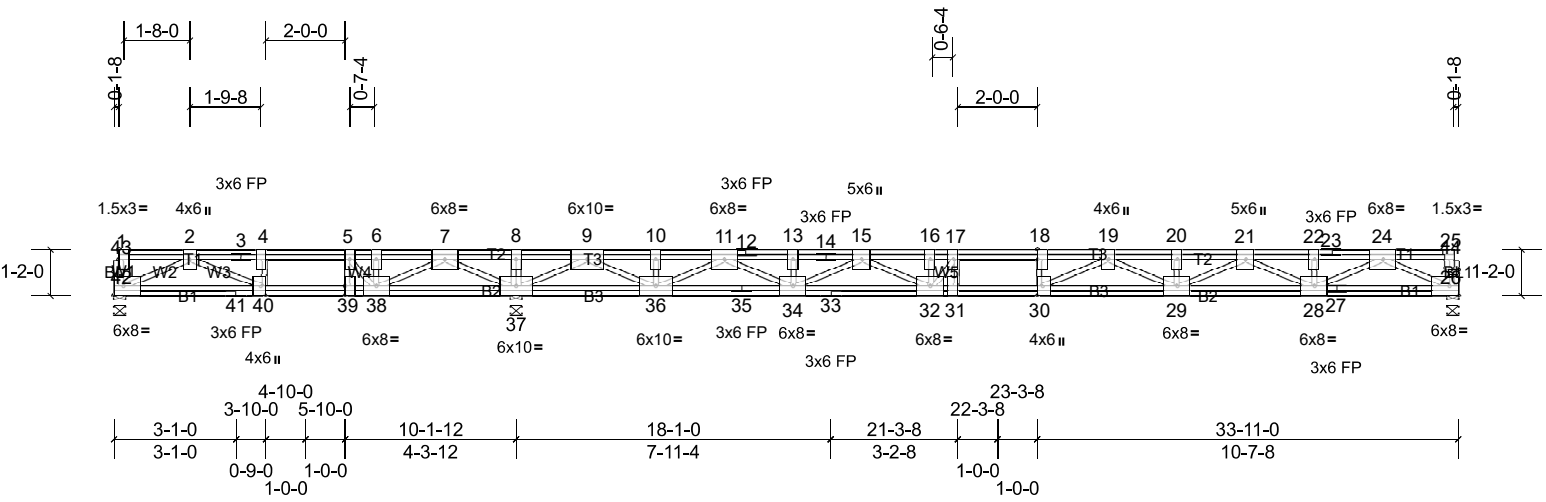
Job 24050001-B	Truss F108	Truss Type Floor	Qty 7	Ply 1	Lincoln A GRH-2nd Floor-Lincoln A GRH Job Reference (optional)
-------------------	---------------	---------------------	----------	----------	---

Carter Components, Sanford, NC, user

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:16

Page: 1

ID: ?rIL3QuiegaZWCoGNL9ebzFcvX-2C8L46uczo34c86yPo_upMQJLw0lk?cBQArZfizFzj



Scale = 1:58.1

Plate Offsets (X, Y): [18:0-3-0,Edge], [30:0-3-0,Edge], [39:0-3-0,Edge], [40:0-3-0,Edge], [43:0-1-8,Edge], [44:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.37	30	>759	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.51	29-30	>556	240	
BCLL	0.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.04	26	n/a	n/a	
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							
											Weight: 262 lb FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS (lb/size) 26=873/0-3-8, (min. 0-1-8),
 37=2027/0-3-8, (min. 0-1-8),
 42=49/0-3-8, (min. 0-1-8)
 Max Uplift 42=-247 (LC 4)
 Max Grav 26=882 (LC 4), 37=2027 (LC 1),
 42=310 (LC 3)

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

TOP CHORD 2-3=-522/1443, 3-4=-522/1443,
 4-5=-522/1443, 5-6=-175/2283,
 6-7=-175/2283, 7-8=0/4013, 8-9=0/4013,
 9-10=-34/534, 10-11=-34/534, 11-12=-2742/0,
 12-13=-2742/0, 13-14=-2742/0,
 14-15=-2742/0, 15-16=-4295/0,
 16-17=-4295/0, 17-18=-4660/0,
 18-19=-4660/0, 19-20=-4328/0,
 20-21=-4328/0, 21-22=-2732/0,
 22-23=-2732/0, 23-24=-2732/0
 BOT CHORD 41-42=-520/444, 40-41=-520/444,
 39-40=-1443/522, 38-39=-1443/522,
 37-38=-3036/0, 36-37=-1987/0,
 35-36=0/1511, 34-35=0/1511, 33-34=0/3665,
 32-33=0/3665, 31-32=0/4660, 30-31=0/4660,
 29-30=0/4676, 28-29=0/3667, 27-28=0/1512,
 26-27=0/1512

