

RE: 22-1331-A
 JSJ-DEWBERRY B-WFS #44 ROOF

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: Project Name: 22-1331-A
 Lot/Block: Model:
 Address: Subdivision:
 City: State:

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.5
 Wind Code: ASCE 7-16 Wind Speed: 130 mph
 Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 20 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	I50546908	AT1	3/3/2022
2	I50546909	AT1A	3/3/2022
3	I50546910	AT1B	3/3/2022
4	I50546911	AT1C	3/3/2022
5	I50546912	AT1E	3/3/2022
6	I50546913	AT1P	3/3/2022
7	I50546914	AT2	3/3/2022
8	I50546915	AT2C	3/3/2022
9	I50546916	AT2M	3/3/2022
10	I50546917	AT3	3/3/2022
11	I50546918	ATG	3/3/2022
12	I50546919	ATP1	3/3/2022
13	I50546920	ATP2	3/3/2022
14	I50546921	ATPE	3/3/2022
15	I50546922	B1	3/3/2022
16	I50546923	B2	3/3/2022
17	I50546924	C1	3/3/2022
18	I50546925	CE	3/3/2022
19	I50546926	CG	3/3/2022
20	I50546927	M1	3/3/2022

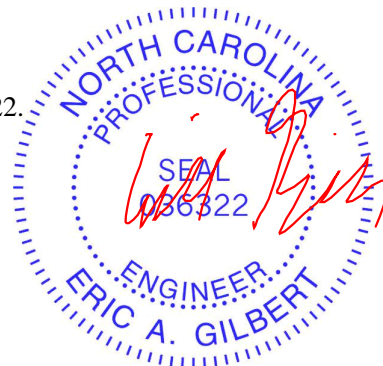
The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Riverside Roof Truss.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



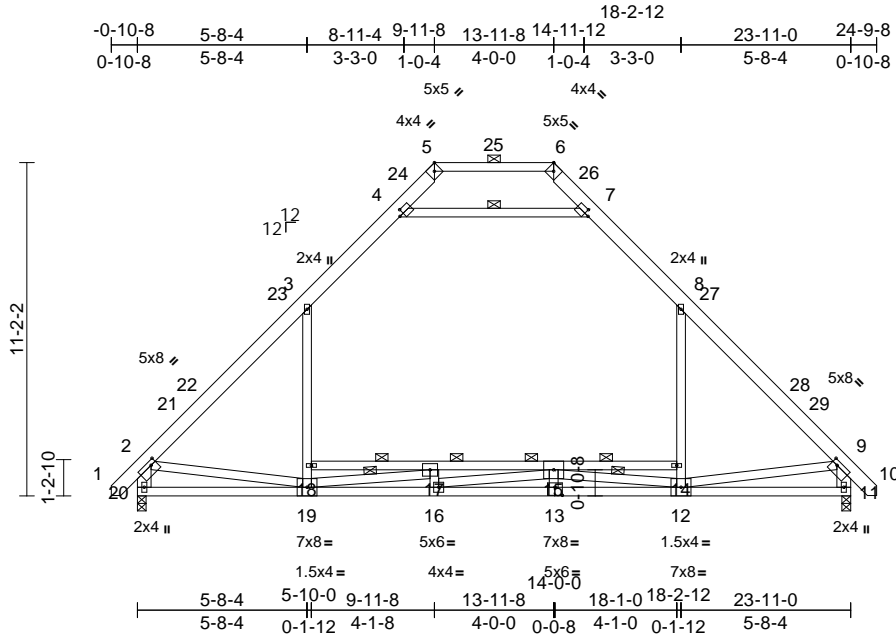
March 03, 2022

Job	Truss	Truss Type	Qty	Ply	JSJ-DEWBERRY B-WFS #44 ROOF	I50546908
22-1331-A	AT1	Attic	3	1	Job Reference (optional)	

Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 02 13:31:46
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Page: 1



Scale = 1:77.3

Plate Offsets (X, Y): [2:0-2-4,0-1-12], [4:0-1-13,0-2-0], [5:0-0-0,0-0-0], [6:0-0-0,0-0-0], [7:0-1-13,0-2-0], [9:0-2-4,0-1-12], [13:0-3-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.32	13-16	>880	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.57	13-16	>494	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.07	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS		Attic	-0.19	14-18	>781	360		
BCDL	10.0											
											Weight: 198 lb	FT = 20%

LUMBER
 TOP CHORD 2x6 SP 2400F 2.0E *Except* 5-6:2x4 SP No.3
 BOT CHORD 2x4 SP No.1 *Except* 18-14:2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* 3-19,8-12,4-7:2x4 SP No.2, 20-2,11-9:2x6 SP No.2

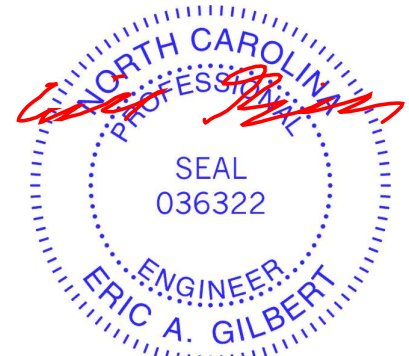
BRACING
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
 6-0-0 oc bracing: 14-18
 1 Row at midpt 4-7, 17-19, 12-15

REACTIONS
 (lb/size) 11=1212/0-3-8, 20=1212/0-3-8
 Max Horiz 20=288 (LC 14)
 Max Grav 11=1762 (LC 48), 20=1762 (LC 48)

FORCES
 (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/40, 2-3=-1914/0, 3-4=-1172/75, 4-5=-109/552, 5-6=0/801, 6-7=-109/551, 7-8=-1172/77, 8-9=-1915/0, 9-10=0/40, 2-20=-1719/0, 9-11=-1720/0
 BOT CHORD 19-20=-293/884, 16-19=0/3445, 12-16=0/3364, 11-12=-147/682, 17-18=-201/204, 15-17=-2510/0, 14-15=-208/211
 WEBS 18-19=0/597, 3-18=0/807, 12-14=0/597, 8-14=0/808, 4-7=-1907/48, 2-19=-66/699, 9-12=-85/706, 17-19=-2579/0, 16-17=0/135, 15-16=-269/289, 13-15=-16/132, 12-15=-2562/0

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-10 to 2-3-6, Interior (1) 2-3-6 to 9-11-8, Exterior(2E) 9-11-8 to 13-11-8, Exterior (2R) 13-11-8 to 18-2-15, Interior (1) 18-2-15 to 24-7-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 7-8, 4-7
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-18, 15-17, 14-15
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



March 3, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



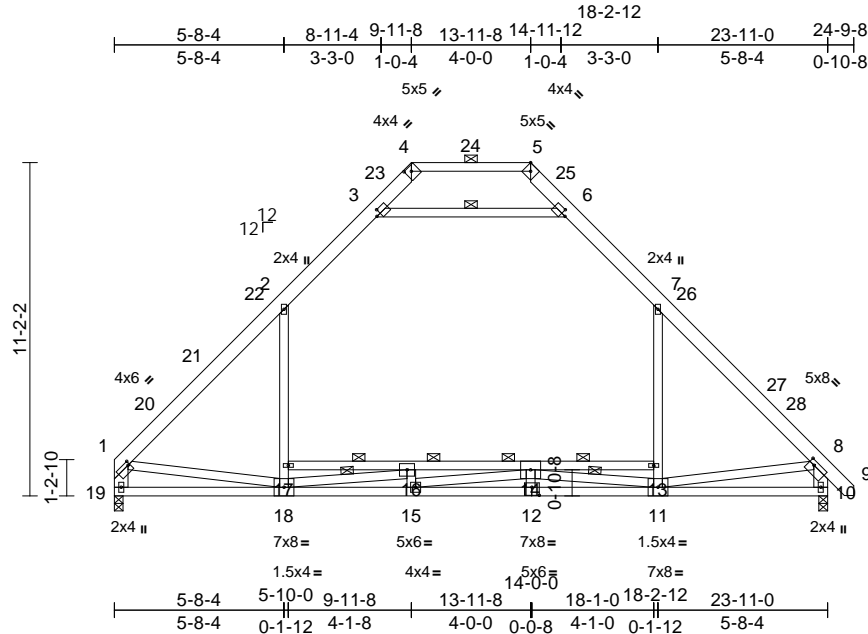
818 Soundside Road
 Edenton, NC 27932

Job 22-1331-A	Truss AT1A	Truss Type Attic	Qty 3	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	150546909
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Page: 1



Scale = 1:77.3

Plate Offsets (X, Y): [1:0-0-12,0-1-8], [3:0-1-13,0-2-0], [4:0-2-4,0-2-0], [5:0-0-0,0-0-0], [6:0-1-13,0-2-0], [8:0-2-4,0-1-12], [12:0-3-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.32	12-15	>871	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.58	12-15	>489	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.07	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS		Attic	-0.19	13-17	>780	360		
BCDL	10.0											
											Weight: 196 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* 4-5:2x4 SP No.3
BOT CHORD 2x4 SP No.1 *Except* 17-13:2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 2-18,7-11,3-6:2x4 SP No.2, 19-1,10-8:2x6 SP No.2

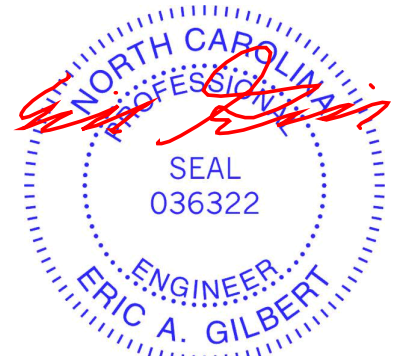
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
6-0-0 oc bracing: 13-17
WEBS 1 Row at midpt 3-6, 16-18, 11-14

REACTIONS
(lb/size) 10=1213/0-3-8, 19=1163/0-3-8
Max Horiz 19=281 (LC 12)
Max Grav 10=1763 (LC 48), 19=1721 (LC 48)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1894/0, 2-3=-1175/75, 3-4=-106/560, 4-5=0/814, 5-6=-105/559, 6-7=-1173/77, 7-8=-1917/0, 8-9=0/40, 1-19=-1675/0, 8-10=-1721/0
BOT CHORD 18-19=-276/679, 15-18=0/3460, 11-15=0/3365, 10-11=-147/681, 16-17=-207/204, 14-16=-2517/0, 13-14=-206/213
WEBS 17-18=0/570, 2-17=0/780, 11-13=0/599, 7-13=0/810, 3-6=-1924/50, 1-18=-17/832, 15-16=0/135, 16-18=-2579/0, 12-14=-17/131, 14-15=-269/296, 11-14=-2565/0, 8-11=-85/709

