Job	Truss	Truss Type	Qty	Ply	VULCAN-DW-2032 ROOF
22-0376-A	F01	Floor Supported Gable	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Thu Jan 20 12:10:02 2022 Page 1
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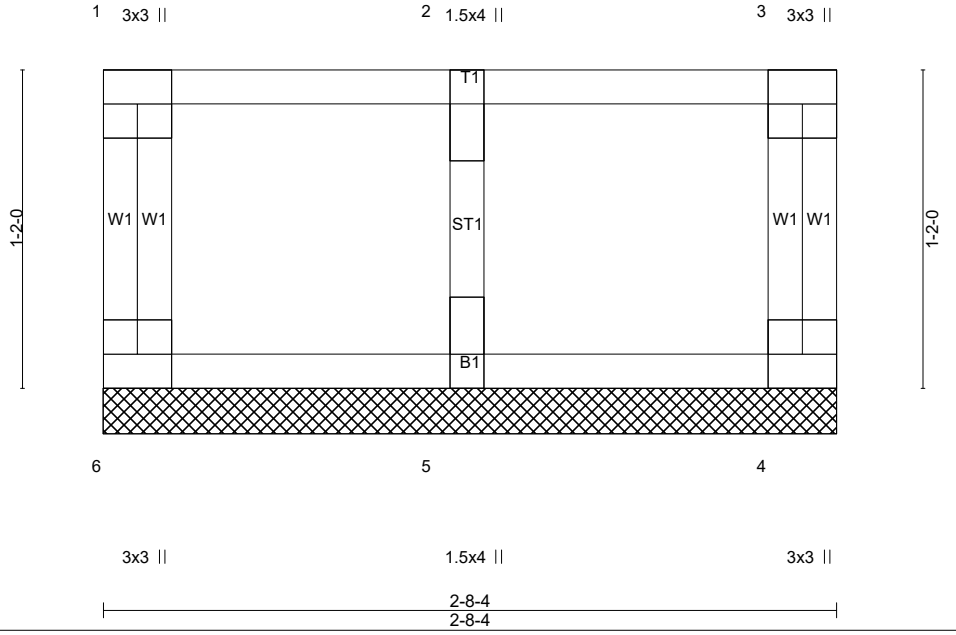

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R							Weight: 15 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 2-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=65/2-8-4 (min. 0-1-8), 4=66/2-8-4 (min. 0-1-8), 5=137/2-8-4 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-58/0, 3-4=-59/0, 1-2=-12/0, 2-3=-12/0
BOT CHORD 5-6=0/12, 4-5=0/12
WEBS 2-5=-126/0

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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	VULCAN-DW-2032 ROOF
22-0376-A	F02	Floor	4	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Thu Jan 20 12:10:03 2022 Page 1
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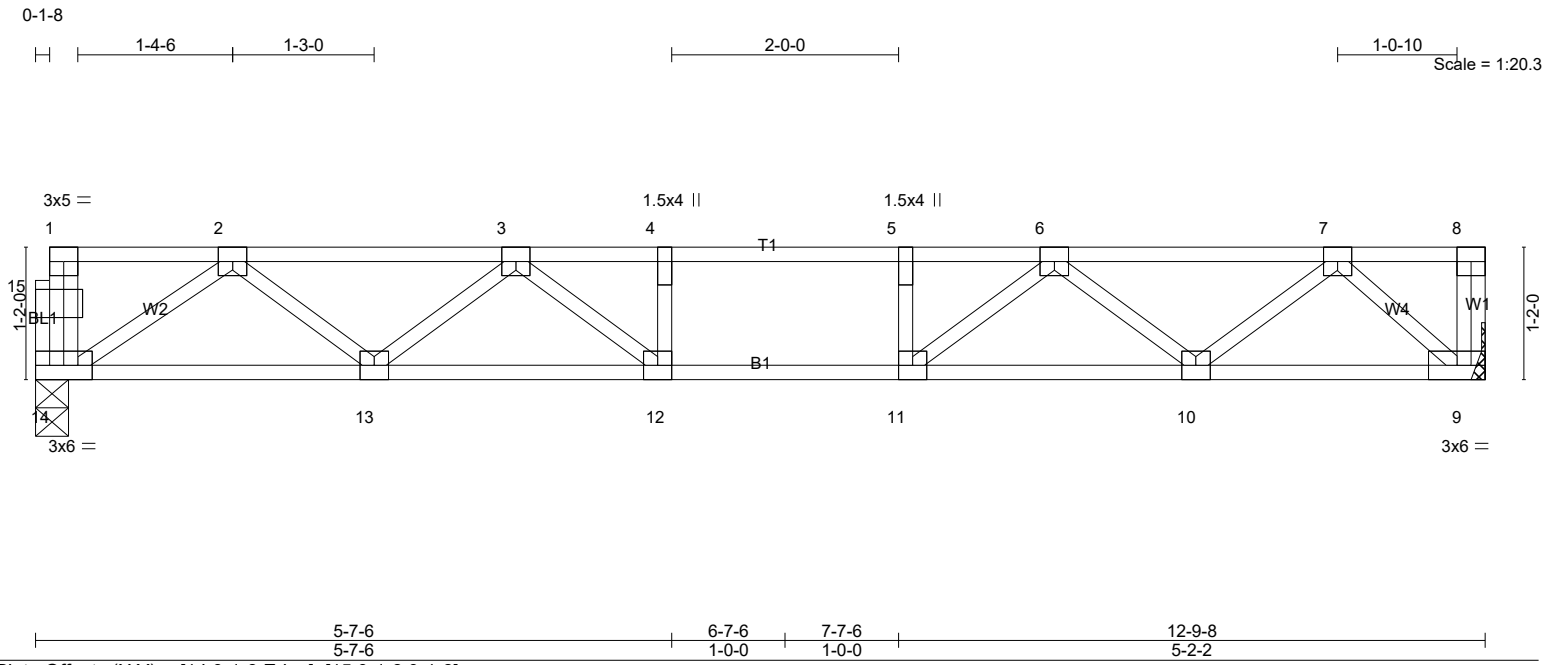