WEBS 4-40=-67/295, 5-39=0/533, 17-31=-65/330,
 24-26=-1711/0, 24-28=0/1381,
 21-28=-1059/0, 21-29=0/747, 19-29=-417/0,
 19-30=-387/428, 9-37=-2288/0, 9-36=0/2040,
 11-36=-1710/0, 11-34=0/1413,
 15-34=-1065/0, 15-32=0/756,
 16-32=-105/294, 17-32=-1041/0,
 7-37=-1461/0, 7-38=0/1190, 6-38=0/418,
 5-38=-1629/0, 2-42=-502/588, 2-40=-1030/87

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 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) 42. This connection is for uplift only and does not consider lateral forces.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- 7) Due to span to depth ratio of this truss, the floor may exhibit objectionable vibration and/or deflection. Building designer to consider providing means to dampen possible floor vibration.

LOAD CASE(S) Standard

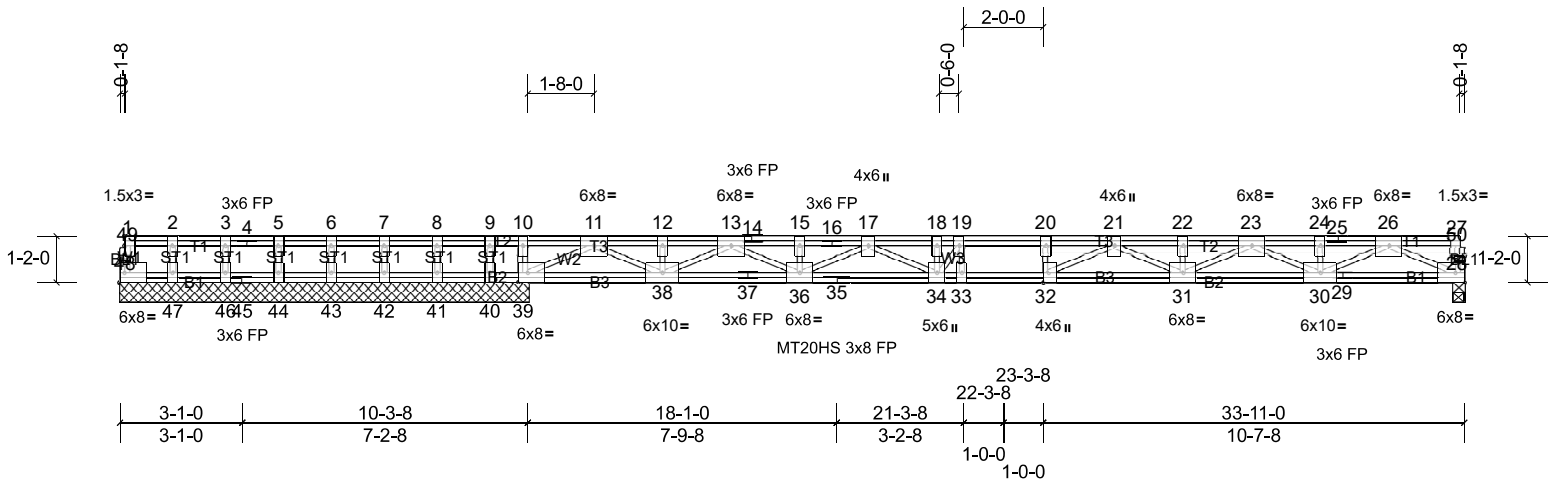
Job 24050001-B	Truss F109	Truss Type Floor	Qty 1	Ply 1	Lincoln A GRH-2nd Floor-Lincoln A GRH Job Reference (optional)
-------------------	---------------	---------------------	----------	----------	---