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 9-11-8, Exterior(2E) 9-11-8 to 13-11-8, Exterior (2R) 13-11-8 to 18-2-15, Interior (1) 18-2-15 to 24-7-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 2-3, 6-7, 3-6
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17, 14-16, 13-14
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



March 3, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate

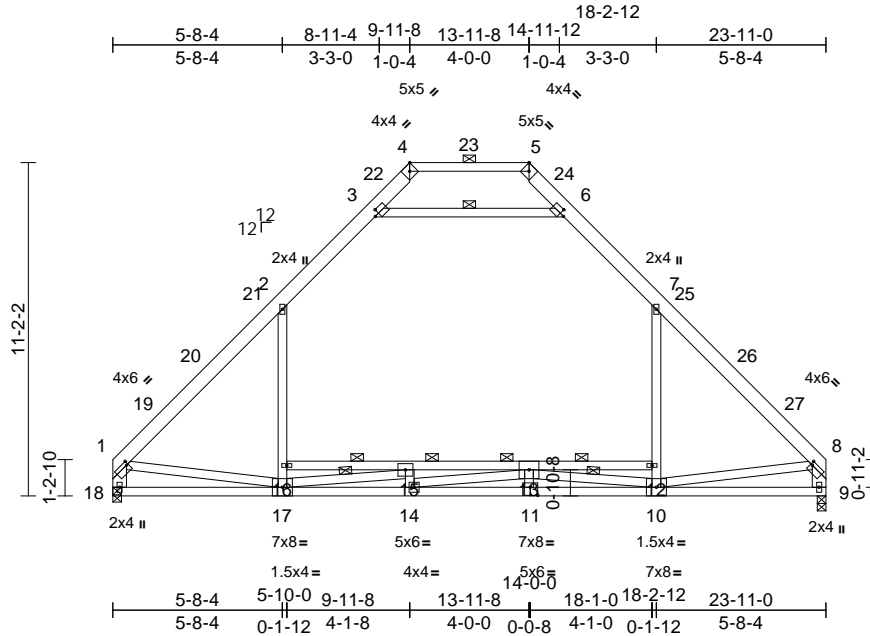
818 Soundside Road
Edenton, NC 27932

Job 22-1331-A	Truss AT1B	Truss Type Attic	Qty 4	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	150546910
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Riverside Roof Truss, LLC, Danville, Va - 24541,

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Page: 1



Scale = 1:77.3
Plate Offsets (X, Y): [1:0-0-12,0-1-8], [3:0-1-13,0-2-0], [4:0-0-0,0-0-0], [5:0-0-0,0-0-0], [6:0-1-13,0-2-0], [8:0-0-12,0-1-8], [11:0-3-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.33	11-14	>861	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.58	11-14	>484	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS		Attic	-0.19	12-16	>780	360		
BCDL	10.0										Weight: 193 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* 4-5:2x4 SP No.3
BOT CHORD 2x4 SP No.1 *Except* 16-12:2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 2-17,7-10,3-6:2x4 SP No.2, 18-1,9-8:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 12-16
WEBS 1 Row at midpt 3-6, 15-17, 10-13

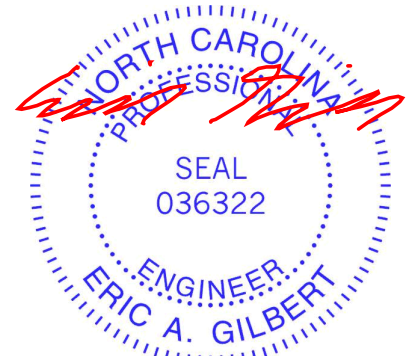
REACTIONS
(lb/size) 9=1164/0-3-8, 18=1164/0-3-8
Max Horiz 18=266 (LC 15)
Max Grav 9=1721 (LC 47), 18=1721 (LC 47)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1896/0, 2-3=-1176/74, 3-4=-101/568, 4-5=0/825, 5-6=-101/567, 6-7=-1175/78, 7-8=-1896/0, 1-18=-1677/0, 8-9=-1677/0
BOT CHORD 17-18=-285/667, 14-17=0/3451, 10-14=0/3374, 9-10=-114/478, 15-16=-206/205, 13-15=-2516/0, 12-13=-212/212
WEBS 16-17=0/572, 2-16=0/782, 10-12=0/572, 7-12=0/783, 3-6=-1937/50, 1-17=-18/836, 14-15=0/135, 15-17=-2582/0, 11-13=-17/132, 13-14=-272/292, 10-13=-2565/0, 8-10=-32/846

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 9-11-8, Exterior(2E) 9-11-8 to 13-11-8, Exterior (2R) 13-11-8 to 18-2-15, Interior (1) 18-2-15 to 23-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 2-3, 6-7, 3-6
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-16, 13-15, 12-13
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.



March 3, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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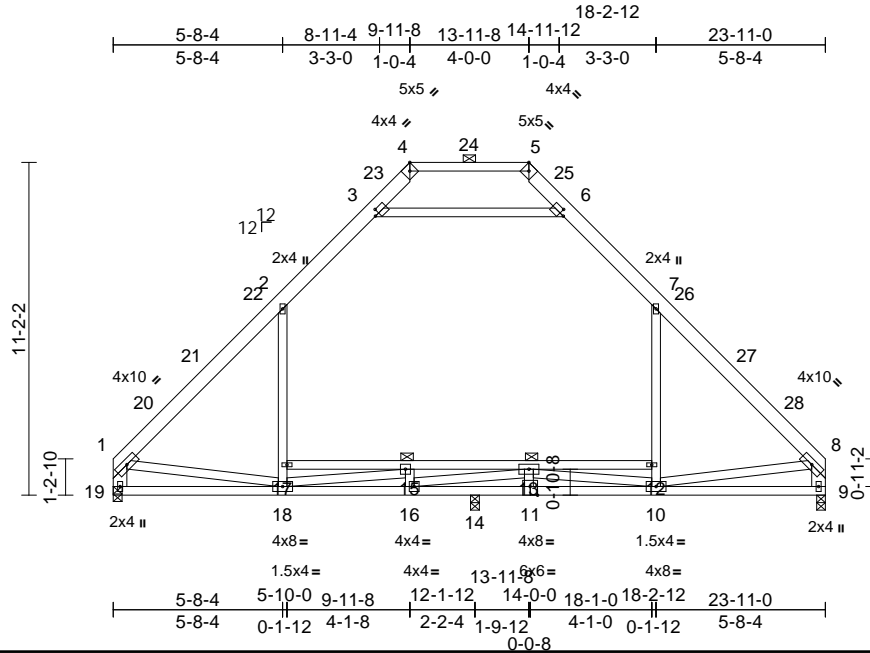
818 Soundside Road
Edenton, NC 27932

Job 22-1331-A	Truss AT1C	Truss Type Attic	Qty 2	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	I50546911
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 02 13:31:50
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Page: 1



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Plate Offsets (X, Y): [3:0-1-13,0-2-0], [4:0-0-0,0-0-0], [5:0-0-0,0-0-0], [6:0-1-13,0-2-0], [11:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	0.24	17	>592	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.31	16-18	>459	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS		Attic	0.17	12-17	>911	360		
BCDL	10.0											
											Weight: 193 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 4-5:2x4 SP No.3
BOT CHORD 2x4 SP No.2 *Except* 17-12:2x4 SP No.3, 11-19:2x4 SP DSS
WEBS 2x4 SP No.3 *Except* 2-18,7-10,3-6:2x4 SP No.2, 19-1,9-8:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 6-0-0 oc bracing: 12-17

REACTIONS (lb/size) 9=871/0-3-8, 14=577/0-3-8, 19=880/0-3-8
Max Horiz 19=266 (LC 13)
Max Grav 9=1165 (LC 41), 14=1117 (LC 49), 19=1177 (LC 41)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1262/0, 2-3=-947/101, 3-4=-227/287, 4-5=-68/405, 5-6=-229/285, 6-7=-949/107, 7-8=-1248/0, 1-19=-1118/0, 8-9=-1110/0
BOT CHORD 18-19=-321/558, 16-18=-227/695, 14-16=-146/478, 10-14=-154/478, 9-10=-133/338, 15-17=-282/209, 13-15=-345/725, 12-13=-265/226, 17-18=-121/142, 2-17=-72/289, 10-12=-131/136, 7-12=-82/270, 3-6=-1115/134, 1-18=-81/583, 15-16=-541/0, 15-18=-284/842, 11-13=-635/3, 13-16=-292/381, 10-13=-308/941, 8-10=-76/595

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 9-11-8, Exterior(2E) 9-11-8 to 13-11-8, Exterior (2R) 13-11-8 to 18-2-15, Interior (1) 18-2-15 to 23-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 2-3, 6-7, 3-6
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-17, 13-15, 12-13
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



March 3, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



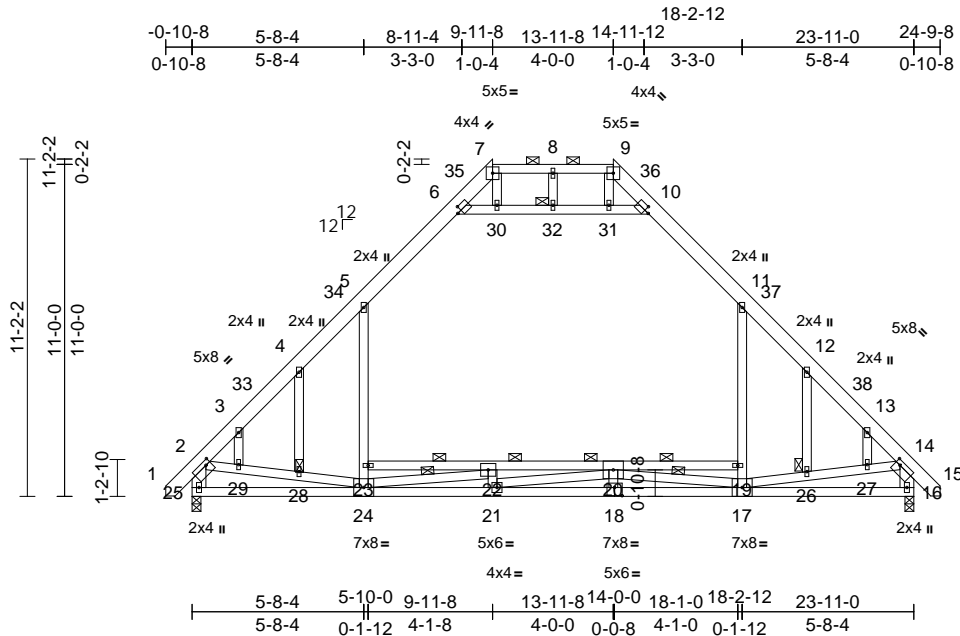
818 Soundside Road
Edenton, NC 27932

Job 22-1331-A	Truss AT1E	Truss Type Attic	Qty 1	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	150546912
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 02 13:31:50
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Page: 1