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,0-1-8]

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	0.43	Vert(LL)	-0.10	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.56	Vert(CT)	-0.12	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 65 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) 9=552/Mechanical, 14=542/0-3-8 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 14-15=-39/0, 1-15=-38/0, 8-9=-20/0, 1-2=-5/0, 2-3=-1145/0, 3-4=-1626/0, 4-5=-1626/0, 5-6=-1626/0, 6-7=-1006/0, 7-8=0/0
BOT CHORD 13-14=0/772, 12-13=0/1484, 11-12=0/1626, 10-11=0/1398, 9-10=0/593
WEBS 4-12=-174/0, 5-11=-205/0, 3-12=0/362, 3-13=-441/0, 2-13=0/486, 2-14=-913/0, 6-11=0/439, 6-10=-510/0, 7-10=0/538, 7-9=-792/0

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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	VULCAN-DW-2032 ROOF
22-0376-A	F03	Floor Supported Gable	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Thu Jan 20 12:10:03 2022 Page 1
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0-1-8

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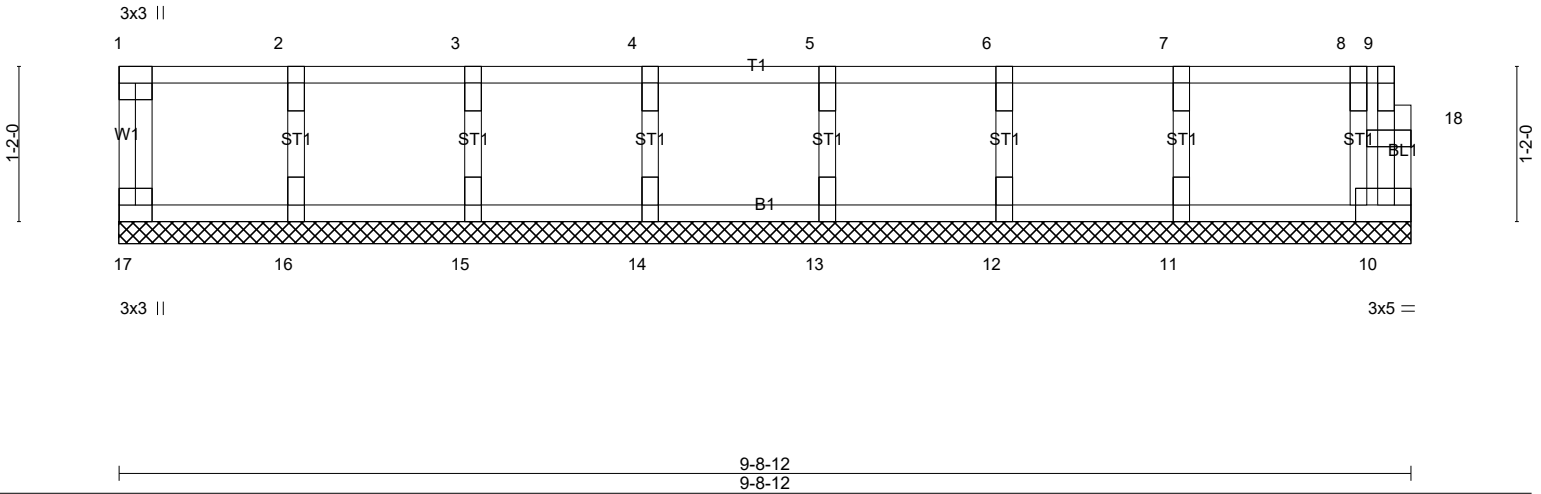

9-8-12
9-8-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	10	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R							Weight: 43 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. (lb/size) 17=79/9-8-12 (min. 0-1-8), 10=193/9-8-12 (min. 0-1-8), 16=123/9-8-12 (min. 0-1-8), 15=153/9-8-12 (min. 0-1-8), 14=145/9-8-12 (min. 0-1-8), 13=149/9-8-12 (min. 0-1-8), 12=140/9-8-12 (min. 0-1-8), 11=278/9-8-12 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-65/0, 10-18=-17/0, 9-18=-17/0, 1-2=-25/0, 2-3=-25/0, 3-4=-25/0, 4-5=-25/0, 5-6=-25/0, 6-7=-25/0, 7-8=-25/0, 8-9=0/3
BOT CHORD 16-17=0/25, 15-16=0/25, 14-15=0/25, 13-14=0/25, 12-13=0/25, 11-12=0/25, 10-11=0/25
WEBS 2-16=-120/0, 3-15=-137/0, 4-14=-132/0, 5-13=-135/0, 6-12=-129/0, 7-11=-257/0, 8-10=-176/0

NOTES-
1) All plates are 1.5x4 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) This truss is designed in accordance with the 2015 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 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 10-17=-10, 1-9=-100
Concentrated Loads (lb)
Vert: 7=-107 8=-117