Carter Components, Sanford, NC, user

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:16

Page: 1

ID:PKWQz4Tm_Z29QNxNxWusGDzFcvU-2C8L46uczo34c86yPo_upMQIOw_jk20BQArZfizFZzj



Scale = 1:58.1

Plate Offsets (X, Y): [32:0-3-0,Edge], [39:0-3-0,Edge], [49:0-1-8,0-0-8], [50:0-1-8,0-0-8]

Loading	(psf)	Spacing	1-7-3	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.50	32-33	>568	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	Vert(CT)	-0.68	32-33	>413	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	Horz(CT)	0.08	28	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							
											Weight: 254 lb FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS

All bearings 10-3-8. except 28=0-3-8
 (lb) - Max Uplift All uplift 100 (lb) or less at joint(s)
 42, 48 except 40=-1102 (LC 4)
 Max Grav All reactions 250 (lb) or less at joint
 (s) 40, 42, 43, 44, 46, 47, 48 except
 28=1006 (LC 1), 39=2104 (LC 1),
 41=269 (LC 1)

FORCES

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

TOP CHORD 11-12=-2658/0, 12-13=-2658/0,
 13-14=-4972/0, 14-15=-4972/0,
 15-16=-4972/0, 16-17=-4972/0,
 17-18=-6047/0, 18-19=-6047/0,
 19-20=-6156/0, 20-21=-6156/0,
 21-22=-5238/0, 22-23=-5238/0,
 23-24=-3194/0, 24-25=-3194/0,
 25-26=-3194/0
 BOT CHORD 38-39=0/1144, 37-38=0/3929, 36-37=0/3929,
 35-36=0/5651, 34-35=0/5651, 33-34=0/6156,
 32-33=0/6156, 31-32=0/5825, 30-31=0/4350,
 29-30=0/1743, 28-29=0/1743
 WEBS 10-39=-997/0, 26-28=-1972/0, 26-30=0/1643,
 23-30=-1309/0, 23-31=0/1004, 21-31=-665/0,
 21-32=0/374, 11-39=-1286/0, 11-38=0/1714,
 13-38=-1438/0, 13-36=0/1181, 17-36=-769/0,
 17-34=0/448, 9-40=0/653

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 MT20 unless otherwise indicated.
- 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) except (jt=lb) 40=1101.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 48 and 42. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- 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.
- CAUTION, Do not erect truss backwards.
- Due to span to depth ratio of this truss, the floor may exhibit objectionable vibration and/or deflection. Building designer to consider providing means to dampen possible floor vibration.

LOAD CASE(S) Standard

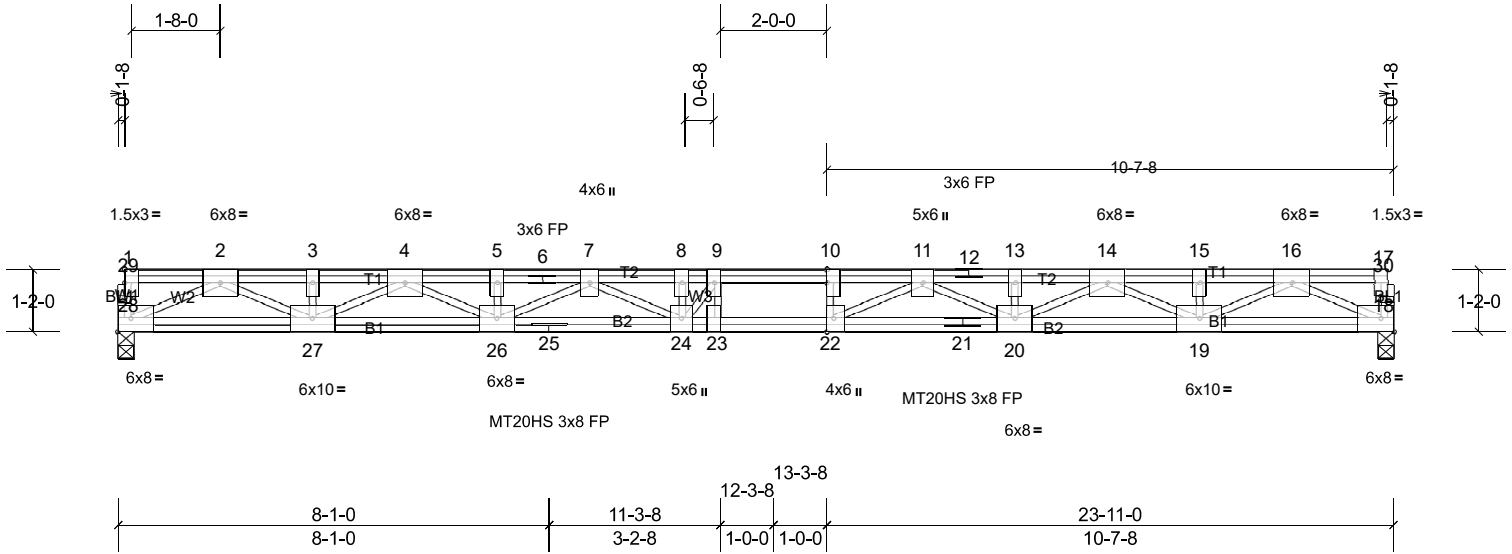
Job 24050001-B	Truss F110	Truss Type Floor	Qty 3	Ply 1	Lincoln A GRH-2nd Floor-Lincoln A GRH Job Reference (optional)
-------------------	---------------	---------------------	----------	----------	---