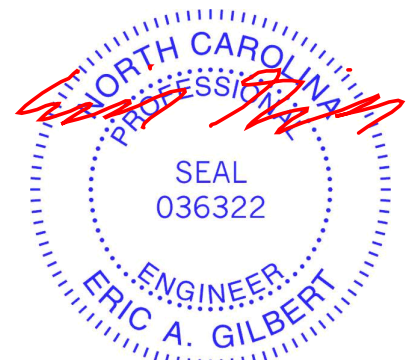


Scale = 1:76.4

Plate Offsets (X, Y): [2:0-2-0,0-1-12], [6:0-1-13,0-2-0], [10:0-1-13,0-2-0], [14:0-2-0,0-1-12], [18:0-3-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.32	18-21	>888	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.56	18-21	>499	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.07	16	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS		Attic	-0.19	19-23	>781	360		
BCDL	10.0											
											Weight: 217 lb	FT = 20%

LUMBER	WEBS	NOTES
TOP CHORD 2x6 SP 2400F 2.0E *Except* 7-9:2x4 SP No.3 BOT CHORD 2x4 SP No.1 *Except* 23-19:2x4 SP No.2 WEBS 2x4 SP No.2 *Except* 25-2,16-14:2x6 SP No.2, 24-22,22-21,21-20,20-18,20-17:2x4 SP No.3 OTHERS 2x4 SP No.3	23-24=0/648, 5-23=0/858, 17-19=0/648, 11-19=0/859, 6-30=1873/73, 30-32=1849/68, 31-32=1849/68, 10-31=1877/76, 2-29=83/639, 28-29=76/650, 24-28=90/638, 17-26=109/645, 26-27=95/657, 14-27=102/645, 12-26=205/85, 13-27=28/147, 4-28=203/84, 3-29=26/144, 7-30=71/259, 9-31=71/258, 8-32=141/39, 22-24=2581/0, 21-22=0/135, 20-21=228/248, 18-20=9/132, 17-20=2564/0	7) Provide adequate drainage to prevent water ponding. 8) All plates are 1.5x4 MT20 unless otherwise indicated. 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 10) Gable studs spaced at 2-0-0 oc. 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 13) Ceiling dead load (10.0 psf) on member(s). 5-6, 10-11, 6-30, 30-32, 31-32, 10-31 14) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 22-23, 20-22, 19-20 15) 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.
BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 7-9. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Direct: 6-0-0 oc bracing: 19-23 WEBS 1 Row at midpt 22-24, 17-20 JOINTS 1 Brace at Jt(s): 26, 28, 32	REACTIONS (lb/size) 16=1212/0-3-8, 25=1212/0-3-8 Max Horiz 25=284 (LC 14) Max Grav 16=1766 (LC 48), 25=1766 (LC 48)	3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL); Lum DOL=1.15 Plate DOL=1.15; Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 5) Unbalanced snow loads have been considered for this design. 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/40, 2-3=1944/0, 3-4=1820/0, 4-5=1795/0, 5-6=1171/76, 6-7=236/483, 7-8=0/745, 8-9=0/745, 9-10=236/482, 10-11=1170/77, 11-12=1796/0, 12-13=1820/0, 13-14=1945/0, 14-15=0/40, 2-25=1720/0, 14-16=1721/0 BOT CHORD 24-25=279/937, 21-24=0/3422, 17-21=0/3359, 16-17=138/738, 22-23=167/174, 20-22=2506/0, 19-20=174/181		



March 3, 2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JSJ-DEWBERRY B-WFS #44 ROOF	I50546912
22-1331-A	AT1E	Attic	1	1	Job Reference (optional)	

Riverside Roof Truss, LLC, Danville, Va - 24541,

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Page: 2

16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

17) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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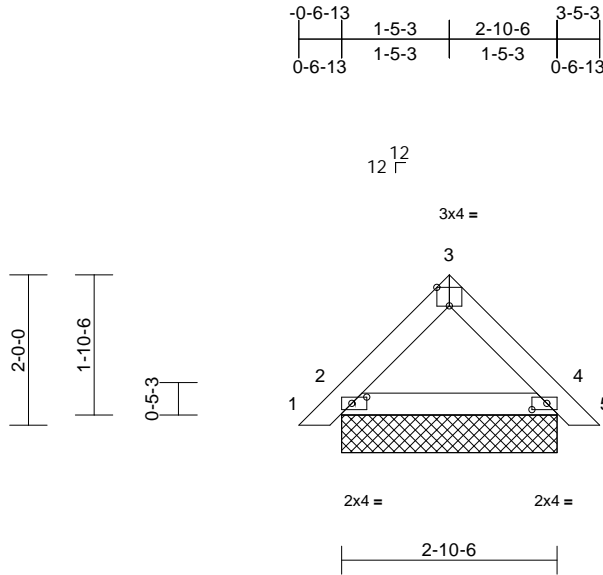
818 Soundside Road
 Edenton, NC 27932

Job 22-1331-A	Truss AT1P	Truss Type Piggyback	Qty 12	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	IS0546913
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 02 13:31:52
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Page: 1



Scale = 1:30.6

Plate Offsets (X, Y): [2:0-2-6,0-1-0], [3:0-2-0,Edge], [4:0-2-6,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
										Weight: 13 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 2=120/2-10-6, 4=120/2-10-6, 6=120/2-10-6, 9=120/2-10-6
Max Horiz 2=42 (LC 15), 6=42 (LC 15)
Max Uplift 2=-14 (LC 16), 4=-14 (LC 17), 6=-14 (LC 16), 9=-14 (LC 17)
Max Grav 2=148 (LC 23), 4=148 (LC 24), 6=148 (LC 23), 9=148 (LC 24)

FORCES

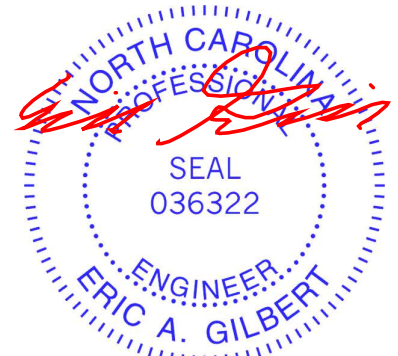
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/19, 2-3=-75/52, 3-4=-75/63, 4-5=0/19
BOT CHORD 2-4=-11/57

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 2, 14 lb uplift at joint 4, 14 lb uplift at joint 2 and 14 lb uplift at joint 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



March 3, 2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



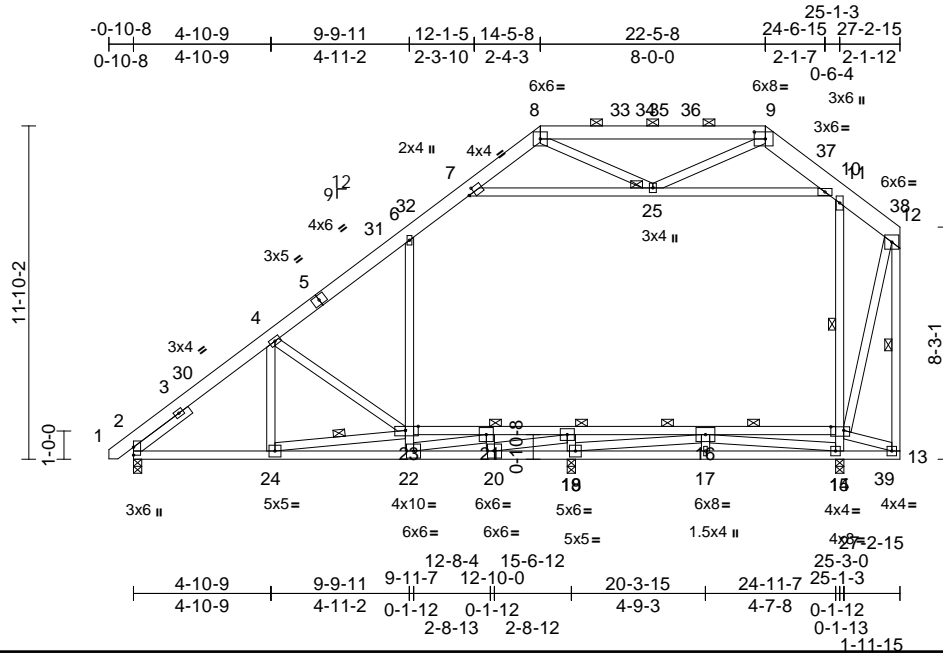
818 Soundside Road
Edenton, NC 27932

Job 22-1331-A	Truss AT2	Truss Type Attic	Qty 6	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	150546914
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Riverside Roof Truss, LLC, Danville, Va - 24541,

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Page: 1



Scale = 1:81.9

Plate Offsets (X, Y): [7:0-2-7,0-2-0], [9:0-4-12,0-3-0], [15:0-5-8,0-1-8], [23:0-5-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.19	22-24	>976	360
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.36	22-24	>519	240
TCDL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.02	19	n/a	n/a
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS		Attic	0.13	15-23	>999	360
BCDL	10.0									
										Weight: 276 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 9-12:2x8 SP DSS
BOT CHORD 2x4 SP No.1 *Except* 20-13:2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 6-22,22-21,20-18:2x4 SP No.2
SLIDER Left 2x4 SP No.3 -- 2-6-0
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-9.
BOT CHORD Rigid ceiling directly applied or 3-3-7 oc bracing. Except: 10-0-0 oc bracing: 15-23
WEBS 1 Row at midpt 11-15, 12-13, 23-24
JOINTS 1 Brace at Jt(s): 25
REACTIONS (lb/size) 2=729/0-3-8, 14=901/0-3-8, 19=1169/0-3-8
Max Horiz 2=368 (LC 15)
Max Uplift 2=-25 (LC 16)
Max Grav 2=857 (LC 42), 14=1122 (LC 48), 19=1942 (LC 50)