Job	Truss	Truss Type	Qty	Ply	VULCAN-DW-2032 ROOF
22-0376-A	F04	Floor	5	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Thu Jan 20 12:10:04 2022 Page 1
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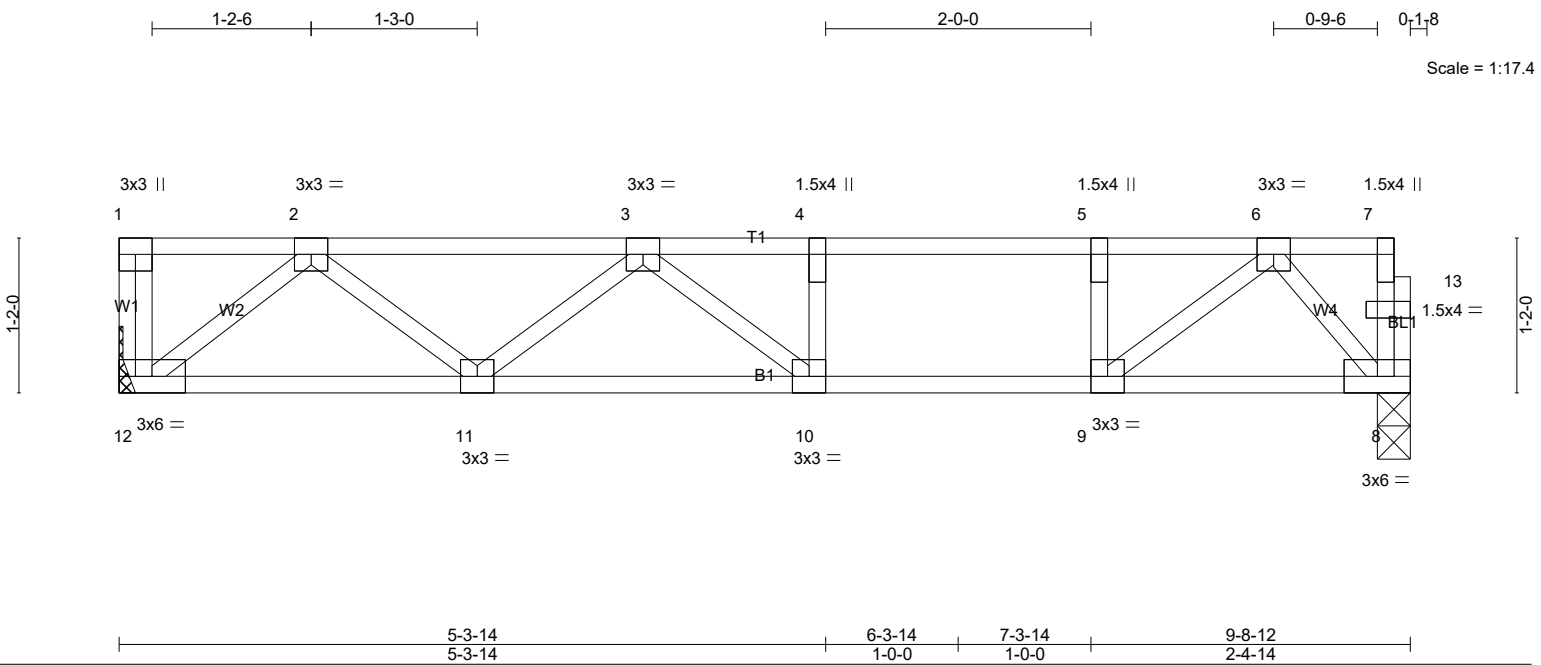

Plate Offsets (X,Y)-- [13:0-1-8,0-0-12]

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	0.72	Vert(LL)	-0.10	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.14	10-11	>811	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 50 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) 12=417/Mechanical, 8=412/0-3-0 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-31/0, 8-13=-56/0, 7-13=-56/0, 1-2=0/0, 2-3=-741/0, 3-4=-833/0, 4-5=-833/0, 5-6=-833/0, 6-7=-3/0
BOT CHORD 11-12=0/486, 10-11=0/932, 9-10=0/833, 8-9=0/327
WEBS 4-10=-63/38, 5-9=-308/0, 3-10=-174/94, 3-11=-248/0, 2-11=0/332, 2-12=-619/0, 6-9=0/646, 6-8=-494/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	VULCAN-DW-2032 ROOF
22-0376-A	F05	Floor Supported Gable	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Thu Jan 20 12:10:05 2022 Page 1
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0-1-8

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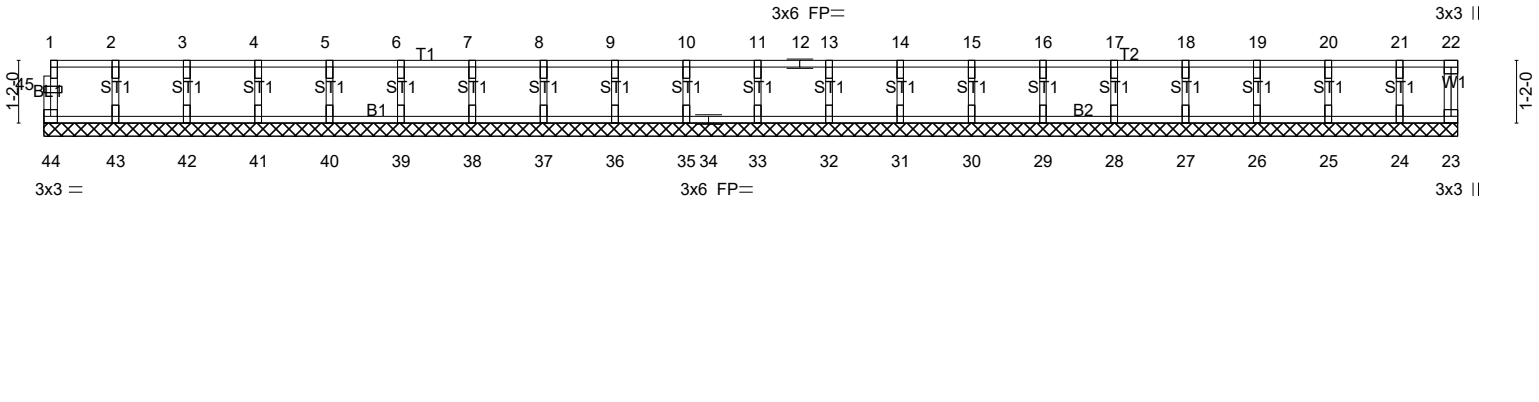