Carter Components, Sanford, NC, user

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:16

Page: 1

ID:tX4pBQUOItA01XWZVDP5pRzFcvT-2C8L46ucz034c86yPo_upMQQVwzXk25BQArZfzFZj



Scale = 1:43.2

Plate Offsets (X, Y): [10:0-3-0,Edge], [22:0-3-0,Edge], [29:0-1-8,0-0-8], [30:0-1-8,0-0-8]

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	0.33	Vert(LL)	-0.53	22-23	>529	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.73	22-23	>384	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.08	18	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH								
										Weight: 186 lb	FT = 20%F, 11%E	

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 2-2-0 oc bracing: 23-24,22-23.

REACTIONS (lb/size) 18=1035/0-3-8, (min. 0-1-8),
 28=1035/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-3=-3303/0, 3-4=-3303/0, 4-5=-5455/0,
 5-6=-5455/0, 6-7=-5455/0, 7-8=-6465/0,
 8-9=-6465/0, 9-10=-6511/0, 10-11=-6511/0,
 11-12=-5454/0, 12-13=-5454/0,
 13-14=-5454/0, 14-15=-3304/0,
 15-16=-3304/0
 BOT CHORD 27-28=0/1797, 26-27=0/4514, 25-26=0/6101,
 24-25=0/6101, 23-24=0/6511, 22-23=0/6511,
 21-22=0/6098, 20-21=0/6098, 19-20=0/4512,
 18-19=0/1797
 WEBS 10-22=-264/0, 16-18=-2034/0, 16-19=0/1705,
 14-19=-1368/0, 14-20=0/1066, 11-20=-729/0,
 11-22=-59/831, 2-28=-2034/0, 2-27=0/1704,
 4-27=-1371/0, 4-26=0/1065, 7-26=-732/0,
 7-24=0/549, 9-24=-659/454

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

LOAD CASE(S) Standard

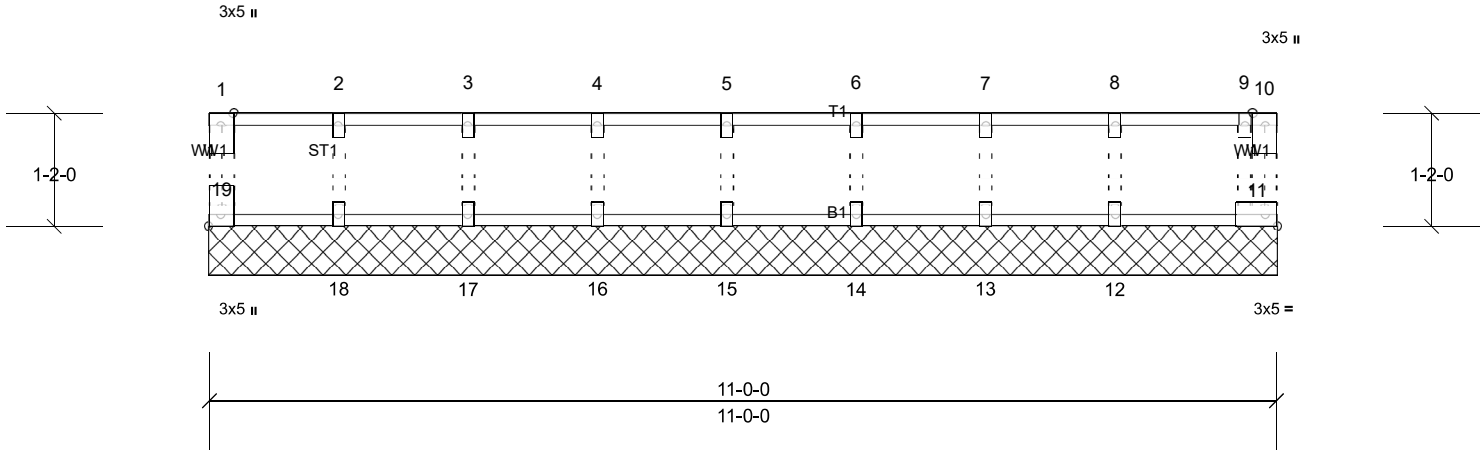
Job 24050001-B	Truss F111	Truss Type Floor Supported Gable	Qty 1	Ply 1	Lincoln A GRH-2nd Floor-Lincoln A GRH Job Reference (optional)
-------------------	---------------	-------------------------------------	----------	----------	---