WEBS
22-23=-877/222, 6-23=-667/139, 14-15=-833/120, 11-15=-1224/202, 7-25=-179/672, 10-25=-410/204, 12-15=-130/960, 18-19=-1393/0, 16-19=-2024/0, 16-17=0/150, 14-16=-1164/0, 4-23=-698/234, 4-24=-12/498, 23-24=-2357/352, 13-15=-105/1334, 8-25=-130/171, 9-25=0/487, 21-22=-492/2935, 20-21=-901/72, 18-20=-237/3060

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-9 to 2-3-7, Interior (1) 2-3-7 to 14-5-8, Exterior(2R) 14-5-8 to 18-8-7, Interior (1) 18-8-7 to 22-5-8, Exterior(2R) 22-5-8 to 26-8-7, Interior (1) 26-8-7 to 27-1-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 9) Ceiling dead load (10.0 psf) on member(s). 6-7, 10-11, 7-25, 10-25
 - 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 21-23, 18-21, 16-18, 15-16
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 2.
 - 12) 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.
 - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 14) Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard



March 3, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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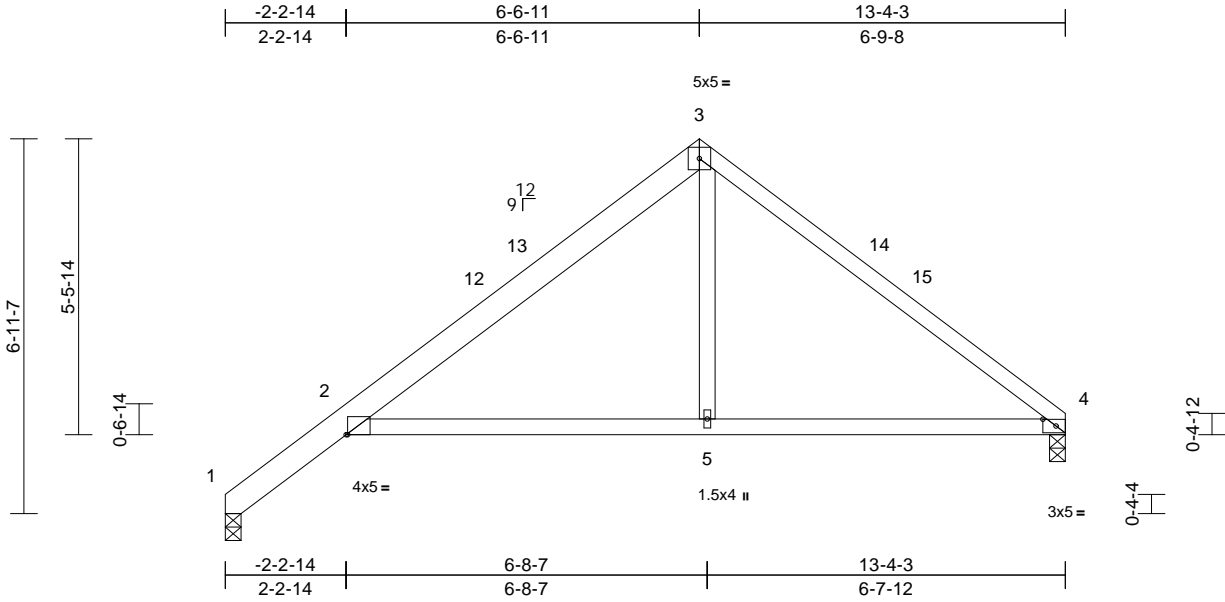
818 Soundside Road
Edenton, NC 27932

Job 22-1331-A	Truss AT2C	Truss Type Roof Special	Qty 1	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	I50546915
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 02 13:31:54
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Page: 1



Scale = 1:42.8

Plate Offsets (X, Y): [2:0-0-5,Edge], [4:0-2-15,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	0.22	5-11	>846	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.41	5-11	>456	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.21	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 66 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* 3-4:2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-10-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=565/0-3-8, 4=549/0-3-8
Max Horiz 1=151 (LC 13)
Max Uplift 1=40 (LC 16), 4=39 (LC 17)
Max Grav 1=636 (LC 2), 4=620 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-401/78, 2-3=-1485/188, 3-4=-783/160
BOT CHORD 2-5=-261/1173, 4-5=-69/540
WEBS 3-5=0/346

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 1 and 39 lb uplift at joint 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.

LOAD CASE(S) Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-9-9, Exterior(2R) 8-9-9 to 11-9-9, Interior (1) 11-9-9 to 15-7-1 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10



March 3, 2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

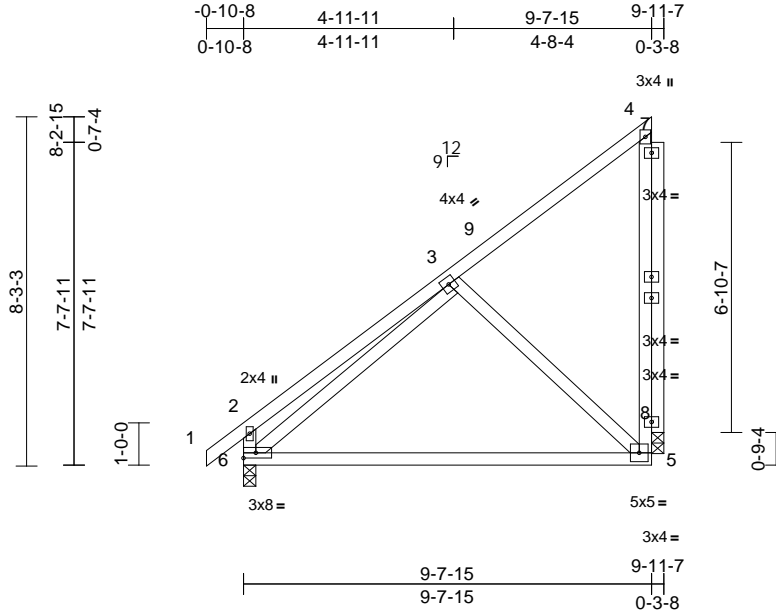


Job 22-1331-A	Truss AT2M	Truss Type Monopitch	Qty 1	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	I50546916
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 02 13:31:55
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Page: 1



Scale = 1:54.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.22	5-6	>517	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.43	5-6	>259	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	-0.02	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 75 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS (lb/size) 6=386/0-3-8, 8=965/0-3-8
Max Horiz 6=290 (LC 13)
Max Uplift 6=-20 (LC 16), 8=-233 (LC 16)
Max Grav 6=439 (LC 2), 8=1226 (LC 30)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-330/124, 3-4=-202/162, 5-8=-131/296, 4-8=-936/336, 2-6=-340/181
BOT CHORD 5-6=-280/327
WEBS 3-5=-295/270, 3-6=-255/299

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 9-6-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 6 and 233 lb uplift at joint 8.
- 9) 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.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 801 lb down and 170 lb up at 9'-6-3 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-51, 2-4=-51, 5-6=-20
Concentrated Loads (lb)
Vert: 4=-636 (F)



March 3, 2022

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 22-1331-A	Truss AT3	Truss Type Attic	Qty 7	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	I50546917
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.53 E Dec 6 2021 Print: 8.530 E Dec 6 2021 MiTek Industries, Inc. Thu Mar 03 13:01:48
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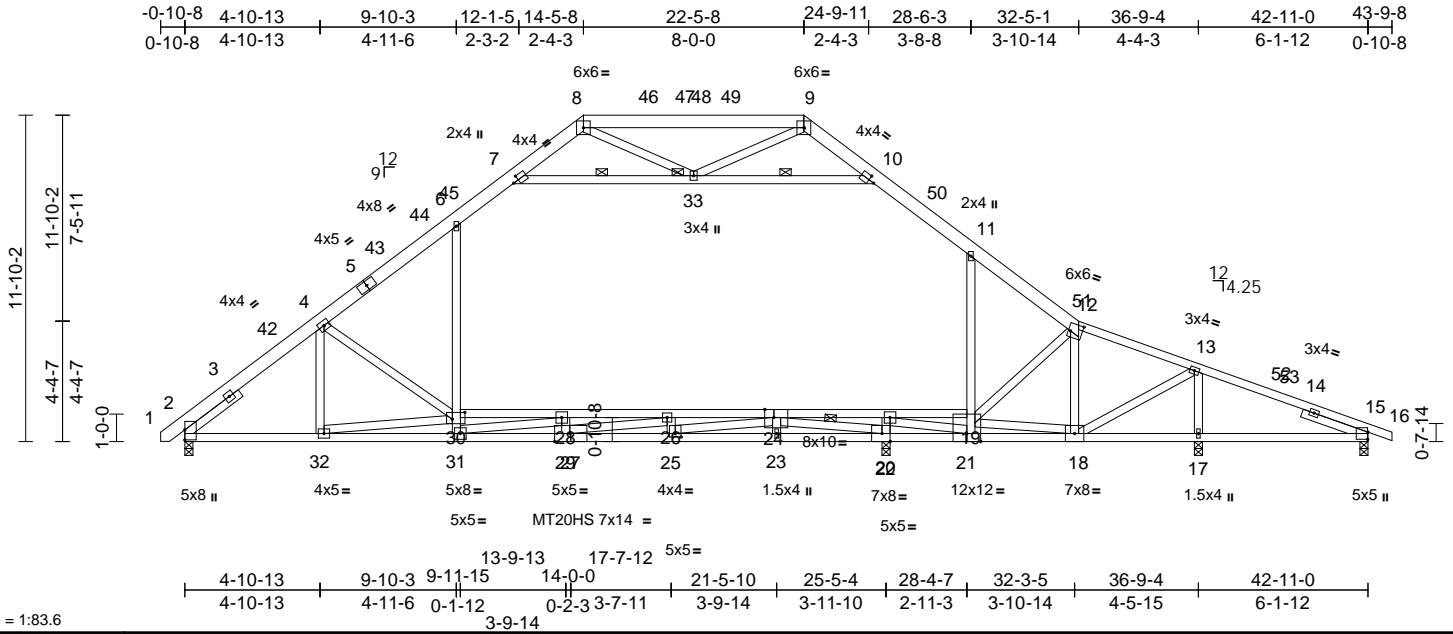


Plate Offsets (X, Y): [7:0-2-7,0-2-0], [10:0-2-7,0-2-0], [12:0-5-0,0-3-8], [15:0-3-2,0-0-2], [22:0-3-8,Edge], [24:0-4-0,Edge], [25:0-2-8,0-1-8], [27:0-6-9,Edge], [30:0-5-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.60	28-30	>512	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-1.05	28-30	>290	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.18	15	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS		Attic	-0.44	19-30	>509	360		
BCDL	10.0											
											Weight: 343 lb	FT = 20%

LUMBER	TOP CHORD	2-3=-834/44, 3-42=-2730/14, 4-42=-2679/34,	2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-9 to 3-6-15, Interior (1) 3-6-15 to 14-5-8, Exterior(2R) 14-5-8 to 18-9-0, Interior (1) 18-9-0 to 22-5-8, Exterior(2R) 22-5-8 to 26-9-0, Interior (1) 26-9-0 to 43-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x6 SP 2400F 2.0E *Except* 8-9,1-5:2x6 SP No.2, 12-16:2x4 SP No.2	4-5=-2278/46, 5-43=-2160/58, 43-44=-2085/73, 6-44=-2073/78, 6-45=-1593/183, 7-45=-1574/208, 7-8=-878/182, 8-46=-798/118, 46-47=-798/118, 47-48=-798/118, 48-49=-798/118, 9-49=-798/118, 9-10=-787/265, 10-50=-1608/197, 11-50=-1785/178, 11-51=-2055/105, 12-51=-2070/56, 12-13=-2365/0, 13-52=-2321/0, 52-53=-2360/0, 14-53=-2376/0, 14-15=-837/0	3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15; Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
BOT CHORD	2x4 SP DSS *Except* 21-15:2x4 SP No.2, 24-19:2x4 SP No.1	2-32=-143/2297, 31-32=-105/4322, 29-31=0/5709, 27-29=0/5709, 25-27=0/5483, 23-25=0/3458, 22-23=0/3457, 21-22=-612/535, 17-18=0/2213, 15-17=0/2213, 28-30=-2788/254, 26-28=-4141/0, 24-26=-4278/0, 20-24=-101/2055, 19-20=0/438	4) Unbalanced snow loads have been considered for this design.
WEBS	2x4 SP No.3 *Except* 6-31,7-10:2x4 SP No.2, 11-21:2x4 SP No.1	30-31=0/579, 6-30=0/880, 19-21=-240/262, 11-19=-215/382, 12-21=-953/26, 12-18=-353/205, 13-18=-304/774, 13-17=-860/401, 7-33=-1432/85, 10-33=-1940/76, 4-30=-755/197, 4-32=0/331, 30-32=-2047/87, 18-21=0/2259, 20-22=-977/0, 20-21=-255/1764, 9-33=0/499, 25-26=-393/0, 28-31=-2121/0, 26-27=-263/434, 24-25=0/2132, 22-24=-3882/0	5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
SLIDER	Left 2x4 SP No.3 -- 2-6-0, Right 2x4 SP No.3 -- 2-6-0		
BRACING			
TOP CHORD	Structural wood sheathing directly applied or 2-7-13 oc purlins, except 2-0-0 oc purlins (5-11-7 max.): 8-9.		
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 21-22 1-4-12 oc bracing: 15-17 2-2-0 oc bracing: 28-30 3-0-0 oc bracing: 24-26 3-1-0 oc bracing: 26-28 10-0-0 oc bracing: 19-24		
WEBS	1 Row at midpt 7-33, 10-33, 22-24		
JOINTS	1 Brace at Jt(s): 30, 33, 19, 28, 26, 24		
REACTIONS	All bearings 0-3-8. (lb) - Max Horiz 2=-285 (LC 14) Max Uplift All uplift 100 (lb) or less at joint(s) 15 except 17=-380 (LC 17) Max Grav All reactions 250 (lb) or less at joint (s) except 2=1997 (LC 54), 15=1130 (LC 31), 17=990 (LC 62), 22=1933 (LC 23)		
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
NOTES	1) Unbalanced roof live loads have been considered for this design.		



Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	JSJ-DEWBERRY B-WFS #44 ROOF
22-1331-A	AT3	Attic	7	1	I50546917
					Job Reference (optional)

Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.53 E Dec 6 2021 Print: 8.530 E Dec 6 2021 MiTek Industries, Inc. Thu Mar 03 13:01:48
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Page: 2

- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (10.0 psf) on member(s). 6-7, 10-11, 11-12, 7-33, 10-33
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 28-30, 26-28, 24-26, 20-24, 19-20
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 except (jt=lb) 17=379.
- 13) 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.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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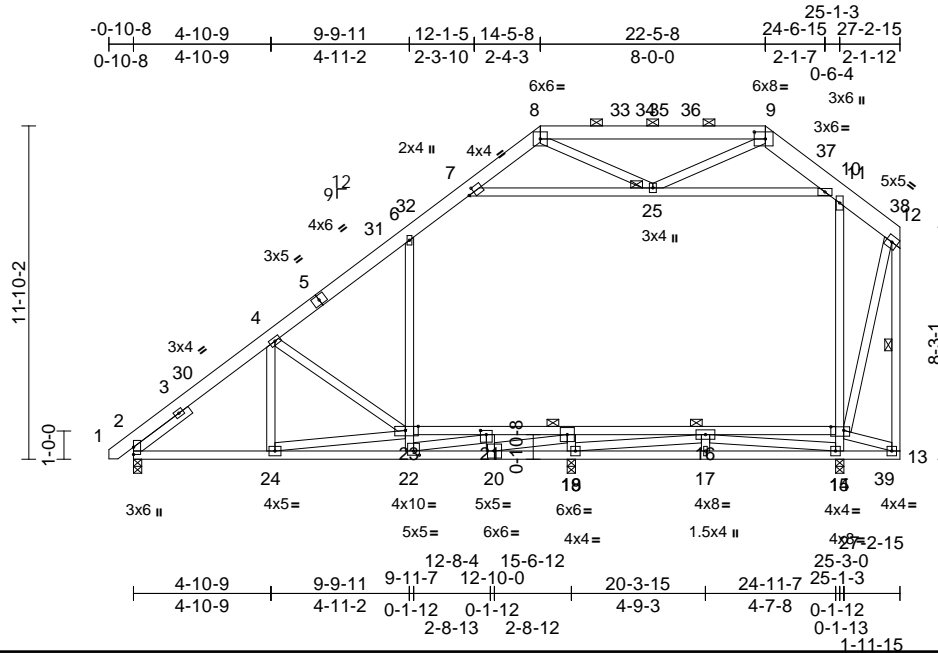
818 Soundside Road
Edenton, NC 27932

Job 22-1331-A	Truss ATG	Truss Type Attic Girder	Qty 2	Ply 2	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	150546918
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 02 13:31:57
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Page: 1



Scale = 1:81.9

Plate Offsets (X, Y): [7:0-2-7,0-2-0], [9:0-4-12,0-3-0], [15:0-5-8,0-1-8], [21:0-2-8,0-1-12], [22:0-2-8,0-1-12], [23:0-5-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.10	22-24	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.29	22-24	>640	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.02	19	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS		Attic	0.07	15-23	>999	360		
BCDL	10.0											
											Weight: 552 lb	FT = 20%

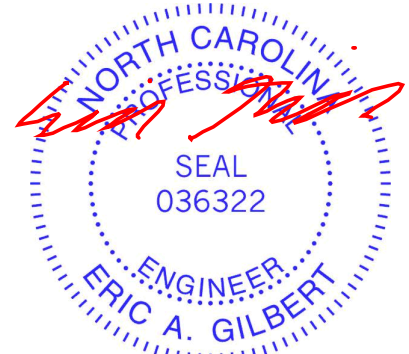
LUMBER	
TOP CHORD	2x6 SP No.2 *Except* 9-12:2x8 SP DSS
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 6-22:2x4 SP No.2
SLIDER	Left 2x4 SP No.3 -- 2-6-0
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-9.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 15-23
WEBS	1 Row at midpt 12-13
JOINTS	1 Brace at Jt(s): 25
REACTIONS	(lb/size)
	2=950/0-3-8, 14=864/0-3-8, 19=1646/0-3-8
Max Horiz	2=368 (LC 15)
Max Grav	2=1078 (LC 42), 14=1085 (LC 48), 19=2417 (LC 50)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/26, 2-4=-1379/0, 4-6=-683/0, 6-7=-592/74, 7-8=-880/192, 8-9=-657/193, 9-10=-588/338, 10-11=-701/9, 11-12=-101/208, 12-13=-644/0
BOT CHORD	2-24=-159/1132, 22-24=0/4695, 19-22=-3604/676, 17-19=-1817/0, 14-17=-1817/0, 13-14=-1564/0, 21-23=-4533/0, 18-21=-125/66, 16-18=0/3989, 15-16=0/1999

WEBS	
	22-23=-703/382, 6-23=-500/292, 14-15=-859/98, 11-15=-1479/0, 7-25=-329/514, 10-25=-742/0, 12-15=0/1326, 16-17=-3/140, 18-19=-1781/0, 14-16=-809/322, 4-24=0/699, 23-24=-3604/0, 13-15=0/1703, 4-23=-888/36, 16-19=-2378/0, 8-25=-219/93, 9-25=0/591, 20-21=-1257/0, 21-22=0/4424, 18-20=0/4277

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-9 to 2-3-7, Interior (1) 2-3-7 to 14-5-8, Exterior(2R) 14-5-8 to 18-8-7, Interior (1) 18-8-7 to 22-5-8, Exterior(2R) 22-5-8 to 26-8-7, Interior (1) 26-8-7 to 27-1-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL); Lum DOL=1.15 Plate DOL=1.15; Pg=20.0 psf; Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-0 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 6-7, 10-11, 7-25, 10-25
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 21-23, 18-21, 16-18, 15-16
- 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.



March 3, 2022

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job 22-1331-A	Truss ATG	Truss Type Attic Girder	Qty 2	Ply 2	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	I50546918
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 02 13:31:57
ID:2jV9i?VKiOO680cjmX1CPGzf_Bi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- 14) 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.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-51, 6-7=-71, 7-8=-51, 8-9=-61, 9-10=-51, 10-11=-71, 11-12=-51, 13-26=-20, 15-23=-30, 7-25=-20, 10-25=-20
Concentrated Loads (lb)
Vert: 22=-660

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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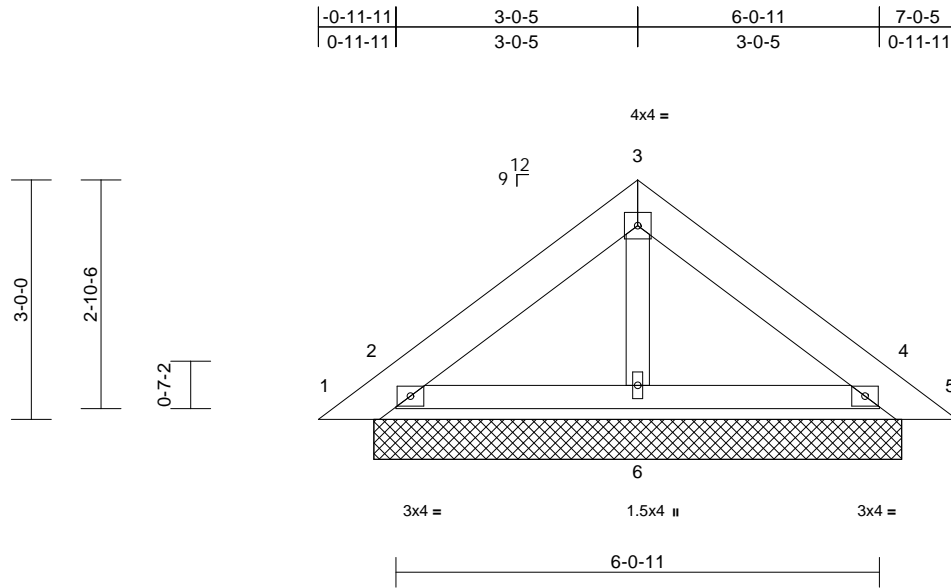
818 Soundside Road
Edenton, NC 27932

Job 22-1331-A	Truss ATP1	Truss Type Piggyback	Qty 11	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	150546919
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 02 13:31:58
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Page: 1



Scale = 1:28.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.06	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	4	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0									Weight: 35 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

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

REACTIONS

(lb/size) 1=-75/6-7-5, 2=277/6-7-5, 4=266/6-7-5, 5=73/6-7-5, 6=133/6-7-5, 7=277/6-7-5, 10=266/6-7-5
Max Horiz 1=-64 (LC 14)
Max Uplift 1=-126 (LC 30), 2=-115 (LC 16), 4=-105 (LC 17), 5=-120 (LC 24), 7=-115 (LC 16), 10=-105 (LC 17)
Max Grav 1=78 (LC 16), 2=380 (LC 23), 4=369 (LC 24), 5=53 (LC 17), 6=147 (LC 2), 7=380 (LC 23), 10=369 (LC 24)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-86/140, 2-3=-119/90, 3-4=-120/89, 4-5=-52/99
BOT CHORD 2-6=-34/52, 4-6=-34/52
WEBS 3-6=-80/3

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-9 to 3-4-9, Interior (1) 3-4-9 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-5, Interior (1) 7-0-5 to 7-7-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 1, 120 lb uplift at joint 5, 115 lb uplift at joint 2, 105 lb uplift at joint 4, 115 lb uplift at joint 2 and 105 lb uplift at joint 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



March 3, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



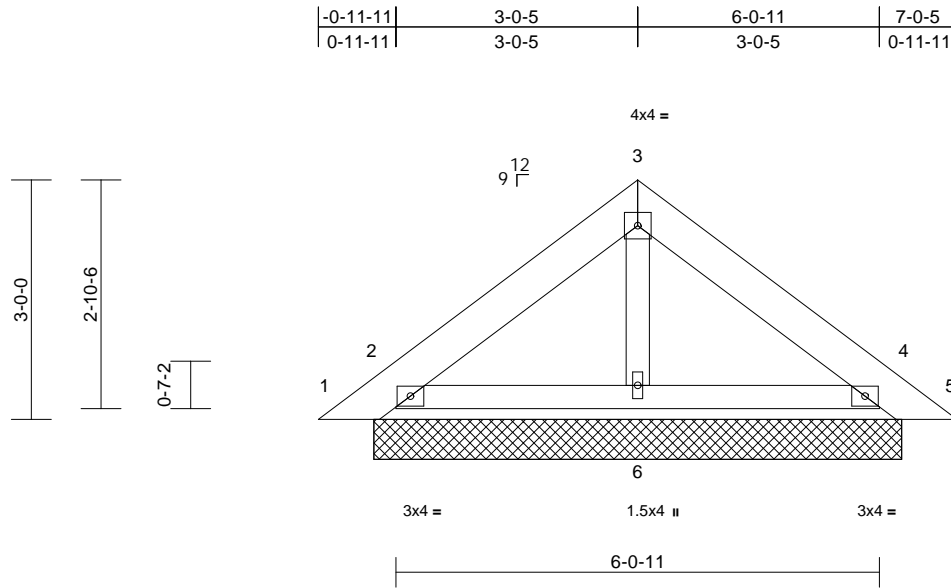
818 Soundside Road
Edenton, NC 27932

Job 22-1331-A	Truss ATP2	Truss Type Piggyback	Qty 2	Ply 2	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	I50546920
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Riverside Roof Truss, LLC, Danville, Va - 24541,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 71 lb	FT = 20%

LUMBER
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

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

REACTIONS (lb/size)
 1=-69/6-7-5, 2=267/6-7-5, 4=257/6-7-5, 5=67/6-7-5, 6=139/6-7-5, 7=267/6-7-5, 10=257/6-7-5
 Max Horiz 1=-64 (LC 12)
 Max Uplift 1=-118 (LC 30), 2=-112 (LC 16), 4=-102 (LC 17), 5=-111 (LC 24), 7=-112 (LC 16), 10=-102 (LC 17)
 Max Grav 1=76 (LC 16), 2=367 (LC 23), 4=357 (LC 24), 5=51 (LC 17), 6=154 (LC 2), 7=367 (LC 23), 10=357 (LC 24)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-86/136, 2-3=-116/88, 3-4=-116/88, 4-5=-50/94
 BOT CHORD 2-6=-27/50, 4-6=-27/50
 WEBS 3-6=-85/5

NOTES
 1) 2-ply truss to be connected together as follows:
 Top chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-9 to 3-4-9, Interior (1) 3-4-9 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-5, Interior (1) 7-0-5 to 7-7-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 1, 111 lb uplift at joint 5, 112 lb uplift at joint 2, 102 lb uplift at joint 4, 112 lb uplift at joint 2 and 102 lb uplift at joint 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.

14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
LOAD CASE(S) Standard



March 3, 2022

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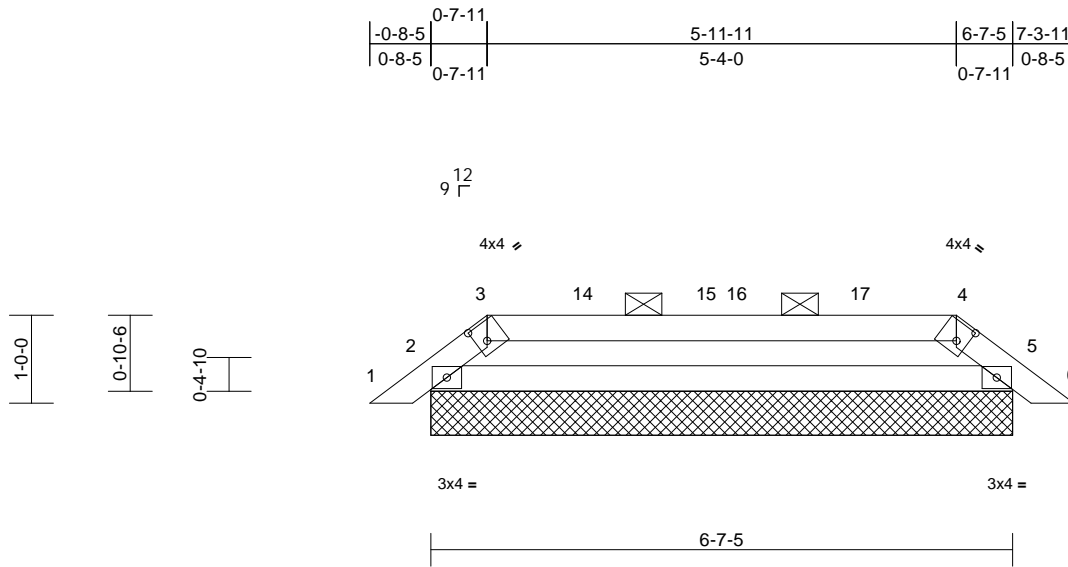
818 Soundside Road
 Edenton, NC 27932

Job 22-1331-A	Truss ATPE	Truss Type Piggyback	Qty 2	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	150546921
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Riverside Roof Truss, LLC, Danville, Va - 24541,

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Page: 1



Scale = 1:26.2

Plate Offsets (X, Y): [3:0-1-7,0-2-6], [4:0-1-7,0-2-6]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0											
										Weight: 23 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except 2-0-0 oc purlins (5-0-6 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 2=284/6-7-5, 5=291/6-7-5, 7=284/6-7-5, 11=291/6-7-5
Max Horiz 2=-20 (LC 14), 7=-20 (LC 14)
Max Uplift 2=-39 (LC 16), 5=-32 (LC 17), 7=-39 (LC 16), 11=-32 (LC 17)
Max Grav 2=353 (LC 40), 5=360 (LC 40), 7=353 (LC 40), 11=360 (LC 40)

FORCES

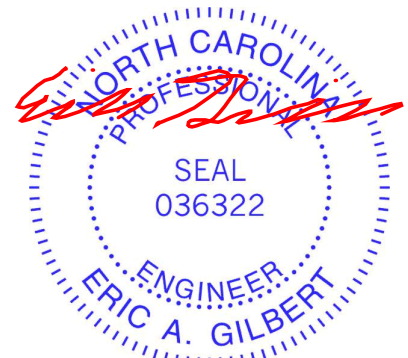
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/26, 2-3=-721/220, 3-4=-731/196, 4-5=-722/220, 5-6=0/26
BOT CHORD 2-5=-154/731

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-15 to 1-4-0, Exterior(2R) 1-4-0 to 5-6-15, Interior (1) 5-6-15 to 6-8-0, Exterior(2E) 6-8-0 to 7-9-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) The Fabrication Tolerance at joint 3 = 12%, joint 4 = 12%
- 9) Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2, 32 lb uplift at joint 5, 39 lb uplift at joint 2 and 32 lb uplift at joint 5.
- 14) 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.
- 15) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