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [45:0-1-8,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	23	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R							Weight: 109 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. (lb/size) 44=53/26-5-0 (min. 0-1-8), 23=47/26-5-0 (min. 0-1-8), 43=146/26-5-0 (min. 0-1-8), 42=147/26-5-0 (min. 0-1-8), 41=147/26-5-0 (min. 0-1-8), 40=147/26-5-0 (min. 0-1-8), 39=147/26-5-0 (min. 0-1-8), 38=147/26-5-0 (min. 0-1-8), 37=147/26-5-0 (min. 0-1-8), 36=147/26-5-0 (min. 0-1-8), 35=147/26-5-0 (min. 0-1-8), 33=147/26-5-0 (min. 0-1-8), 32=147/26-5-0 (min. 0-1-8), 31=147/26-5-0 (min. 0-1-8), 30=147/26-5-0 (min. 0-1-8), 29=147/26-5-0 (min. 0-1-8), 28=147/26-5-0 (min. 0-1-8), 27=147/26-5-0 (min. 0-1-8), 26=146/26-5-0 (min. 0-1-8), 25=151/26-5-0 (min. 0-1-8), 24=128/26-5-0 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 44-45=-49/0, 1-45=-49/0, 22-23=-42/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-5=-7/0, 5-6=-7/0, 6-7=-7/0, 7-8=-7/0, 8-9=-7/0, 9-10=-7/0, 10-11=-7/0, 11-12=-7/0, 12-13=-7/0, 13-14=-7/0, 14-15=-7/0, 15-16=-7/0, 16-17=-7/0, 17-18=-7/0, 18-19=-7/0, 19-20=-7/0, 20-21=-7/0, 21-22=-7/0
BOT CHORD 43-44=0/7, 42-43=0/7, 41-42=0/7, 40-41=0/7, 39-40=0/7, 38-39=0/7, 37-38=0/7, 36-37=0/7, 35-36=0/7, 34-35=0/7, 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, 26-27=0/7, 25-26=0/7, 24-25=0/7, 23-24=0/7
WEBS 2-43=-132/0, 3-42=-134/0, 4-41=-133/0, 5-40=-133/0, 6-39=-133/0, 7-38=-133/0, 8-37=-133/0, 9-36=-133/0, 10-35=-133/0, 11-33=-133/0, 13-32=-133/0, 14-31=-133/0, 15-30=-133/0, 16-29=-133/0, 17-28=-133/0, 18-27=-134/0, 19-26=-132/0, 20-25=-137/0, 21-24=-118/0

NOTES-
1) All plates are 1.5x4 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) This truss is designed in accordance with the 2015 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 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	VULCAN-DW-2032 ROOF
22-0376-A	F06	Floor Supported Gable	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Thu Jan 20 12:10:06 2022 Page 1
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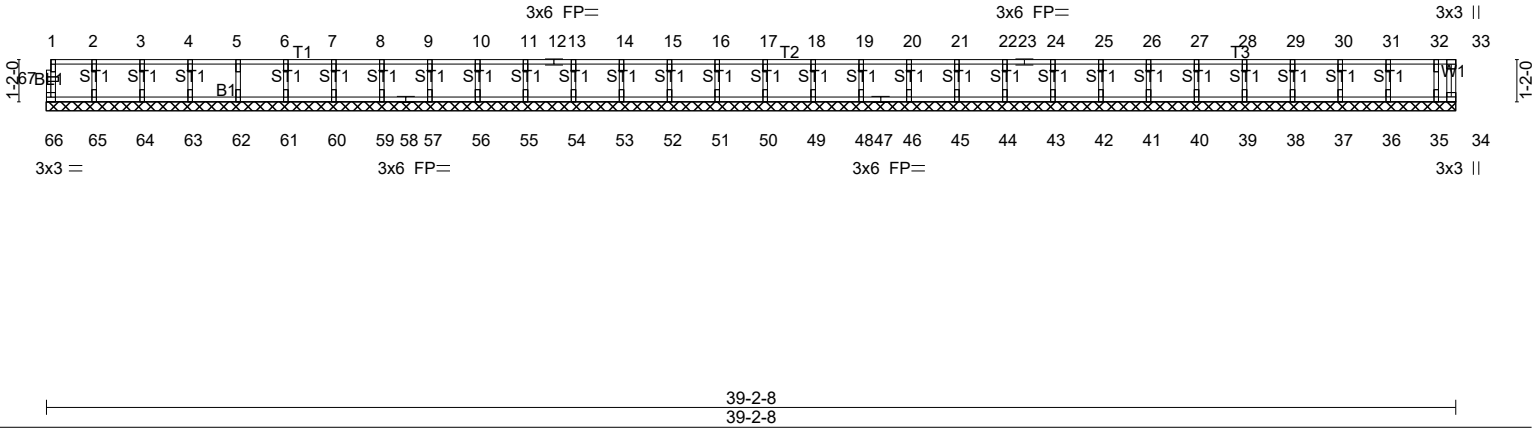
0-1-8

Scale: 3/16"=1'