Carter Components, Sanford, NC, user

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:17

Page: 1

ID:TX4pBQU0ItA01XWZVDP5pRzFcvT-WPhkHSvEk5BxDlh8zVV7LazftkYYThYKfqa7B8zFZzi



Scale = 1:23.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/def	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 49 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

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

REACTIONS All bearings 11-0-0.

- (lb) - Max Grav All reactions 250 (lb) or less at joint
- (s) 11, 12, 13, 14, 15, 16, 17, 18, 19

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

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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

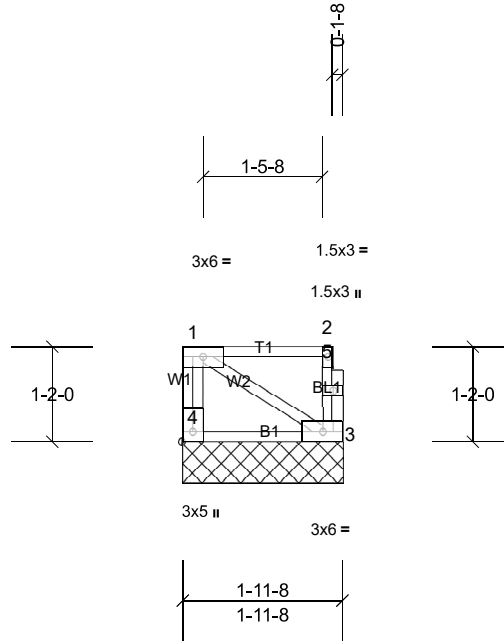
Job 24050001-B	Truss F112	Truss Type Floor Supported Gable	Qty 1	Ply 1	Lincoln A GRH-2nd Floor-Lincoln A GRH Job Reference (optional)
-------------------	---------------	-------------------------------------	----------	----------	---

Carter Components, Sanford, NC, user

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:17

Page: 1

ID: BndesLUVKcJ9MiTn?fG3sZzFbaF-WPhkHSvEk5BxDlh8zVV7LazdJKYiTh?Kfqa7B8zFZzi



Scale = 1:28.3

Plate Offsets (X, Y): [4:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=88/1-11-8, (min. 0-1-8),
 4=94/1-11-8, (min. 0-1-8)

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

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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

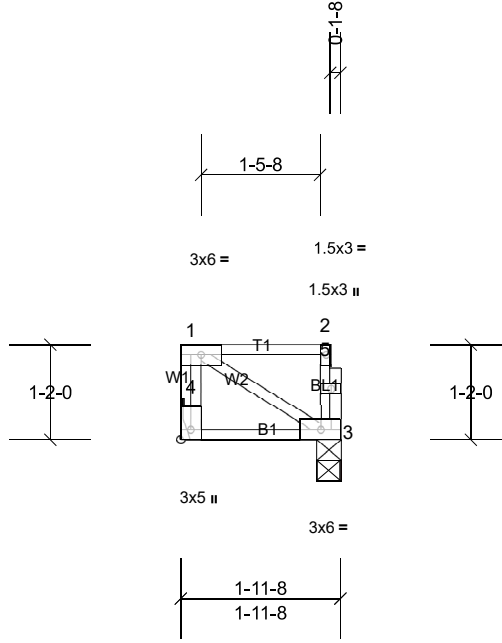
Job 24050001-B	Truss F113	Truss Type Floor	Qty 1	Ply 1	Lincoln A GRH-2nd Floor-Lincoln A GRH Job Reference (optional)
-------------------	---------------	---------------------	----------	----------	---

Carter Components, Sanford, NC, user

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:17

Page: 1

ID:MvooA5cOk?ibAOou8TyfouzFba4-WPhkHSvEk5BxDlh8zVV7LazdJKYiTh?Kfqa7B8zFZzi



Scale = 1:28.3

Plate Offsets (X, Y): [4:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	0.00	3-4	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=88/0-3-8, (min. 0-1-8), 4=94/Mechanical, (min. 0-1-8)

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

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

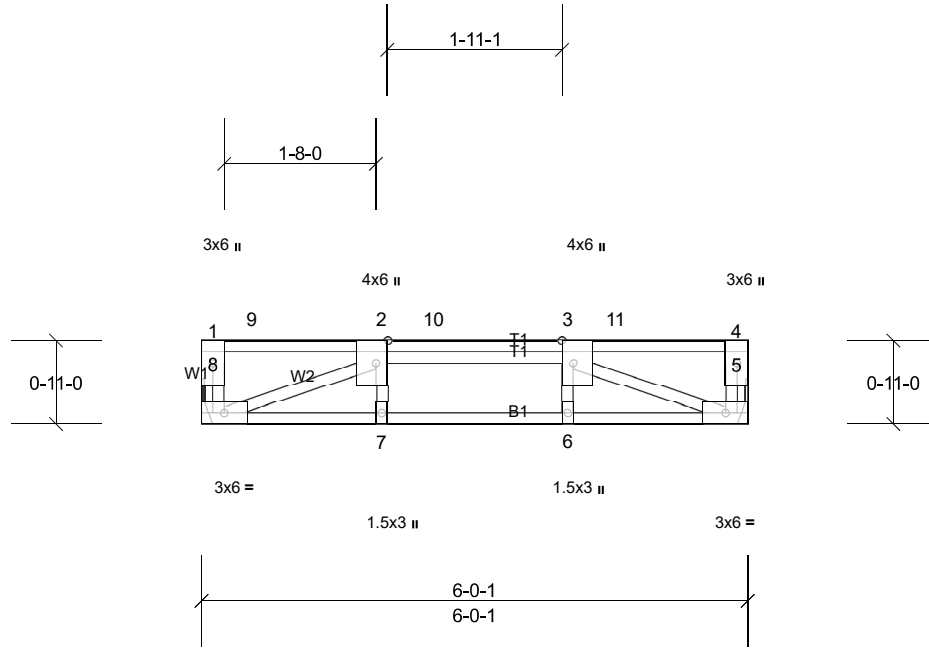
Job 24050001-B	Truss F114	Truss Type Floor Girder	Qty 1	Ply 1	Lincoln A GRH-2nd Floor-Lincoln A GRH Job Reference (optional)
-------------------	---------------	----------------------------	----------	----------	---

Carter Components, Sanford, NC, user

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Fri May 17 15:12:17

Page: 1

ID:tX4pBQUOItA01XWZVDP5pRzFcvT-WPhkHSvEk5BxDlh8zVV7LazcwKS8TdyKfqa7B8zFZzi



Scale = 1:25.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.03	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.04	7	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 37 lb	FT = 20%F, 11%E

LUMBER

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

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 (lb/size) 5=528/ Mechanical, (min. 0-1-8), 8=594/ Mechanical, (min. 0-1-8)
 Max Grav 5=640 (LC 4), 8=692 (LC 3)

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

TOP CHORD 1-8=-283/0, 2-10=-1016/0, 3-10=-1016/0
 BOT CHORD 7-8=0/1016, 6-7=0/1016, 5-6=0/1016
 WEBS 3-5=-1091/0, 2-8=-1091/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 5-8=-10, 1-4=-100
 Concentrated Loads (lb)
 Vert: 4=-27, 2=-2, 9=-173, 10=-144, 11=-144