March 3, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



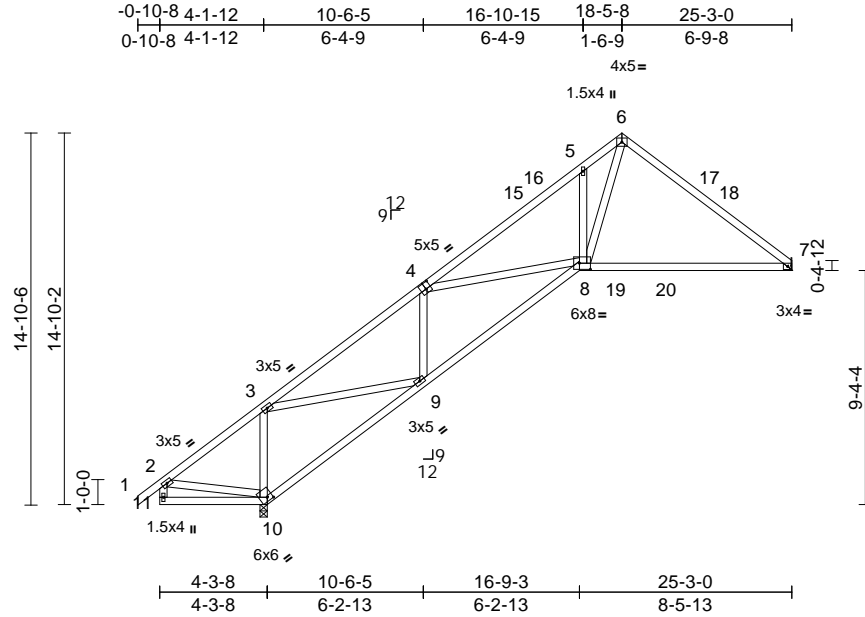
818 Soundside Road
Edenton, NC 27932

Job 22-1331-A	Truss B1	Truss Type Roof Special	Qty 7	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	150546922
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Page: 1



Scale = 1:92

Plate Offsets (X, Y): [4:0-2-8,0-3-0], [8:0-5-4,0-3-0], [10:0-2-8,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.25	8-14	>990	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.48	8-14	>528	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.10	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 141 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING

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 (lb/size) 7=701/ Mechanical, 10=1128/0-3-8
Max Horiz 10=412 (LC 16)
Max Uplift 7=-157 (LC 16), 10=-74 (LC 16)
Max Grav 7=942 (LC 30), 10=1354 (LC 30)

FORCES (lb) - Maximum Compression/Maximum Tension

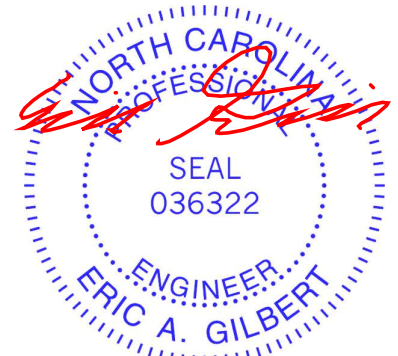
TOP CHORD 1-2=0/37, 2-3=-176/333, 3-5=-1738/421,
5-6=-1709/573, 6-7=-1168/321, 2-11=-80/73
BOT CHORD 10-11=-37/40, 9-10=-531/193,
8-9=-666/1595, 7-8=-178/907
WEBS 3-10=-1110/358, 3-9=-197/1300,
4-9=-544/198, 4-8=-22/271, 5-8=-339/226,
6-8=-538/1546, 2-10=-230/226

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 18-5-8, Exterior(2R) 18-5-8 to 21-5-8, Interior (1) 21-5-8 to 25-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 7 and 74 lb uplift at joint 10.
- 10) 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.

LOAD CASE(S) Standard



March 3, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



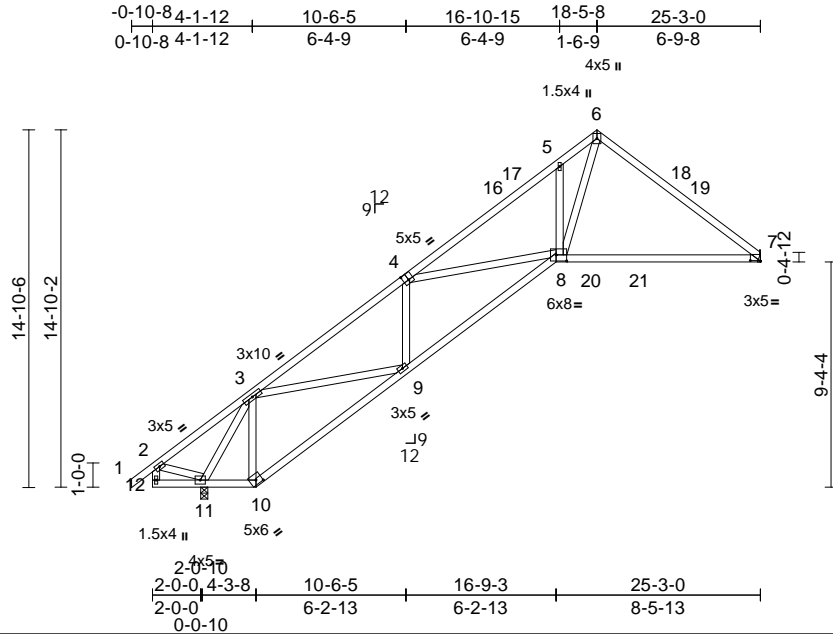
818 Soundside Road
Edenton, NC 27932

Job 22-1331-A	Truss B2	Truss Type Roof Special	Qty 2	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	150546923
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 02 13:31:59
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Page: 1



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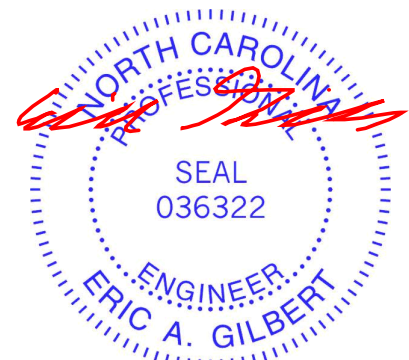
Plate Offsets (X, Y): [4:0-2-8,0-3-4], [7:0-5-0,0-0-5], [8:0-5-4,0-3-0], [10:0-3-0,0-2-2]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.26	8-15	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.49	8-15	>564	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.12	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 144 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x4 SP No.2
 - BOT CHORD 2x4 SP No.2
 - WEBS 2x4 SP No.3
- BRACING**
- 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** (lb/size) 7=806/ Mechanical, 11=1023/0-3-8
- Max Horiz 11=412 (LC 16)
 - Max Uplift 7=-164 (LC 16), 11=-67 (LC 16)
 - Max Grav 7=1069 (LC 30), 11=1255 (LC 30)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/37, 2-3=-88/254, 3-5=-2083/443, 5-6=-2050/591, 6-7=-1377/333, 2-12=-33/28
 - BOT CHORD 11-12=-14/50, 10-11=-368/637, 9-10=-465/855, 8-9=-698/2199, 7-8=-187/1075
 - WEBS 3-11=-1269/84, 3-10=-328/319, 3-9=-186/1097, 4-9=-414/191, 4-8=-123/189, 5-8=-335/225, 6-8=-556/1891, 2-11=-179/129

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 7 and 67 lb uplift at joint 11.
 - 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.
- LOAD CASE(S)** Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 18-5-8, Exterior(2R) 18-5-8 to 21-5-8, Interior (1) 21-5-8 to 25-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



March 3, 2022

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ENGINEERING BY
TRENCO
A MiTek Affiliate

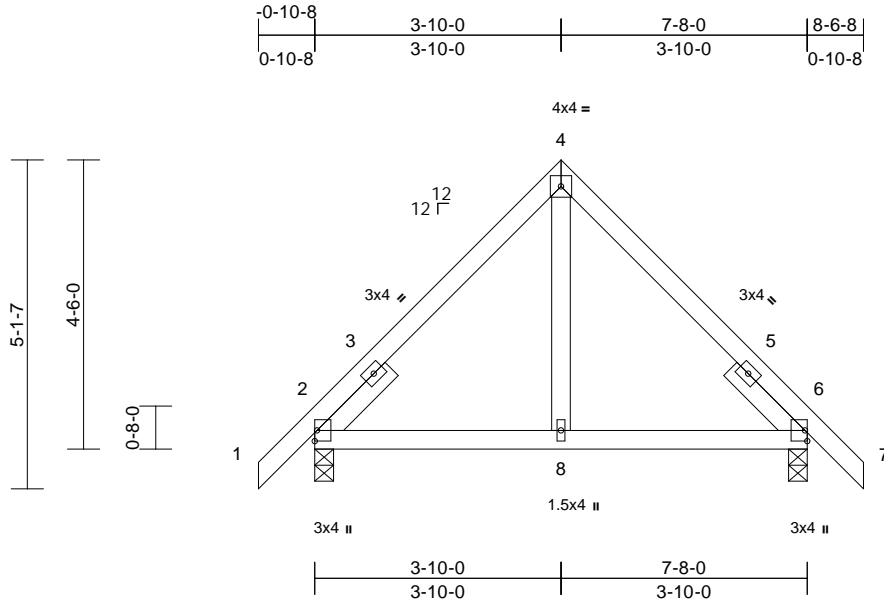
818 Soundside Road
Edenton, NC 27932

Job 22-1331-A	Truss C1	Truss Type Common	Qty 4	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	I50546924
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 02 13:32:00
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.01	8-11	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.01	8-11	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
										Weight: 42 lb	FT = 20%	

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3 -- 1-6-0

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

REACTIONS	(lb/size)
	2=313/0-3-8, 6=313/0-3-8
Max Horiz	2=-111 (LC 14)
Max Uplift	2=-35 (LC 16), 6=-35 (LC 17)
Max Grav	2=392 (LC 23), 6=392 (LC 24)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/43, 2-4=-284/153, 4-6=-284/153, 6-7=0/43
BOT CHORD	2-8=0/163, 6-8=0/163
WEBS	4-8=-58/160

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-10-0, Exterior(2R) 3-10-0 to 6-10-0, Interior (1) 6-10-0 to 8-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 35 lb uplift at joint 6.
- 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.

LOAD CASE(S) Standard



March 3, 2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



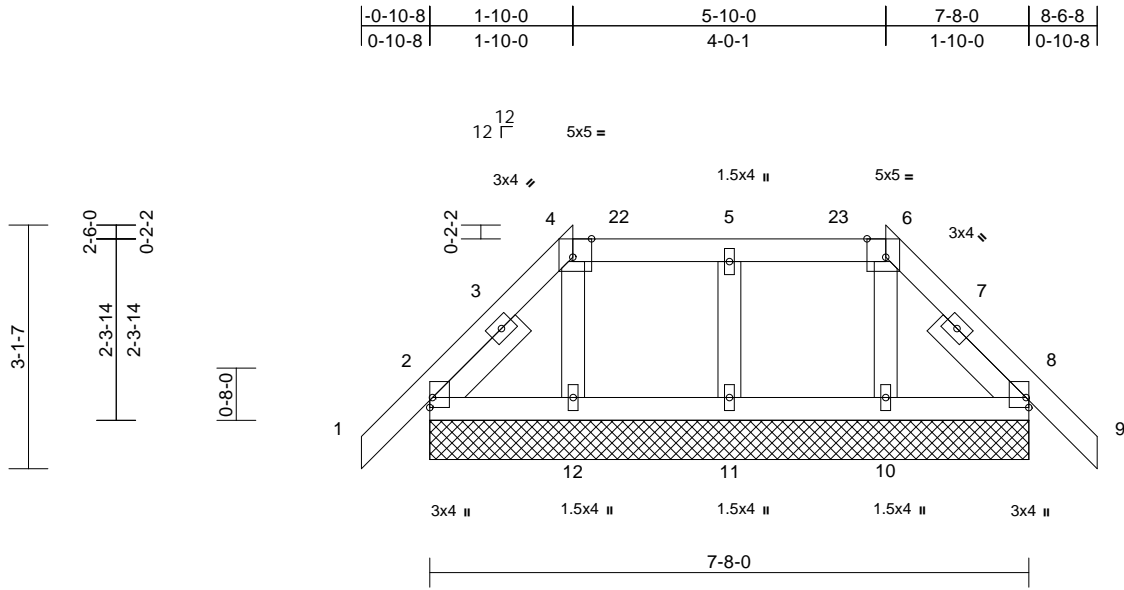
818 Soundside Road
Edenton, NC 27932

Job 22-1331-A	Truss CE	Truss Type Hip Supported Gable	Qty 1	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	I50546925
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Riverside Roof Truss, LLC, Danville, Va - 24541,

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Page: 1



Scale = 1:29.5

Plate Offsets (X, Y): [2:Edge,0-0-7], [4:0-2-14,Edge], [6:0-2-14,Edge], [8:Edge,0-0-7], [8:0-0-0,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	21	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 42 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 7-8-0 oc purlins, except 2-0-0 oc purlins: 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

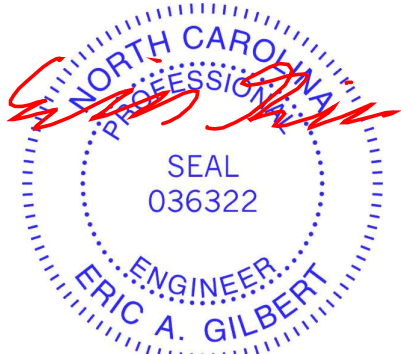
REACTIONS All bearings 7-8-0.
(lb) - Max Horiz 2=62 (LC 15), 13=62 (LC 15)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 8, 10, 11, 12, 13, 21
Max Grav All reactions 250 (lb) or less at joint (s) 2, 13 except 10=384 (LC 41), 11=280 (LC 40), 12=361 (LC 41)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-82/286, 6-7=-64/284
WEBS 6-10=-269/106, 5-11=-252/123, 4-12=-272/132

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 10, 11, 12, 2, 8.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



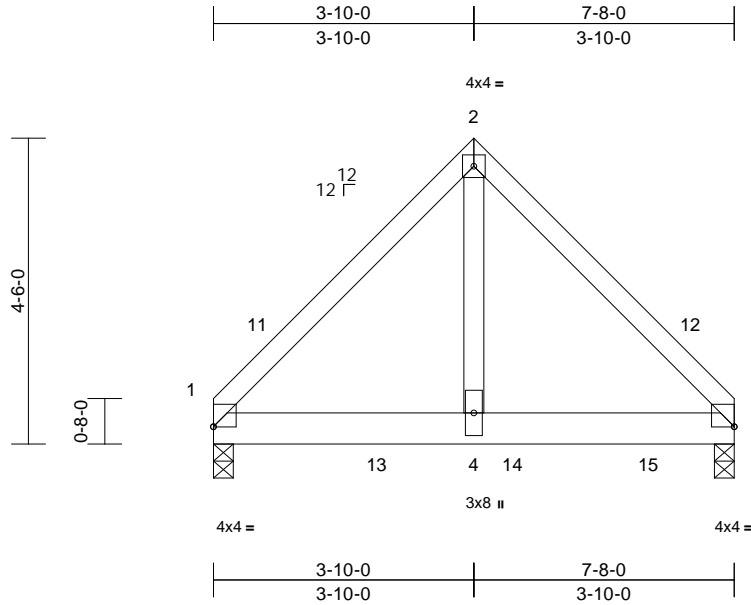
March 3, 2022

Job 22-1331-A	Truss CG	Truss Type Common Girder	Qty 1	Ply 2	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	150546926
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 02 13:32:01
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Page: 1



Scale = 1:33.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	4-10	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.03	4-10	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.00	1	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 81 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING

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

REACTIONS

(lb/size) 1=1855/0-3-8, 3=1564/0-3-8
Max Horiz 1=90 (LC 13)
Max Uplift 1=-397 (LC 17), 3=-321 (LC 16)
Max Grav 1=2381 (LC 30), 3=1999 (LC 29)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1688/416, 2-3=-1667/414
BOT CHORD 1-4=-213/1162, 3-4=-176/1162
WEBS 2-4=-425/2082

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 3-10-0, Exterior(2R) 3-10-0 to 6-10-0, Interior (1) 6-10-0 to 7-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 397 lb uplift at joint 1 and 321 lb uplift at joint 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 931 lb down and 165 lb up at 0-4-14, 925 lb down and 169 lb up at 2-4-14, and 925 lb down and 169 lb up at 4-4-14, and 1050 lb down and 176 lb up at 6-4-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

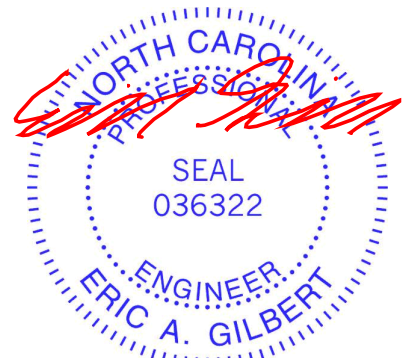
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-51, 2-3=-51, 5-8=-20

Concentrated Loads (lb)

Vert: 7=-701 (B), 13=-695 (B), 14=-695 (B), 15=-786 (B)



March 3, 2022

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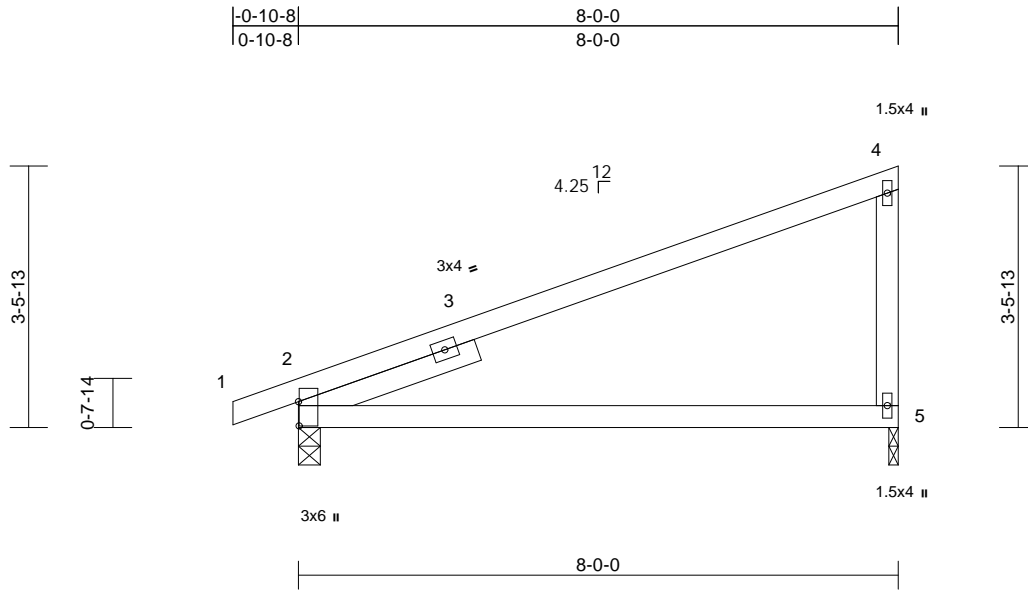
818 Soundside Road
Edenton, NC 27932

Job 22-1331-A	Truss M1	Truss Type Monopitch	Qty 3	Ply 1	JSJ-DEWBERRY B-WFS #44 ROOF Job Reference (optional)	150546927
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Mar 02 13:32:01
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Page: 1



Scale = 1:30.7

Plate Offsets (X, Y): [2:0-3-14,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	0.20	5-8	>468	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.38	5-8	>248	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.06	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 34 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -- 2-6-0

BRACING

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

REACTIONS

(lb/size) 2=325/0-3-8, 5=276/0-1-8
 Max Horiz 2=127 (LC 15)
 Max Uplift 2=-73 (LC 12), 5=-61 (LC 16)
 Max Grav 2=375 (LC 23), 5=364 (LC 23)

FORCES

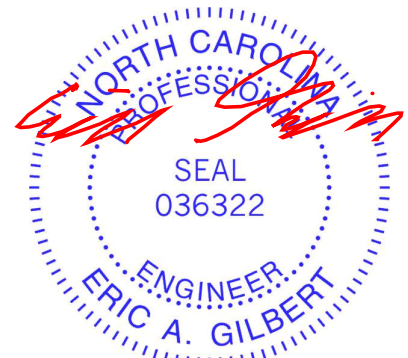
(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/18, 2-4=-506/92, 4-5=-255/200
 BOT CHORD 2-5=-487/352

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;
 Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 7-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 5 and 73 lb uplift at joint 2.
- 9) 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.

LOAD CASE(S) Standard



March 3, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

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

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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