39-2-8
39-2-8

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [67:0-1-8,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	34	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-R							Weight: 161 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. (lb/size) 66=52/39-2-8 (min. 0-2-3), 34=10/39-2-8 (min. 0-2-3), 65=149/39-2-8 (min. 0-2-3), 64=146/39-2-8 (min. 0-2-3), 63=147/39-2-8 (min. 0-2-3), 62=147/39-2-8 (min. 0-2-3), 61=147/39-2-8 (min. 0-2-3), 60=147/39-2-8 (min. 0-2-3), 59=147/39-2-8 (min. 0-2-3), 57=147/39-2-8 (min. 0-2-3), 56=147/39-2-8 (min. 0-2-3), 55=147/39-2-8 (min. 0-2-3), 54=147/39-2-8 (min. 0-2-3), 53=147/39-2-8 (min. 0-2-3), 52=147/39-2-8 (min. 0-2-3), 51=147/39-2-8 (min. 0-2-3), 50=147/39-2-8 (min. 0-2-3), 49=147/39-2-8 (min. 0-2-3), 48=147/39-2-8 (min. 0-2-3), 46=147/39-2-8 (min. 0-2-3), 45=147/39-2-8 (min. 0-2-3), 44=147/39-2-8 (min. 0-2-3), 43=147/39-2-8 (min. 0-2-3), 42=147/39-2-8 (min. 0-2-3), 41=147/39-2-8 (min. 0-2-3), 40=147/39-2-8 (min. 0-2-3), 39=147/39-2-8 (min. 0-2-3), 38=147/39-2-8 (min. 0-2-3), 37=145/39-2-8 (min. 0-2-3), 36=153/39-2-8 (min. 0-2-3), 35=104/39-2-8 (min. 0-2-3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 66-67=-48/0, 1-67=-48/0, 33-34=-2/0, 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, 9-10=-6/0, 10-11=-6/0, 11-12=-6/0, 12-13=-6/0, 13-14=-6/0, 14-15=-6/0, 15-16=-6/0, 16-17=-6/0, 17-18=-6/0, 18-19=-6/0, 19-20=-6/0, 20-21=-6/0, 21-22=-6/0, 22-23=-6/0, 23-24=-6/0, 24-25=-6/0, 25-26=-6/0, 26-27=-6/0, 27-28=-6/0, 28-29=-6/0, 29-30=-6/0, 30-31=-6/0, 31-32=-6/0, 32-33=-6/0
BOT CHORD 65-66=0/6, 64-65=0/6, 63-64=0/6, 62-63=0/6, 61-62=0/6, 60-61=0/6, 59-60=0/6, 58-59=0/6, 57-58=0/6, 56-57=0/6, 55-56=0/6, 54-55=0/6, 53-54=0/6, 52-53=0/6, 51-52=0/6, 50-51=0/6, 49-50=0/6, 48-49=0/6, 47-48=0/6, 46-47=0/6, 45-46=0/6, 44-45=0/6, 43-44=0/6, 42-43=0/6, 41-42=0/6, 40-41=0/6, 39-40=0/6, 38-39=0/6, 37-38=0/6, 36-37=0/6, 35-36=0/6, 34-35=0/6
WEBS 2-65=-133/0, 3-64=-134/0, 4-63=-133/0, 5-62=-133/0, 6-61=-133/0, 7-60=-133/0, 8-59=-133/0, 9-57=-133/0, 10-56=-133/0, 11-55=-133/0, 13-54=-133/0, 14-53=-133/0, 15-52=-133/0, 16-51=-133/0, 17-50=-133/0, 18-49=-133/0, 19-48=-133/0, 20-46=-133/0, 21-45=-133/0, 22-44=-133/0, 24-43=-133/0, 25-42=-133/0, 26-41=-133/0, 27-40=-133/0, 28-39=-133/0, 29-38=-134/0, 30-37=-132/0, 31-36=-138/0, 32-35=-102/0

NOTES-
1) All plates are 1.5x4 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) This truss is designed in accordance with the 2015 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 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	VULCAN-DW-2032 ROOF
22-0376-A	F07	Floor	5	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Thu Jan 20 12:10:07 2022 Page 1
ID:ZmW9N1QBWvVenh7H4GbO45ztlQl-pQnIAa?VslqNdPDLdUvGxymGTPtxUboDX97yluztU6E

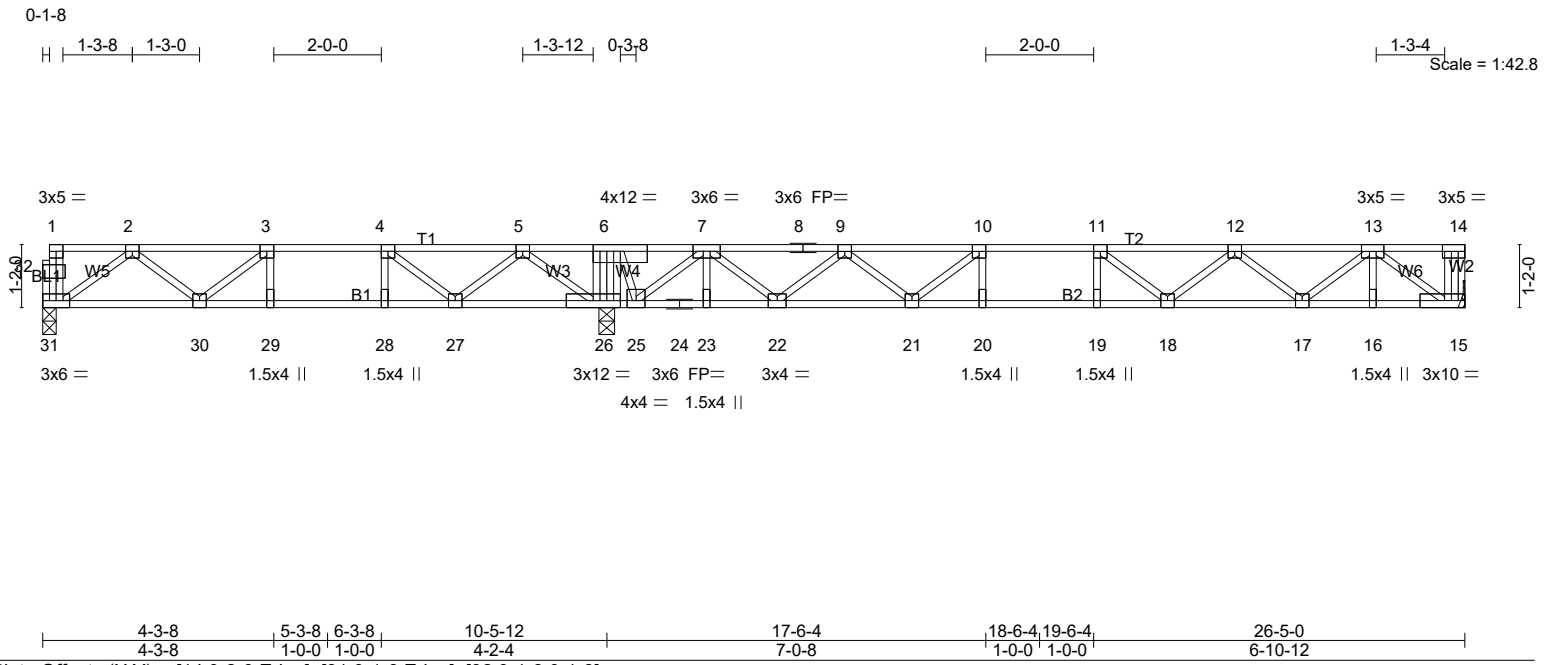


Plate Offsets (X,Y)-- [14:0-2-0,Edge], [31:0-1-8,Edge], [32:0-1-8,0-1-8]

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	0.62	Vert(LL)	-0.16	18-19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.21	18-19	>896	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	15	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 138 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 1-4-12 oc bracing.

REACTIONS. (lb/size) 31=318/0-3-0 (min. 0-1-8), 26=1358/0-3-8 (min. 0-1-8), 15=617/Mechanical
Max Grav 31=390(LC 3), 26=1358(LC 1), 15=633(LC 7)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 31-32=-27/4, 1-32=-27/4, 14-15=-46/0, 1-2=-3/1, 2-3=-714/48, 3-4=-842/224, 4-5=-468/528, 5-6=0/1320, 6-7=0/915, 7-8=-905/0, 8-9=-905/0, 9-10=-1790/0, 10-11=-2149/0, 11-12=-2017/0, 12-13=-1379/0, 13-14=0/0
BOT CHORD 30-31=0/529, 29-30=-224/842, 28-29=-224/842, 27-28=-224/842, 26-27=-756/135, 25-26=-1251/0, 24-25=-147/285, 23-24=-147/285, 22-23=-147/285, 21-22=0/1469, 20-21=0/2149, 19-20=0/2149, 18-19=0/2149, 17-18=0/1835, 16-17=0/883, 15-16=0/883
WEBS 3-29=-175/0, 4-28=0/202, 10-20=-31/177, 11-19=-153/56, 6-26=-821/0, 3-30=-164/224, 2-30=-89/241, 2-31=-635/0, 4-27=-686/0, 5-27=0/564, 5-26=-871/0, 10-21=-586/0, 9-21=0/461, 9-22=-766/0, 7-22=0/830, 7-23=0/9, 7-25=-1128/0, 6-25=0/767, 11-18=-286/75, 12-18=0/266, 12-17=-594/0, 13-17=0/632, 13-16=0/15, 13-15=-1057/0

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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	VULCAN-DW-2032 ROOF
22-0376-A	F08	Floor	9	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Thu Jan 20 12:10:08 2022 Page 1
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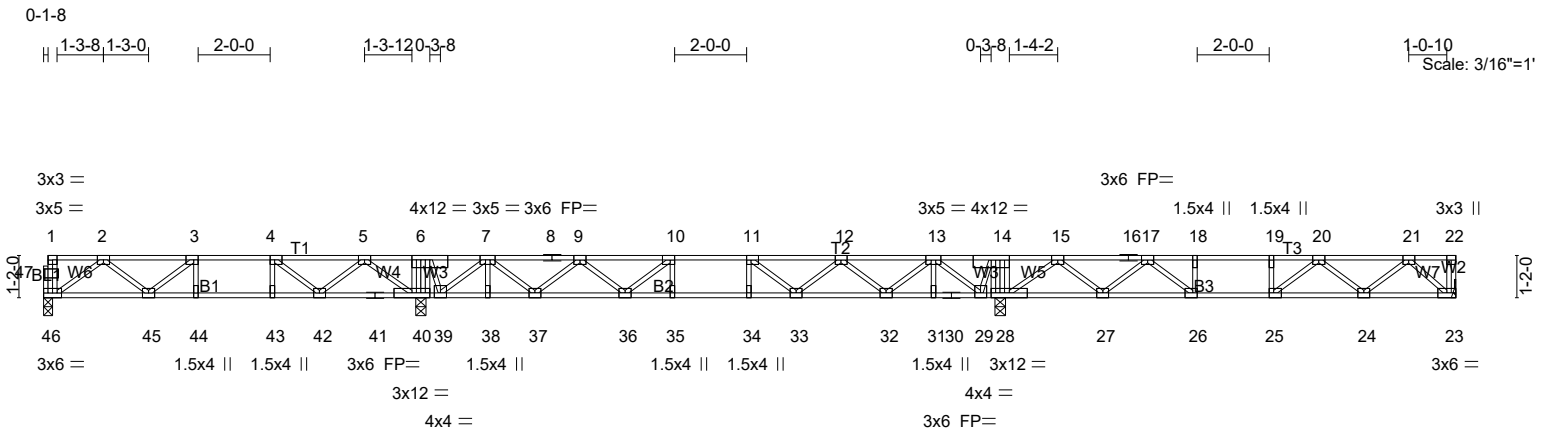

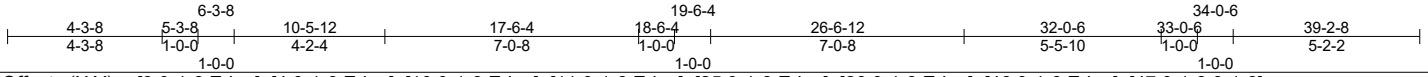

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [25:0-1-8,Edge], [26:0-1-8,Edge], [46:0-1-8,Edge], [47:0-1-8,0-1-8]

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	0.74	Vert(LL)	-0.11	35	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.15	35	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.03	23	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 203 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 6-0-0 oc bracing.

REACTIONS. (lb/size) 28=1405/0-3-8 (min. 0-1-8), 46=325/0-3-0 (min. 0-1-8), 40=1264/0-3-8 (min. 0-1-8), 23=424/Mechanical
Max Grav 28=1423(LC 11), 46=394(LC 5), 40=1292(LC 3), 23=484(LC 5)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 46-47=-27/4, 1-47=-27/4, 22-23=-23/0, 1-2=-3/0, 2-3=-725/37, 3-4=-863/203, 4-5=-498/498, 5-6=0/1256, 6-7=0/901, 7-8=-709/60, 8-9=-709/60, 9-10=-1454/0, 10-11=-1682/0, 11-12=-1421/0, 12-13=-642/230, 13-14=0/1122, 14-15=0/1500, 15-16=-509/574, 16-17=-509/574, 17-18=-1236/103, 18-19=-1236/103, 19-20=-1236/103, 20-21=-859/0, 21-22=0/0
BOT CHORD 45-46=0/534, 44-45=-203/863, 43-44=-203/863, 42-43=-203/863, 41-42=-720/170, 40-41=-720/170, 39-40=-1195/0, 38-39=-196/188, 37-38=-196/188, 36-37=0/1211, 35-36=0/1682, 34-35=0/1682, 33-34=0/1682, 32-33=-81/1159, 31-32=-412/75, 30-31=-412/75, 29-30=-412/75, 28-29=-1435/0, 27-28=-785/69, 26-27=-358/942, 25-26=-103/1236, 24-25=0/1158, 23-24=0/518
WEBS 3-44=-168/0, 4-43=0/194, 10-35=-98/78, 11-34=-53/123, 18-26=-286/0, 19-25=-74/77, 6-40=-751/0, 14-28=-770/0, 3-45=-176/212, 2-45=-82/248, 2-46=-641/0, 4-42=-674/0, 5-42=0/557, 5-40=-864/0, 10-36=-340/0, 9-36=0/338, 9-37=-672/0, 7-37=0/721, 7-38=0/12, 7-39=-1015/0, 6-39=0/682, 11-33=-450/0, 12-33=0/394, 12-32=-714/0, 13-32=0/770, 13-31=0/10, 13-29=-1070/0, 14-29=0/722, 17-26=0/643, 17-27=-675/0, 15-27=0/657, 15-28=-1081/0, 20-25=-203/99, 20-24=-390/42, 21-24=0/444, 21-23=-692/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	VULCAN-DW-2032 ROOF
22-0376-A	F09	Floor	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Thu Jan 20 12:10:09 2022 Page 1
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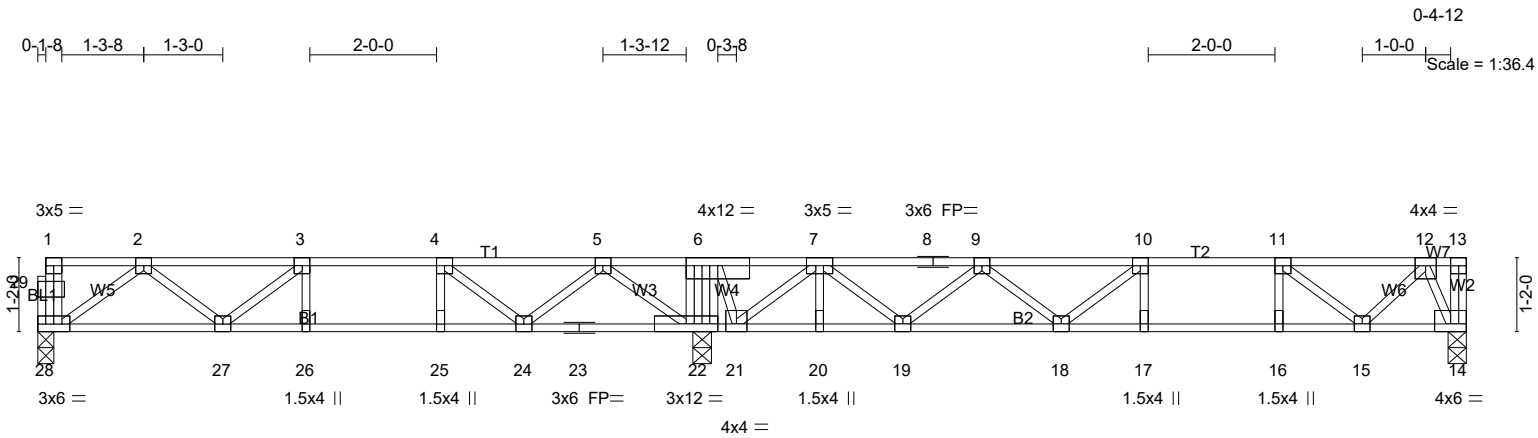

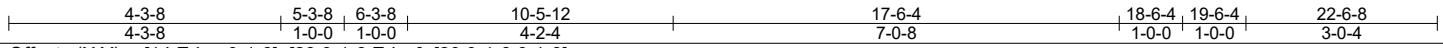

Plate Offsets (X,Y)-- [14:Edge,0-1-8], [28:0-1-8,Edge], [29:0-1-8,0-1-8]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.11	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.14	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	14	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 118 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 6-0-0 oc bracing.

REACTIONS. (lb/size) 28=333/0-3-0 (min. 0-1-8), 22=1186/0-3-8 (min. 0-1-8), 14=433/0-3-8 (min. 0-1-8)
Max Grav 28=394(LC 3), 22=1186(LC 1), 14=454(LC 7)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 28-29=-27/3, 1-29=-27/3, 13-14=-43/35, 1-2=-3/0, 2-3=-725/8, 3-4=-862/151, 4-5=-497/422, 5-6=0/1177, 6-7=0/861, 7-8=-552/31, 8-9=-552/31, 9-10=-1044/0, 10-11=-1041/0, 11-12=-540/0, 12-13=0/0
BOT CHORD 27-28=0/534, 26-27=-151/862, 25-26=-151/862, 24-25=-151/862, 23-24=-630/169, 22-23=-630/169, 21-22=-1121/0, 20-21=-179/131, 19-20=-179/131, 18-19=0/945, 17-18=0/1041, 16-17=0/1041, 15-16=0/1041, 14-15=0/217
WEBS 3-26=-159/0, 4-25=0/184, 10-17=-121/19, 11-16=0/150, 6-22=-666/0, 3-27=-175/183, 2-27=-62/248, 2-28=-641/0, 4-24=-654/0, 5-24=0/545, 5-22=-854/0, 10-18=-196/4, 9-18=0/210, 9-19=-555/0, 7-19=0/587, 7-20=0/13, 7-21=-879/0, 6-21=0/594, 11-15=-640/0, 12-15=0/465, 12-14=-486/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2015 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 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	VULCAN-DW-2032 ROOF
22-0376-A	F10	Floor	3	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Thu Jan 20 12:10:10 2022 Page 1
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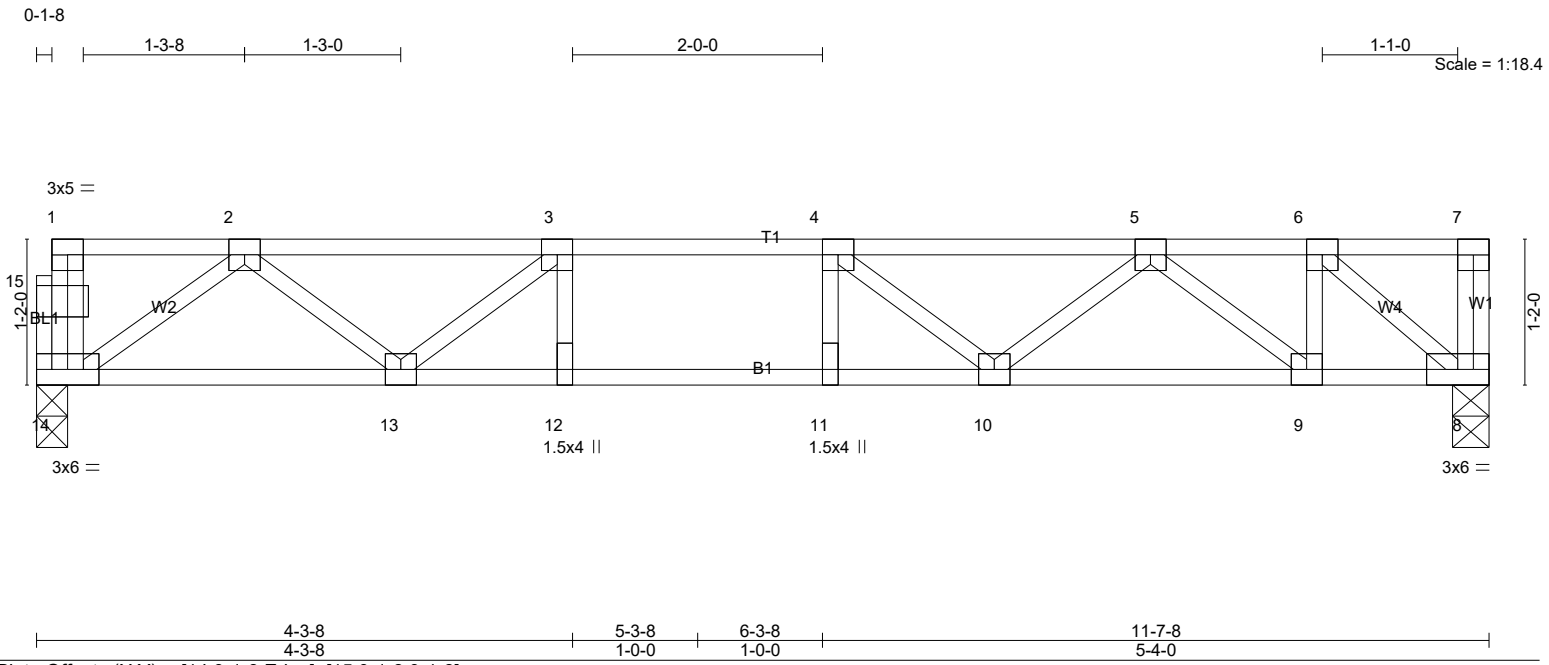

Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,0-1-8]

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	0.40	Vert(LL)	-0.09	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.12	10-11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014		Matrix-S							Weight: 61 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) 8=500/0-3-8 (min. 0-1-8), 14=491/0-3-0 (min. 0-1-8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 14-15=-37/0, 1-15=-37/0, 7-8=-48/0, 1-2=-4/0, 2-3=-986/0, 3-4=-1338/0, 4-5=-1189/0, 5-6=-547/0, 6-7=0/0
BOT CHORD 13-14=0/658, 12-13=0/1338, 11-12=0/1338, 10-11=0/1338, 9-10=0/993, 8-9=0/547
WEBS 3-12=-35/129, 4-11=-109/59, 3-13=-474/0, 2-13=0/427, 2-14=-789/0, 4-10=-294/0, 5-10=0/273, 5-9=-570/0, 6-9=0/367, 6-8=-707/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2015 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 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard