

RE: 22-1333-A  
 JSJ-PINEWOOD A-LOT #45 WFS ROOF

Trenco  
 818 Soundside Rd  
 Edenton, NC 27932

**Site Information:**

Customer: Project Name: 22-1333-A  
 Lot/Block: Model:  
 Address: Subdivision:  
 City: State:

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.5  
 Wind Code: ASCE 7-10 Wind Speed: 130 mph  
 Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 26 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I47495932	A1	8/18/2021	21	I47495952	EE	8/18/2021
2	I47495933	A2	8/18/2021	22	I47495953	F1	8/18/2021
3	I47495934	A3	8/18/2021	23	I47495954	FE	8/18/2021
4	I47495935	A4	8/18/2021	24	I47495955	G1	8/18/2021
5	I47495936	A5	8/18/2021	25	I47495956	G2	8/18/2021
6	I47495937	A5A	8/18/2021	26	I47495957	P1	8/18/2021
7	I47495938	AE1	8/18/2021				
8	I47495939	AE2	8/18/2021				
9	I47495940	BE	8/18/2021				
10	I47495941	BG	8/18/2021				
11	I47495942	BV1	8/18/2021				
12	I47495943	BV2	8/18/2021				
13	I47495944	BV3	8/18/2021				
14	I47495945	BV4	8/18/2021				
15	I47495946	BV5	8/18/2021				
16	I47495947	BV6	8/18/2021				
17	I47495948	CE	8/18/2021				
18	I47495949	D1	8/18/2021				
19	I47495950	DE	8/18/2021				
20	I47495951	E1	8/18/2021				

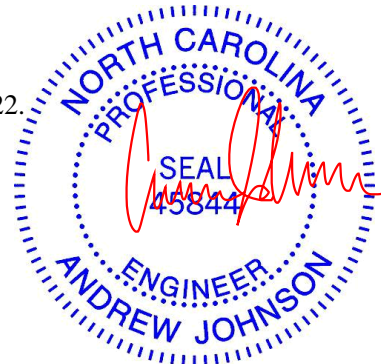
The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Riverside Roof Truss.

Truss Design Engineer's Name: Johnson, Andrew

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.



August 18, 2021

Job 22-1333-A	Truss A1	Truss Type Piggyback Base	Qty 4	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	I47495932
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:39  
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Page: 1

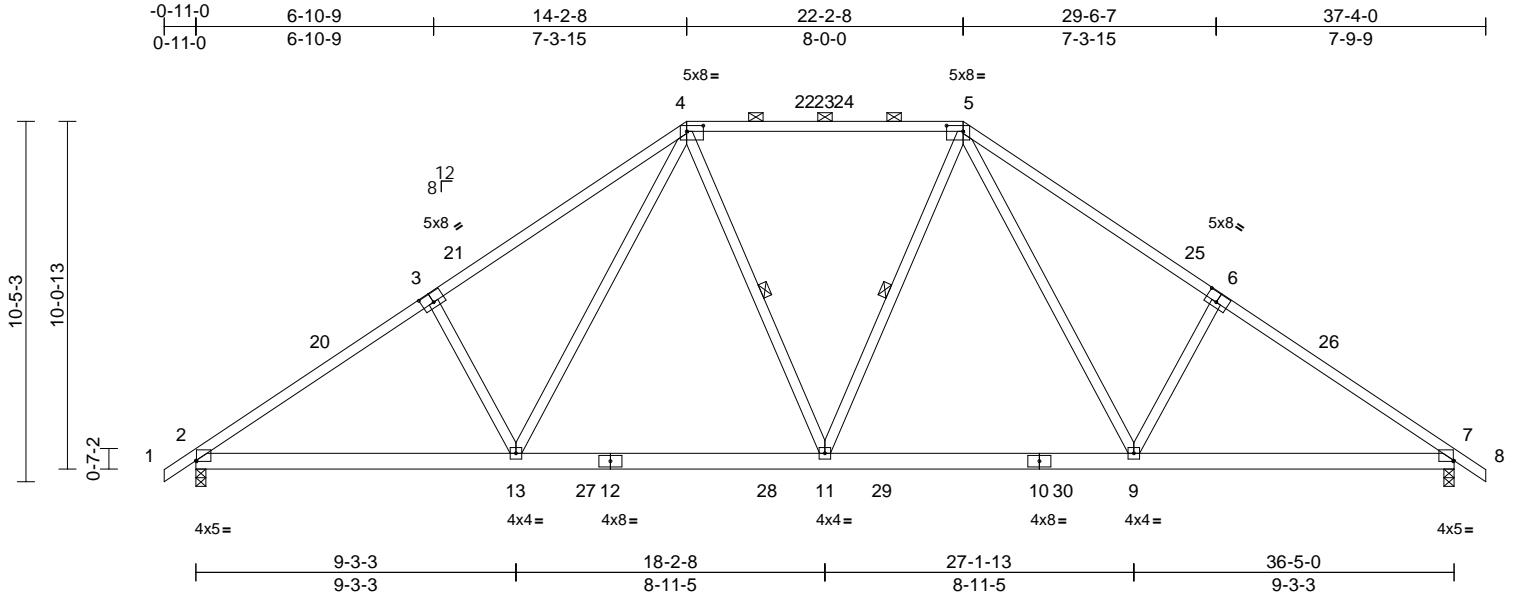


Plate Offsets (X, Y): [2:0-0-4,0-0-3], [3:0-4-0,0-3-4], [4:0-5-12,0-2-0], [5:0-5-12,0-2-0], [6:0-4-0,0-3-4], [7:0-0-4,0-0-3]

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)	-0.14	11-13	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.23	11-13	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 228 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP DSS \*Except\* 1-3,6-8:2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 4-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 4-11, 5-11

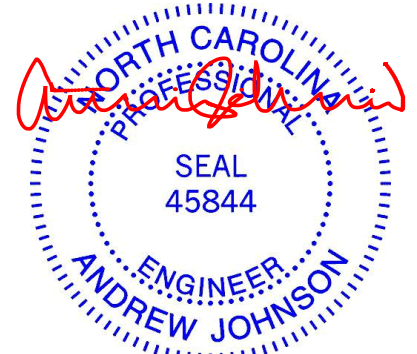
**REACTIONS** (lb/size) 2=1376/0-3-8, 7=1376/0-3-8  
Max Horiz 2=-250 (LC 14)  
Max Uplift 2=-189 (LC 16), 7=-189 (LC 17)  
Max Grav 2=1681 (LC 39), 7=1681 (LC 39)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/31, 2-4=-2533/489, 4-5=-1530/389, 5-7=-2533/489, 7-8=0/31  
BOT CHORD 2-13=-280/2091, 11-13=-77/1460, 9-11=-45/1449, 7-9=-224/2037  
WEBS 3-13=-566/281, 4-13=-161/817, 4-11=-60/305, 5-11=-60/305, 5-9=-161/818, 6-9=-566/281

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 189 lb uplift at joint 2 and 189 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 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 (2) 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



August 18, 2021

**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



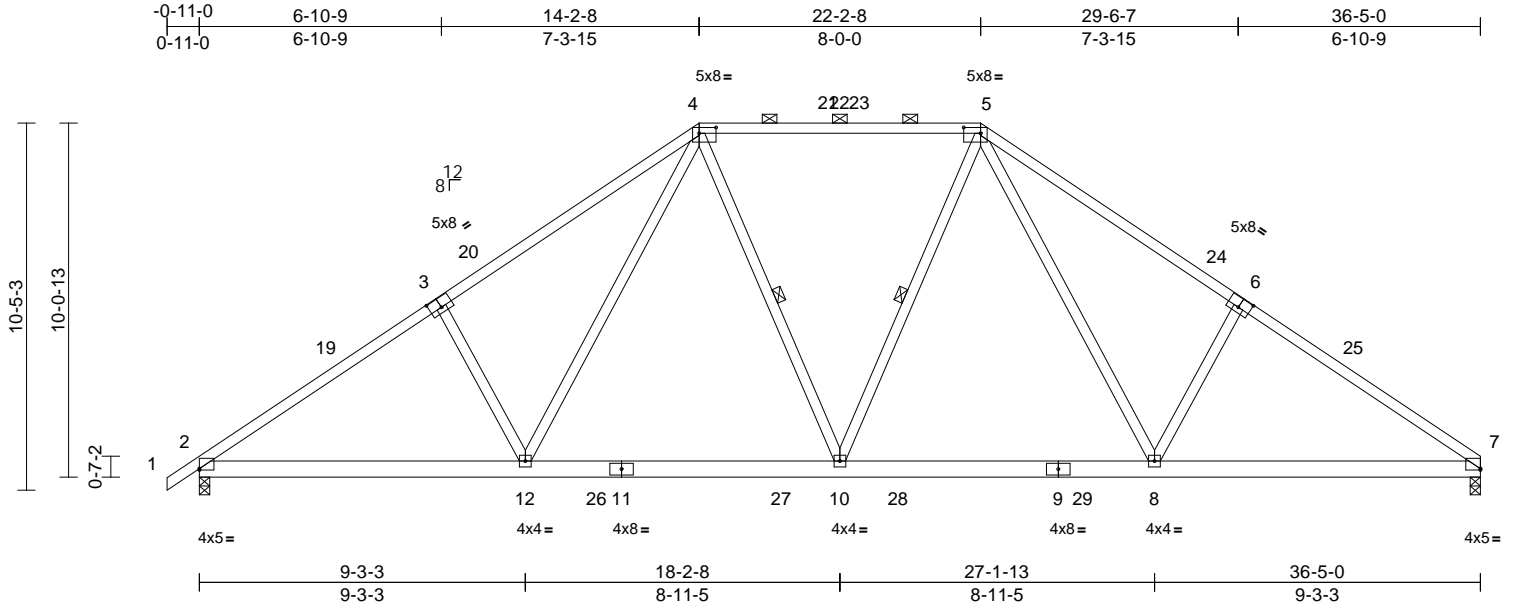
818 Soundside Road  
Edenton, NC 27932

Job 22-1333-A	Truss A2	Truss Type Piggyback Base	Qty 1	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495933
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Riverside Roof Truss, LLC, Danville, Va - 24541,

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Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.14	10-12	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.23	10-12	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.06	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 226 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP DSS \*Except\* 6-7,3-1:2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 4-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 4-10, 5-10

**REACTIONS** (lb/size) 2=1376/0-3-8, 7=1329/0-3-8  
Max Horiz 2=245 (LC 13)  
Max Uplift 2=-189 (LC 16), 7=-169 (LC 17)  
Max Grav 2=1681 (LC 39), 7=1634 (LC 39)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/31, 2-4=-2534/490, 4-5=-1531/390, 5-7=-2537/492  
BOT CHORD 2-12=-290/2084, 10-12=-87/1453, 8-10=-66/1450, 7-8=-245/2041  
WEBS 3-12=-566/281, 4-12=-161/818, 4-10=-60/306, 5-10=-60/303, 5-8=-163/822, 6-8=-567/281

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 169 lb uplift at joint 7 and 189 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 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 (2) 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



August 18, 2021

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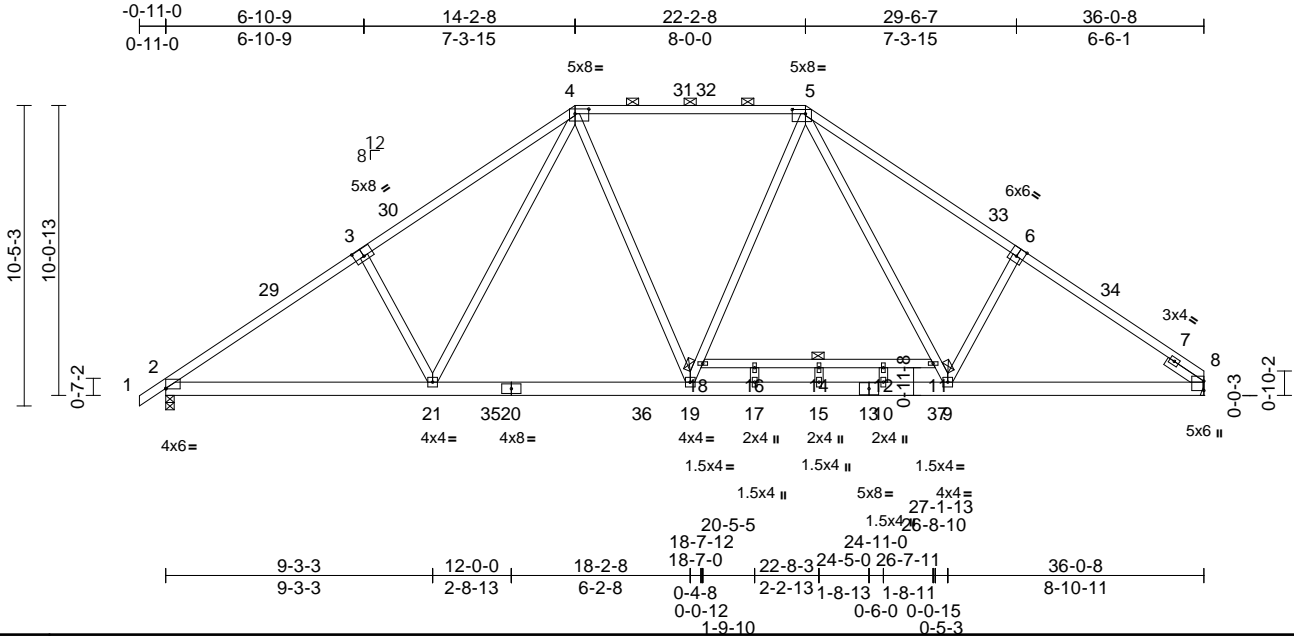
818 Soundside Road  
Edenton, NC 27932

Job 22-1333-A	Truss A3	Truss Type Piggyback Base	Qty 6	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495934
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Riverside Roof Truss, LLC, Danville, Va - 24541,

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Page: 1



Scale = 1:80

Plate Offsets (X, Y): [2:Edge,0-0-3], [3:0-4-0,0-3-4], [4:0-5-12,0-2-0], [5:0-5-8,0-1-12], [6:0-3-0,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	0.94	Vert(LL)	-0.20	12-14	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.36	12-14	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 241 lb	FT = 20%

LUMBER	(lb/size)
TOP CHORD	2x4 SP DSS *Except* 6-8,3-1.2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 18-11.2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Right 2x4 SP No.3 -- 1-6-0
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-2-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 11-18
REACTIONS	
	2=1424/0-3-8, 8=1420/ Mechanical
	Max Horiz 2=244 (LC 13)
	Max Uplift 2=-149 (LC 16), 8=-105 (LC 17)
	Max Grav 2=1726 (LC 39), 8=1732 (LC 45)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/31, 2-4=-2608/424, 4-5=-1709/312, 5-8=-2625/365
BOT CHORD	2-21=-240/2201, 19-21=-33/1585, 17-19=0/1656, 15-17=0/1656, 10-15=0/1656, 9-10=0/1656, 8-9=-146/2121, 16-18=-63/0, 14-16=-63/0, 12-14=-63/0, 11-12=-63/0
WEBS	3-21=-567/281, 4-21=-171/785, 4-19=-14/427, 18-19=-61/324, 5-18=-39/371, 5-11=-100/859, 9-11=-119/780, 6-9=-519/274, 16-17=-111/0, 10-12=-58/0, 14-15=-87/0

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

- Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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, 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 105 lb uplift at joint 8 and 149 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



August 18, 2021

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ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

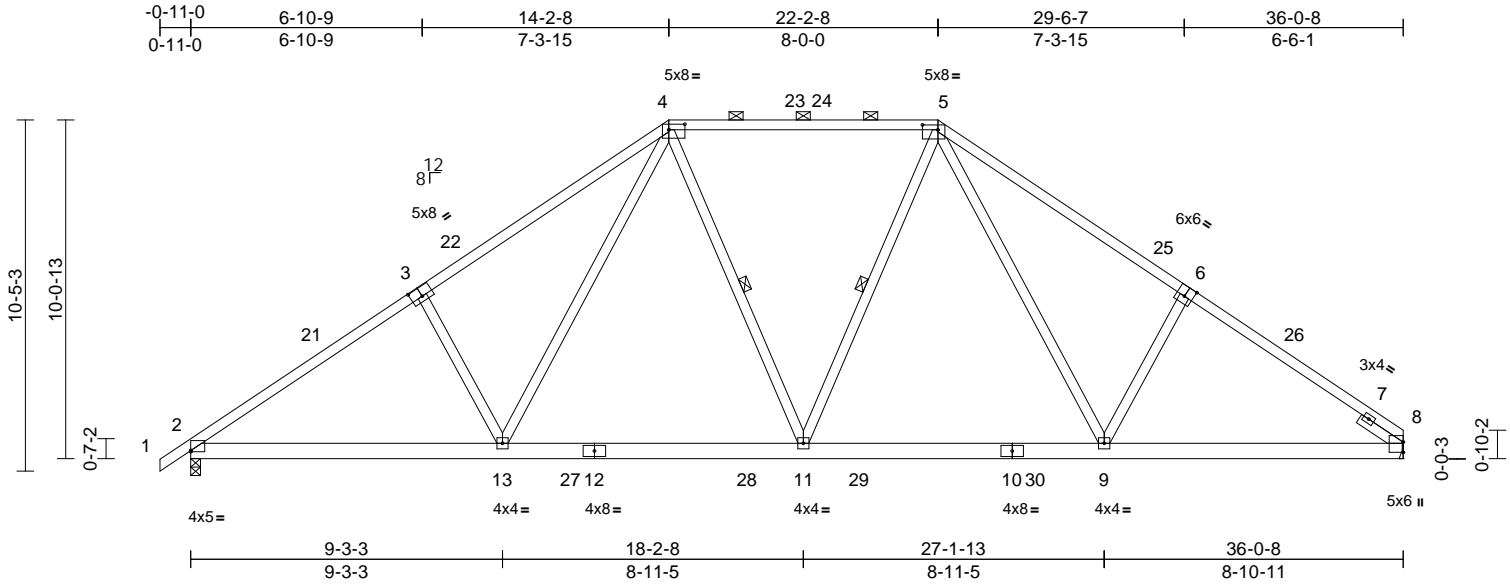
818 Soundside Road  
Edenton, NC 27932

Job 22-1333-A	Truss A4	Truss Type Piggyback Base	Qty 3	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495935
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Riverside Roof Truss, LLC, Danville, Va - 24541,

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Page: 1



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Plate Offsets (X, Y): [2:Edge,0-0-7], [3:0-4-0,0-3-4], [4:0-5-12,0-2-0], [5:0-5-8,0-1-12], [6:0-3-0,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	0.88	Vert(LL)	-0.16	9-11	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.25	9-11	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 227 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP DSS \*Except\* 6-8,3-1:2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Right 2x4 SP No.3 -- 1-6-0

**BRACING**  
TOP CHORD Structural wood sheathing directly applied, except  
2-0-0 oc purlins (2-4-4 max.): 4-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 4-11, 5-11

**REACTIONS** (lb/size) 2=1363/0-3-8, 8=1316/ Mechanical  
Max Horiz 2=244 (LC 13)  
Max Uplift 2=-186 (LC 16), 8=-167 (LC 17)  
Max Grav 2=1665 (LC 39), 8=1624 (LC 39)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/31, 2-4=-2504/486, 4-5=-1504/386, 5-8=-2395/474  
BOT CHORD 2-13=-292/2060, 11-13=-89/1430, 9-11=-69/1411, 8-9=-236/1929  
WEBS 3-13=-567/281, 4-13=-161/815, 4-11=-61/295, 5-11=-56/327, 5-9=-151/714, 6-9=-525/270

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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, 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 167 lb uplift at joint 8 and 186 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 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 (2) 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



August 18, 2021

**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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Job 22-1333-A	Truss A5	Truss Type Hip	Qty 1	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495936
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:44  
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Page: 1

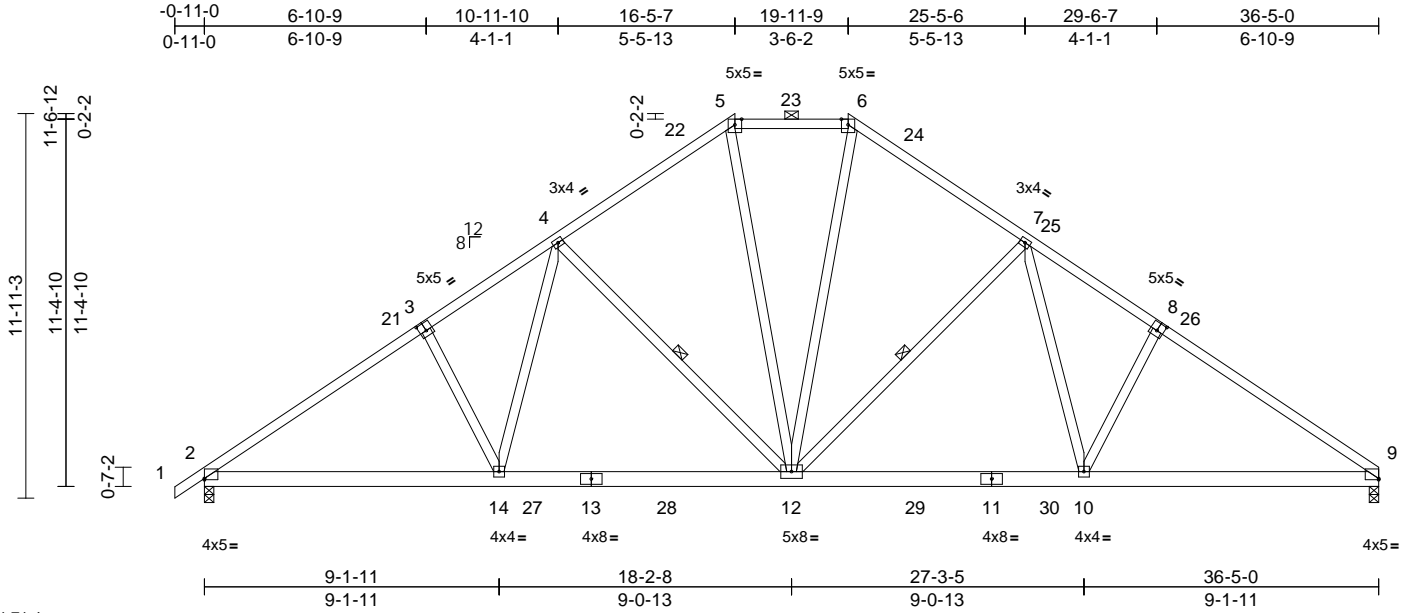


Plate Offsets (X, Y): [2:Edge,0-0-7], [3:0-2-8,0-3-0], [8:0-2-8,0-3-0], [9:Edge,0-0-7]

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	0.65	Vert(LL)	-0.15	12-14	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.24	12-14	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 250 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 3-0-14 oc purlins, except 2-0-0 oc purlins (4-7-12 max.): 5-6.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 4-12, 7-12

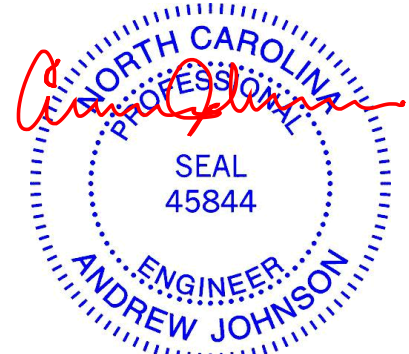
**REACTIONS** (lb/size) 2=1354/0-3-8, 9=1306/0-3-8  
Max Horiz 2=279 (LC 13)  
Max Uplift 2=-182 (LC 16), 9=-163 (LC 17)  
Max Grav 2=1730 (LC 39), 9=1682 (LC 39)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/31, 2-4=-2604/439, 4-5=-1781/391, 5-6=-1461/389, 6-7=-1781/391, 7-9=-2607/440  
BOT CHORD 2-14=-282/2150, 12-14=-177/1887, 10-12=-122/1855, 9-10=-216/2088  
WEBS 4-14=-81/543, 3-14=-302/194, 4-12=-759/235, 5-12=-95/671, 6-12=-95/670, 7-12=-761/236, 7-10=-83/547, 8-10=-304/195

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 9 and 182 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 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 (2) 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



August 18, 2021

**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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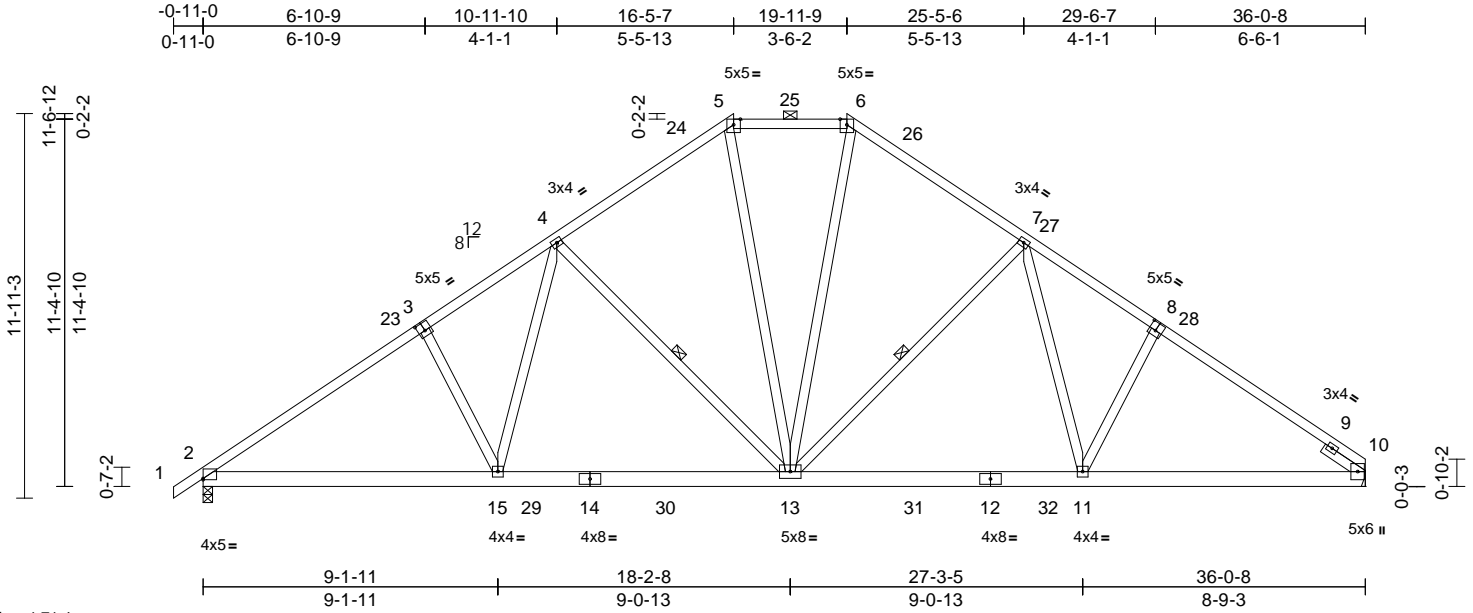
818 Soundside Road  
Edenton, NC 27932

Job 22-1333-A	Truss A5A	Truss Type Hip	Qty 1	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495937
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:44  
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Page: 1



Scale = 1:71.4

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

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)	-0.16	11-13	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.26	11-13	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.08	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 251 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Right 2x4 SP No.3 -- 1-6-0

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-8-4 max.): 5-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-13, 7-13

**REACTIONS**

(lb/size) 2=1340/0-3-8, 10=1293/  
 Mechanical  
 Max Horiz 2=278 (LC 13)  
 Max Uplift 2=-181 (LC 16), 10=-159 (LC 17)  
 Max Grav 2=1712 (LC 39), 10=1673 (LC 39)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/31, 2-4=-2573/434, 4-5=-1752/387, 5-6=-1434/385, 6-7=-1753/387, 7-10=-2459/422  
 BOT CHORD 2-15=-287/2125, 13-15=-181/1863, 11-13=-123/1789, 10-11=-206/1968  
 WEBS 4-15=-81/540, 3-15=-303/194, 4-13=-757/235, 5-13=-92/654, 6-13=-93/660, 7-13=-706/233, 7-11=-70/443, 8-11=-245/179

**NOTES**

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

- 2) Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 10 and 181 lb uplift at joint 2.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) 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



August 18, 2021

**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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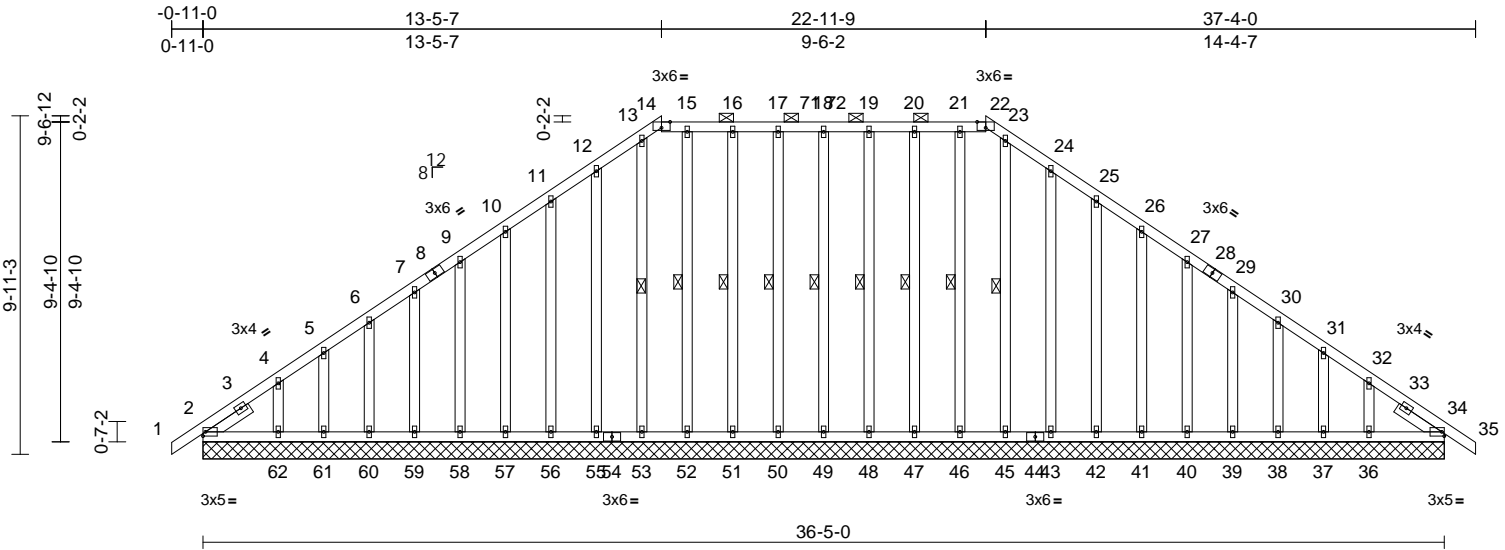
818 Soundside Road  
 Edenton, NC 27932

Job 22-1333-A	Truss AE1	Truss Type Hip Supported Gable	Qty 1	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	I47495938
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:45  
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Page: 1



Scale = 1:67.6

Plate Offsets (X, Y): [14:0-3-0,Edge], [22:0-3-0,Edge]

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	34	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 352 lb	FT = 20%

LUMBER		Max Uplift	2=-67 (LC 12), 34=-5 (LC 13), 36=-91 (LC 17), 37=-24 (LC 17), 38=-45 (LC 17), 39=-40 (LC 17), 40=-41 (LC 17), 41=-41 (LC 17), 42=-44 (LC 17), 43=-44 (LC 17), 46=-9 (LC 13), 47=-24 (LC 12), 48=-20 (LC 12), 49=-19 (LC 13), 50=-20 (LC 12), 51=-25 (LC 12), 52=-14 (LC 13), 53=-4 (LC 13), 55=-44 (LC 16), 56=-43 (LC 16), 57=-41 (LC 16), 58=-41 (LC 16), 59=-40 (LC 16), 60=-45 (LC 16), 61=-21 (LC 16), 62=-102 (LC 16), 63=-67 (LC 12), 67=-5 (LC 13)	TOP CHORD	1-2=0/30, 2-4=-210/187, 4-5=-160/149, 5-6=-144/142, 6-7=-133/130, 7-9=-123/127, 9-10=-115/146, 10-11=-125/168, 11-12=-157/191, 12-13=-190/218, 13-14=-174/201, 14-15=-170/199, 15-16=-171/201, 16-17=-171/201, 17-18=-171/201, 18-19=-171/201, 19-20=-171/201, 20-21=-171/201, 21-22=-170/199, 22-23=-174/201, 23-24=-190/218, 24-25=-157/180, 25-26=-125/141, 26-27=-93/104, 27-29=-62/66, 29-30=-60/39, 30-31=-67/47, 31-32=-85/55, 32-34=-142/112, 34-35=0/30
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 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 14-22.				
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.				
WEBS	1 Row at midpt 18-49, 17-50, 16-51, 15-52, 13-53, 19-48, 20-47, 21-46, 23-45				
REACTIONS	(lb/size) 2=130/36-5-0, 34=130/36-5-0, 36=133/36-5-0, 37=77/36-5-0, 38=95/36-5-0, 39=91/36-5-0, 40=92/36-5-0, 41=91/36-5-0, 42=92/36-5-0, 43=91/36-5-0, 45=88/36-5-0, 46=100/36-5-0, 47=105/36-5-0, 48=104/36-5-0, 49=104/36-5-0, 50=104/36-5-0, 51=105/36-5-0, 52=100/36-5-0, 53=88/36-5-0, 55=91/36-5-0, 56=92/36-5-0, 57=91/36-5-0, 58=92/36-5-0, 59=91/36-5-0, 60=95/36-5-0, 61=77/36-5-0, 62=133/36-5-0, 63=130/36-5-0, 67=130/36-5-0	Max Grav 2=188 (LC 31), 34=149 (LC 2), 36=173 (LC 31), 37=105 (LC 39), 38=152 (LC 39), 39=145 (LC 39), 40=146 (LC 39), 41=146 (LC 39), 42=146 (LC 39), 43=149 (LC 39), 45=123 (LC 39), 46=134 (LC 38), 47=149 (LC 38), 48=146 (LC 38), 49=146 (LC 38), 50=146 (LC 38), 51=149 (LC 38), 52=134 (LC 38), 53=139 (LC 53), 55=149 (LC 39), 56=146 (LC 39), 57=146 (LC 39), 58=146 (LC 39), 59=145 (LC 39), 60=152 (LC 39), 61=105 (LC 39), 62=186 (LC 30), 63=188 (LC 31), 67=149 (LC 2)			
	Max Horiz 2=227 (LC 15), 63=227 (LC 15)				
		FORCES	(lb) - Maximum Compression/Maximum Tension		



Continued on page 2

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818 Soundside Road  
Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	JSJ-PINEWOOD A-LOT #45 WFS ROOF	I47495938
22-1333-A	AE1	Hip Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:45

Page: 2

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**BOT CHORD** 2-62=-104/162, 61-62=-104/162,  
60-61=-104/162, 59-60=-104/162,  
58-59=-104/162, 57-58=-104/162,  
56-57=-104/162, 55-56=-104/162,  
53-55=-104/162, 52-53=-104/162,  
51-52=-104/162, 50-51=-104/162,  
49-50=-104/162, 48-49=-104/162,  
47-48=-104/162, 46-47=-104/162,  
45-46=-104/162, 43-45=-104/162,  
42-43=-104/162, 41-42=-104/162,  
40-41=-104/162, 39-40=-104/162,  
38-39=-104/162, 37-38=-104/162,  
36-37=-104/162, 34-36=-104/162

**LOAD CASE(S)** Standard

**WEBS** 18-49=-120/35, 17-50=-121/37,  
16-51=-123/45, 15-52=-108/29,  
13-53=-113/21, 12-55=-123/59,  
11-56=-121/59, 10-57=-120/56,  
9-58=-120/57, 7-59=-120/56, 6-60=-124/59,  
5-61=-87/46, 4-62=-135/98, 19-48=-121/37,  
20-47=-123/45, 21-46=-108/24, 23-45=-97/9,  
24-43=-123/59, 25-42=-121/59,  
26-41=-120/56, 27-40=-120/57,  
29-39=-120/56, 30-38=-124/58,  
31-37=-87/47, 32-36=-136/90

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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) T CLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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) All plates are 1.5x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 1-4-0 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 67 lb uplift at joint 2, 5 lb uplift at joint 34, 19 lb uplift at joint 49, 20 lb uplift at joint 50, 25 lb uplift at joint 51, 14 lb uplift at joint 52, 4 lb uplift at joint 53, 44 lb uplift at joint 55, 43 lb uplift at joint 56, 41 lb uplift at joint 57, 41 lb uplift at joint 58, 40 lb uplift at joint 59, 45 lb uplift at joint 60, 21 lb uplift at joint 61, 102 lb uplift at joint 62, 20 lb uplift at joint 48, 24 lb uplift at joint 47, 9 lb uplift at joint 46, 44 lb uplift at joint 43, 44 lb uplift at joint 42, 41 lb uplift at joint 41, 41 lb uplift at joint 40, 40 lb uplift at joint 39, 45 lb uplift at joint 38, 24 lb uplift at joint 37, 91 lb uplift at joint 36, 67 lb uplift at joint 2 and 5 lb uplift at joint 34.
- 14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**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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**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-PINEWOOD A-LOT #45 WFS ROOF
22-1333-A	AE2	Hip Supported Gable	1	1	I47495939 Job Reference (optional)

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

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:46

Page: 2

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BOT CHORD 2-61=-77/105, 60-61=-77/105,  
59-60=-77/105, 58-59=-77/105,  
57-58=-77/105, 56-57=-77/105,  
55-56=-77/105, 54-55=-77/105,  
52-54=-77/105, 51-52=-77/105,  
50-51=-77/105, 49-50=-77/105,  
48-49=-77/105, 47-48=-77/105,  
46-47=-77/105, 45-46=-77/105,  
44-45=-77/105, 42-44=-77/105,  
41-42=-77/105, 40-41=-77/105,  
39-40=-77/105, 38-39=-77/105,  
37-38=-77/105, 36-37=-77/105,  
35-36=-77/105, 34-35=-77/105

WEBS 18-48=-124/36, 17-49=-124/38,  
16-50=-127/48, 15-51=-112/34,  
13-52=-121/32, 12-54=-127/61,  
11-55=-125/61, 10-56=-124/58,  
9-57=-124/58, 7-58=-124/58, 6-59=-128/60,  
5-60=-90/48, 4-61=-136/100, 19-47=-124/38,  
20-46=-127/48, 21-45=-112/29,  
23-44=-102/19, 24-42=-127/62,  
25-41=-125/62, 26-40=-124/58,  
27-39=-124/58, 29-38=-124/58,  
30-37=-127/61, 31-36=-92/46,  
32-35=-129/105

15) 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

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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 (2) 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) TLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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) All plates are 1.5x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 1-4-0 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 88 lb uplift at joint 2, 14 lb uplift at joint 34, 19 lb uplift at joint 48, 20 lb uplift at joint 49, 27 lb uplift at joint 50, 18 lb uplift at joint 51, 11 lb uplift at joint 52, 45 lb uplift at joint 54, 45 lb uplift at joint 55, 42 lb uplift at joint 56, 43 lb uplift at joint 57, 42 lb uplift at joint 58, 47 lb uplift at joint 59, 22 lb uplift at joint 60, 103 lb uplift at joint 61, 20 lb uplift at joint 47, 26 lb uplift at joint 46, 13 lb uplift at joint 45, 46 lb uplift at joint 42, 46 lb uplift at joint 41, 42 lb uplift at joint 40, 43 lb uplift at joint 39, 41 lb uplift at joint 38, 48 lb uplift at joint 37, 17 lb uplift at joint 36, 124 lb uplift at joint 35 and 88 lb uplift at joint 2.
- 14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**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



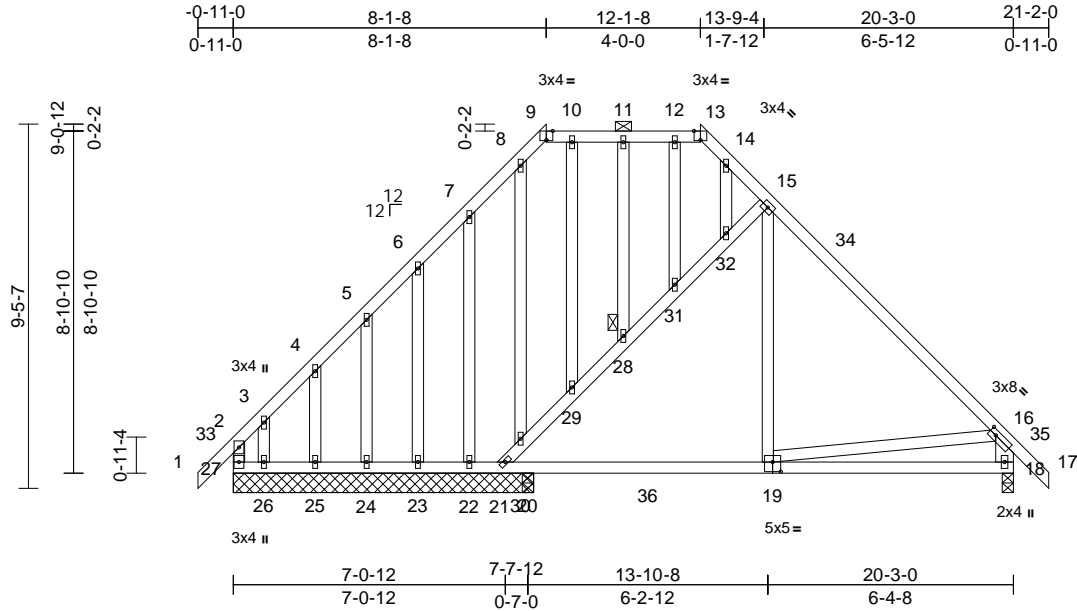
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	JSJ-PINEWOOD A-LOT #45 WFS ROOF	147495940
22-1333-A	BE	Hip Structural Gable	1	1	Job Reference (optional)	

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

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:47  
 ID:7BKkzGAMqcxporwznBDwd3zC2F8-RfC?PsB70Hq3NSgPqnL8u3uITXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:59.8

Plate Offsets (X, Y): [9:0-2-0,Edge], [13:0-2-0,Edge], [16:0-2-4,0-1-8], [19:0-2-8,0-3-0]

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	0.73	Vert(LL)	-0.04	19-20	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.06	19-20	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	18	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 176 lb	FT = 20%

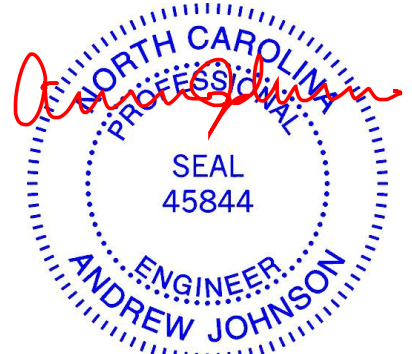
LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 27-2:2x4 SP No.2, 18-16:2x6 SP No.2
OTHERS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-6-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-13.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 28
REACTIONS (lb/size)	
	18=607/0-3-8, 20=179/0-3-8, 21=777/9-8, 22=141/7-9-8, 23=727/7-9-8, 24=94/7-9-8, 25=115/7-9-8, 26=168/7-9-8, 27=443/7-9-8
Max Horiz	27=250 (LC 15)
Max Uplift	18=39 (LC 17), 21=212 (LC 17), 22=73 (LC 16), 23=69 (LC 16), 24=76 (LC 16), 25=49 (LC 16), 26=418 (LC 50), 27=195 (LC 14)
Max Grav	18=842 (LC 39), 20=345 (LC 7), 21=280 (LC 39), 22=248 (LC 47), 23=138 (LC 47), 24=168 (LC 47), 25=178 (LC 39), 26=213 (LC 14), 27=710 (LC 50)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/51, 2-3=-563/274, 3-4=-408/167, 4-5=-373/110, 5-6=-369/92, 6-7=-350/86, 7-8=-363/100, 8-9=-319/102, 9-10=-245/91, 10-11=-250/92, 11-12=-250/92, 12-13=-245/90, 13-14=-305/106, 14-15=-400/143, 15-16=-772/73, 16-17=0/57, 2-27=-489/231, 16-18=-788/124

BOT CHORD	
	26-27=-200/341, 25-26=-200/341, 24-25=-200/341, 23-24=-200/341, 22-23=-200/341, 21-22=-200/341, 20-21=-10/389, 18-20=-192/401
WEBS	
	16-19=-224/384, 21-30=-575/201, 29-30=-512/196, 28-29=-520/199, 28-31=-522/192, 31-32=-492/173, 15-32=-562/227, 15-19=0/253, 11-28=-83/26, 10-29=-9/25, 8-30=-106/37, 7-22=-183/102, 6-23=-117/84, 5-24=-139/87, 4-25=-144/86, 3-26=-183/201, 12-31=-43/27, 14-32=-83/119

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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 7-10; Pr=20.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Partially Exp.; 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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 BCCL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 27, 39 lb uplift at joint 18, 212 lb uplift at joint 21, 73 lb uplift at joint 22, 69 lb uplift at joint 23, 76 lb uplift at joint 24, 49 lb uplift at joint 25 and 418 lb uplift at joint 26.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 18, 2021

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/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 22-1333-A	Truss BE	Truss Type Hip Structural Gable	Qty 1	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	I47495940
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:47  
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Page: 2

**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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ENGINEERING BY  
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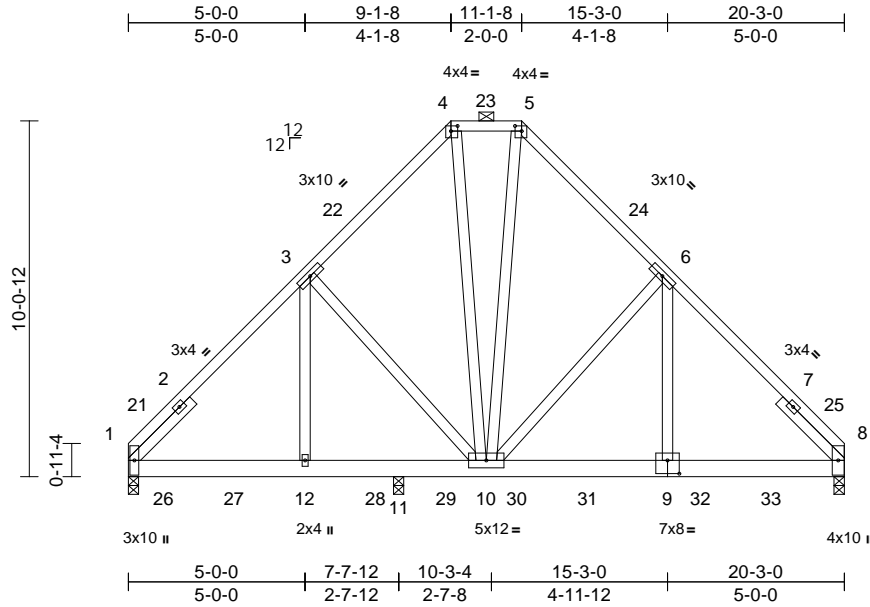
818 Soundside Road  
Edenton, NC 27932

Job 22-1333-A	Truss BG	Truss Type Hip Girder	Qty 1	Ply 3	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495941
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:48  
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Page: 1



Scale = 1:65.2

Plate Offsets (X, Y): [1:0-5-0,0-0-9], [4:0-2-4,0-1-12], [5:0-2-4,0-1-12], [8:0-5-13,0-0-1], [9:0-4-0,0-4-8]

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	0.93	Vert(LL)	-0.09	9-10	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.16	9-10	>968	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 484 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.3 \*Except\* 4-5:2x4 SP No.2  
BOT CHORD 2x6 SP 2400F 2.0E \*Except\* 9-8:2x6 SP No.2  
WEBS 2x4 SP No.3  
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 5-2-3 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size)  
1=6422/0-3-8, 8=6962/0-3-8, 11=4786/0-3-8  
Max Horiz 1=227 (LC 60)  
Max Uplift 1=-514 (LC 16), 8=-694 (LC 17), 11=-339 (LC 17)  
Max Grav 1=6738 (LC 38), 8=7310 (LC 38), 11=4922 (LC 38)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-3=-5604/557, 3-4=-4319/559, 4-5=-3198/479, 5-6=-4269/557, 6-8=-7959/861  
BOT CHORD 1-12=-393/3999, 11-12=-393/3999, 10-11=-393/3999, 8-10=-495/5509  
WEBS 3-12=-93/1835, 3-10=-1617/285, 4-10=-333/2772, 5-10=-329/2701, 6-10=-3797/585, 6-9=-517/5012

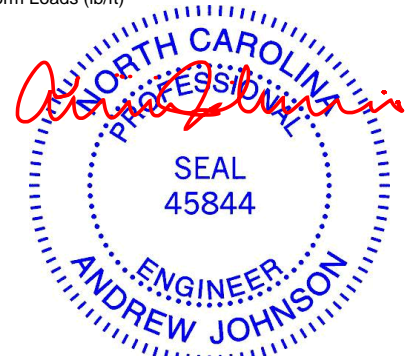
**NOTES**

- 3-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 - 3 rows staggered at 0-4-0 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 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 514 lb uplift at joint 1, 694 lb uplift at joint 8 and 339 lb uplift at joint 11.

- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1721 lb down and 117 lb up at 1-0-0, 1721 lb down and 117 lb up at 3-0-0, 1721 lb down and 117 lb up at 5-0-0, 1721 lb down and 117 lb up at 7-0-0, 1721 lb down and 117 lb up at 9-0-0, 1721 lb down and 117 lb up at 11-0-0, 1604 lb down and 179 lb up at 13-0-0, 1604 lb down and 179 lb up at 15-0-0, and 1604 lb down and 179 lb up at 16-2-4, and 1653 lb down and 171 lb up at 18-2-4 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)



August 18, 2021

Continued on page 2

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818 Soundside Road  
Edenton, NC 27932

Job 22-1333-A	Truss BG	Truss Type Hip Girder	Qty 1	Ply <b>3</b>	JSJ-PINEWOOD A-LOT #45 WFS ROOF I47495941 Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:48  
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Page: 2

Vert: 1-4=-51, 4-5=-61, 5-8=-51, 13-17=-20

Concentrated Loads (lb)

Vert: 12=-1709 (B), 9=-1604 (B), 26=-1709 (B),  
27=-1709 (B), 28=-1709 (B), 29=-1709 (B),  
30=-1709 (B), 31=-1604 (B), 32=-1604 (B),  
33=-1653 (B)

**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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ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

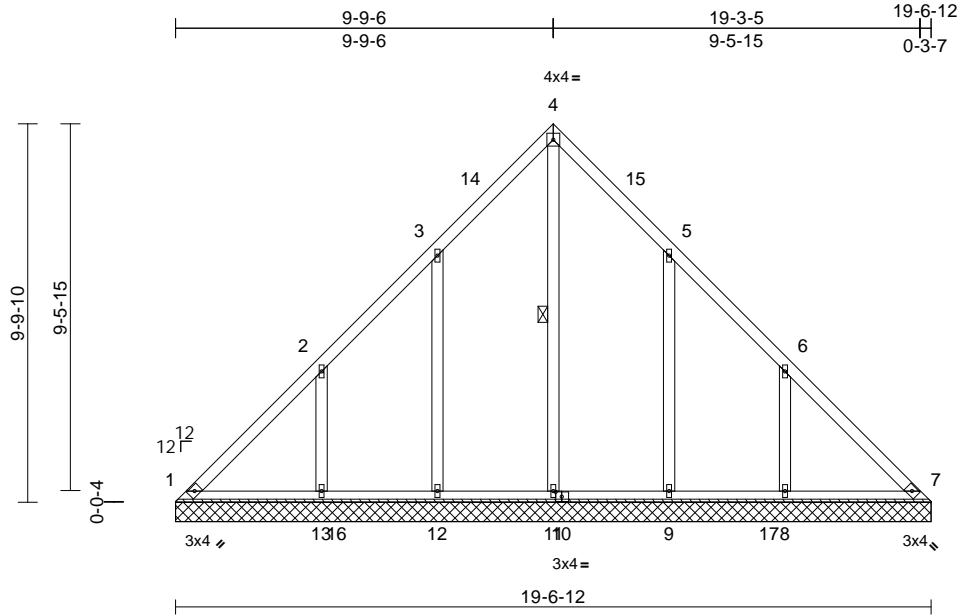
Job 22-1333-A	Truss BV1	Truss Type Valley	Qty 1	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	I47495942
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:49

Page: 1

ID:VW\_7I2aFUSDuMaPcEINB\_EzCGfi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?



Scale = 1:59.7

Plate Offsets (X, Y): [10:0-1-14,0-1-8]

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 111 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 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.

WEBS 1 Row at midpt 4-11

**REACTIONS** (lb/size)  
 1=124/19-6-12, 7=124/19-6-12,  
 8=263/19-6-12, 9=205/19-6-12,  
 11=154/19-6-12, 12=205/19-6-12,  
 13=263/19-6-12  
 Max Horiz 1=-234 (LC 12)  
 Max Uplift 1=-45 (LC 12), 7=-6 (LC 13),  
 8=-197 (LC 17), 9=-159 (LC 17),  
 12=-160 (LC 16), 13=-197 (LC 16)  
 Max Grav 1=198 (LC 31), 7=178 (LC 32),  
 8=367 (LC 30), 9=364 (LC 30),  
 11=309 (LC 32), 12=365 (LC 29),  
 13=367 (LC 29)

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

TOP CHORD 1-2=-265/187, 2-3=-173/115, 3-4=-184/183,  
 4-5=-184/180, 5-6=-131/59, 6-7=-228/146

BOT CHORD 1-13=-129/211, 12-13=-129/211,  
 11-12=-129/211, 9-11=-129/211,  
 8-9=-129/211, 7-8=-129/211

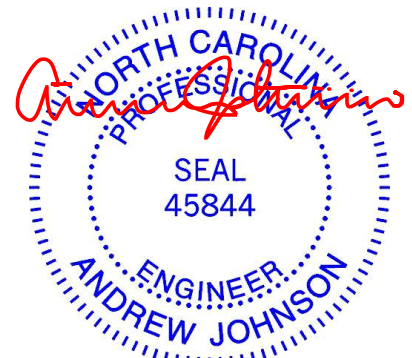
WEBS 4-11=-168/85, 3-12=-238/197,  
 2-13=-288/230, 5-9=-238/196, 6-8=-288/230

**NOTES**

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

- Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 3-0-0 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1, 6 lb uplift at joint 7, 160 lb uplift at joint 12, 197 lb uplift at joint 13, 159 lb uplift at joint 9 and 197 lb uplift at joint 8.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



August 18, 2021

**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



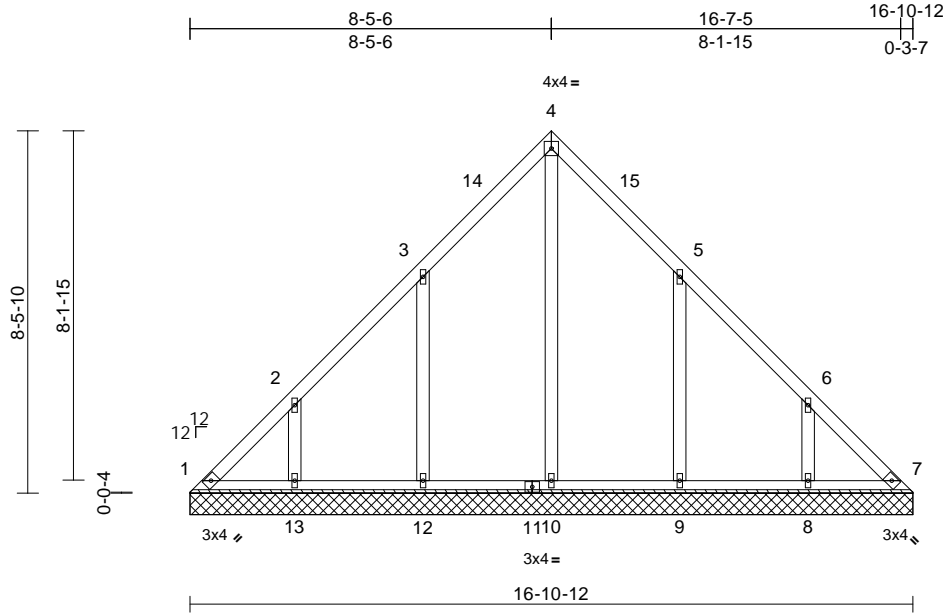
Job 22-1333-A	Truss BV2	Truss Type Valley	Qty 1	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495943
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:49

Page: 1

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Scale = 1:53.9

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 91 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 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=78/16-10-12, 7=78/16-10-12, 8=199/16-10-12, 9=224/16-10-12, 10=147/16-10-12, 12=224/16-10-12, 13=199/16-10-12
Max Horiz	1=201 (LC 13)
Max Uplift	1=-62 (LC 14), 7=-28 (LC 15), 8=-149 (LC 17), 9=-174 (LC 17), 12=-174 (LC 16), 13=-149 (LC 16)
Max Grav	1=162 (LC 31), 7=145 (LC 32), 8=248 (LC 30), 9=336 (LC 30), 10=308 (LC 32), 12=337 (LC 29), 13=248 (LC 29)
FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-247/163, 2-3=-164/114, 3-4=-162/158, 4-5=-162/154, 5-6=-128/66, 6-7=-214/135
BOT CHORD	1-13=-106/178, 12-13=-106/178, 10-12=-106/178, 9-10=-106/178, 8-9=-106/178, 7-8=-106/178
WEBS	4-10=-146/59, 3-12=-258/212, 2-13=-222/178, 5-9=-258/211, 6-8=-222/178

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

- Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 3-0-0 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 1, 28 lb uplift at joint 7, 174 lb uplift at joint 12, 149 lb uplift at joint 13, 174 lb uplift at joint 9 and 149 lb uplift at joint 8.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 18, 2021

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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



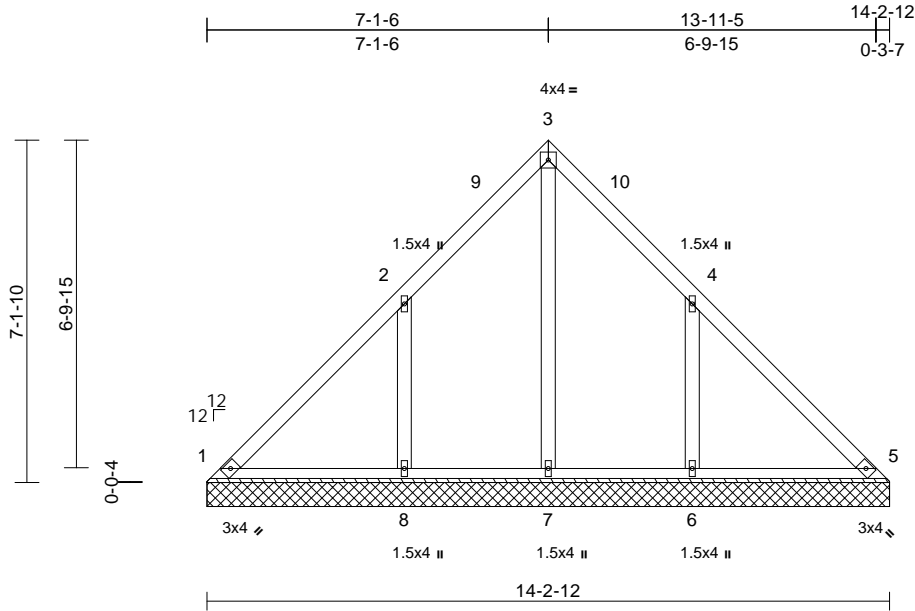
818 Soundside Road  
Edenton, NC 27932

Job 22-1333-A	Truss BV3	Truss Type Valley	Qty 1	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495944
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Riverside Roof Truss, LLC, Danville, Va - 24541,

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Page: 1



Scale = 1:48

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
										Weight: 70 lb	FT = 20%	

**LUMBER**

TOP CHORD 2x4 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=128/14-2-12, 5=128/14-2-12, 6=294/14-2-12, 7=117/14-2-12, 8=294/14-2-12  
Max Horiz 1=-168 (LC 12)  
Max Uplift 1=-18 (LC 12), 6=-224 (LC 17), 8=-224 (LC 16)  
Max Grav 1=170 (LC 30), 5=149 (LC 29), 6=419 (LC 30), 7=273 (LC 32), 8=420 (LC 29)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

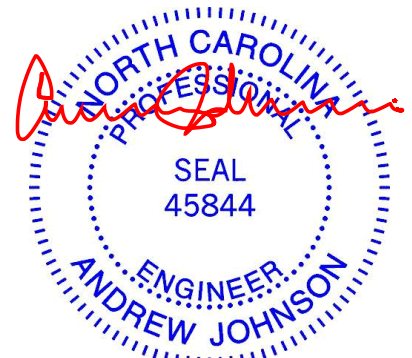
TOP CHORD 1-2=-161/133, 2-3=-143/131, 3-4=-143/130, 4-5=-140/102  
BOT CHORD 1-8=-91/149, 7-8=-91/149, 6-7=-91/149, 5-6=-91/149  
WEBS 3-7=-123/47, 2-8=-325/258, 4-6=-325/258

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 3-0-0 oc.
- 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, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1, 224 lb uplift at joint 8 and 224 lb uplift at joint 6.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



August 18, 2021

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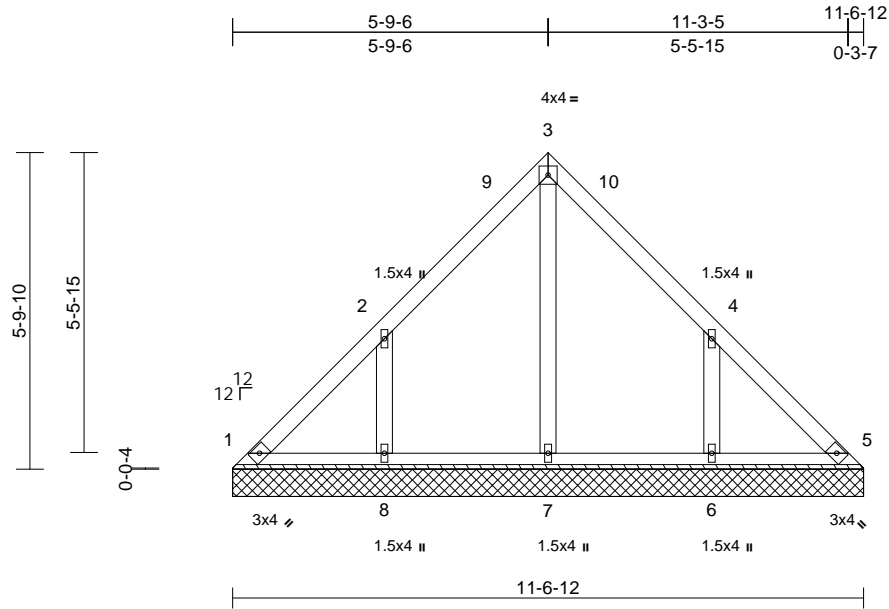
818 Soundside Road  
Edenton, NC 27932

Job 22-1333-A	Truss BV4	Truss Type Valley	Qty 1	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495945
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:50  
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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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0											
											Weight: 55 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 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=89/11-6-12, 5=89/11-6-12,  
6=224/11-6-12, 7=146/11-6-12,  
8=224/11-6-12  
Max Horiz 1=-135 (LC 12)  
Max Uplift 1=-26 (LC 12), 5=-3 (LC 13),  
6=-175 (LC 17), 8=-176 (LC 16)  
Max Grav 1=131 (LC 30), 5=114 (LC 29),  
6=292 (LC 30), 7=170 (LC 32),  
8=292 (LC 29)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-135/106, 2-3=-124/107, 3-4=-119/103,  
4-5=-118/74  
BOT CHORD 1-8=-60/111, 7-8=-60/111, 6-7=-60/111,  
5-6=-60/111  
WEBS 3-7=-110/0, 2-8=-259/206, 4-6=-259/206

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 3-0-0 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 26 lb uplift at joint 1, 3 lb uplift at joint 5, 176 lb uplift at joint 8 and 175 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



August 18, 2021

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**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

ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

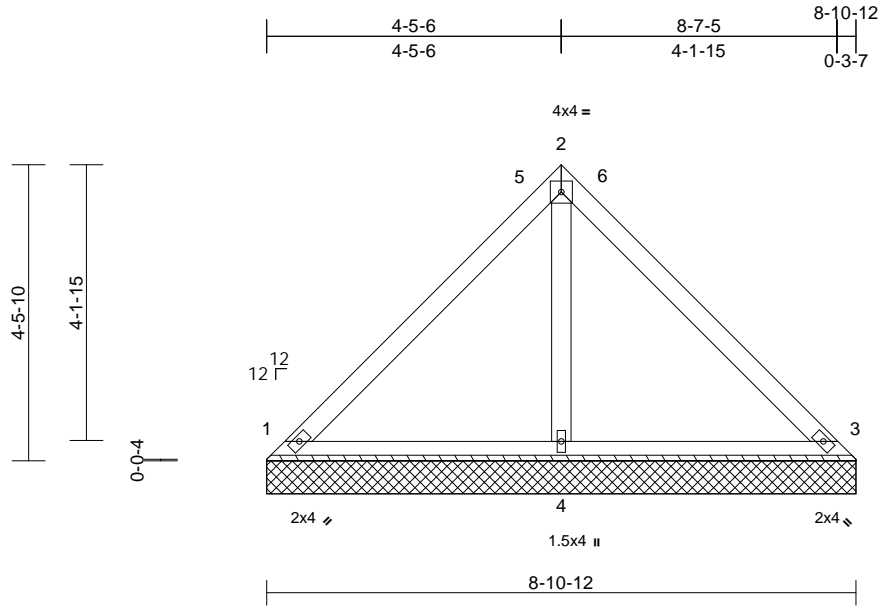
818 Soundside Road  
Edenton, NC 27932

Job 22-1333-A	Truss BV5	Truss Type Valley	Qty 1	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495946
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Riverside Roof Truss, LLC, Danville, Va - 24541,

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Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 36 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 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=173/8-10-12, 3=173/8-10-12, 4=237/8-10-12  
Max Horiz 1=-102 (LC 12)  
Max Uplift 1=-49 (LC 17), 3=-49 (LC 17)  
Max Grav 1=199 (LC 2), 3=199 (LC 2), 4=261 (LC 2)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-148/81, 2-3=-133/65  
BOT CHORD 1-4=-29/73, 3-4=-29/73  
WEBS 2-4=-158/46

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 3-0-0 oc.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1 and 49 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



August 18, 2021

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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

ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

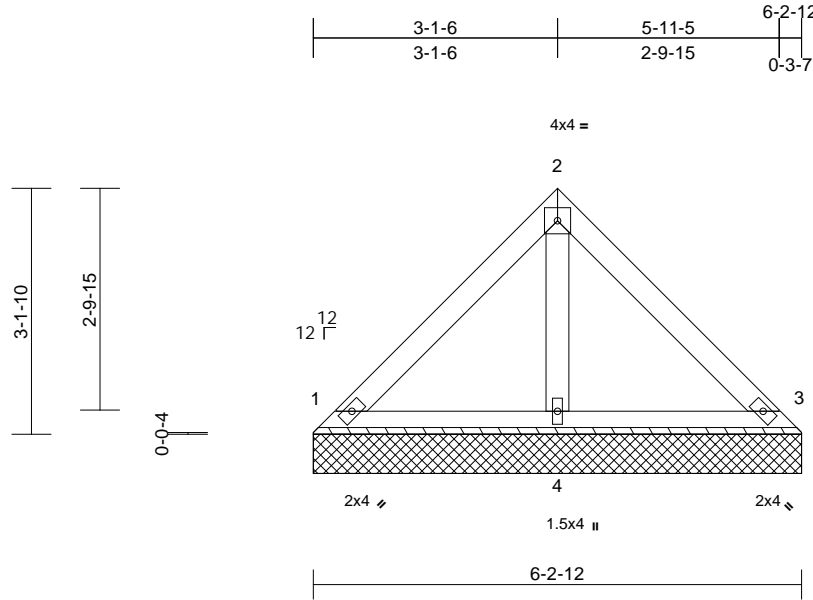
818 Soundside Road  
Edenton, NC 27932

Job 22-1333-A	Truss BV6	Truss Type Valley	Qty 1	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495947
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:51  
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Page: 1



Scale = 1:29.4

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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0											
										Weight: 25 lb	FT = 20%	

**LUMBER**

TOP CHORD 2x4 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=117/6-2-12, 3=117/6-2-12, 4=160/6-2-12  
Max Horiz 1=-69 (LC 12)  
Max Uplift 1=-33 (LC 17), 3=-33 (LC 17)  
Max Grav 1=134 (LC 2), 3=134 (LC 2), 4=176 (LC 2)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

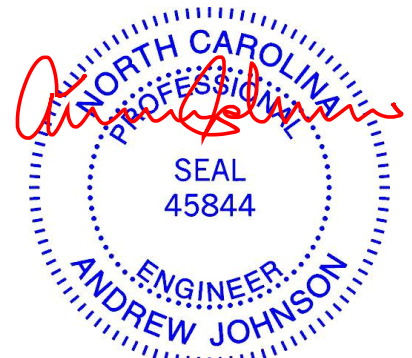
TOP CHORD 1-2=-100/54, 2-3=-90/44  
BOT CHORD 1-4=-20/49, 3-4=-20/49  
WEBS 2-4=-107/34

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1 and 33 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



August 18, 2021

**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

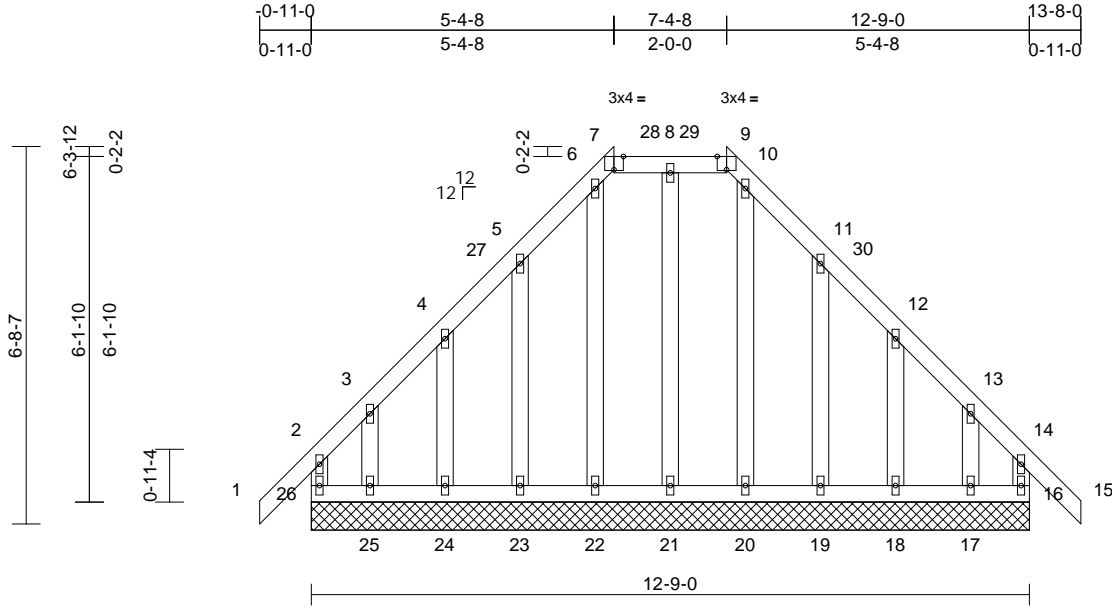
Job 22-1333-A	Truss CE	Truss Type Hip Supported Gable	Qty 1	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495948
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:51

Page: 1

ID:uG9?I8WgF6rP0wUzIEAKUzCgBy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi7J4zJC?f



Scale = 1:40.9

Plate Offsets (X, Y): [7:0-2-0,Edge], [9:0-2-0,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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 100 lb	FT = 20%

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

**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.): 7-9.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (lb/size)  
16=107/12-9-0, 17=49/12-9-0, 18=101/12-9-0, 19=93/12-9-0, 20=100/12-9-0, 21=109/12-9-0, 22=100/12-9-0, 23=93/12-9-0, 24=101/12-9-0, 25=49/12-9-0, 26=107/12-9-0  
Max Horiz 26=180 (LC 14)  
Max Uplift 16=92 (LC 13), 17=123 (LC 17), 18=65 (LC 17), 19=77 (LC 17), 23=78 (LC 16), 24=64 (LC 16), 25=132 (LC 16), 26=124 (LC 12)  
Max Grav 16=213 (LC 47), 17=148 (LC 49), 18=174 (LC 39), 19=171 (LC 49), 20=147 (LC 51), 21=158 (LC 38), 22=152 (LC 53), 23=171 (LC 47), 24=174 (LC 39), 25=163 (LC 47), 26=240 (LC 49)

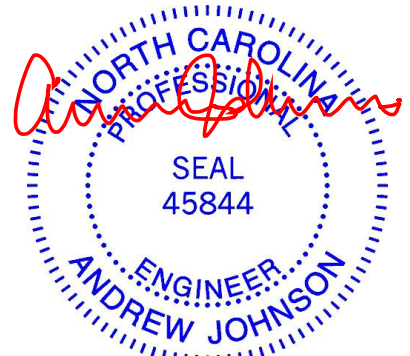
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 2-26=-198/95, 1-2=0/77, 2-3=-124/126, 3-4=-81/113, 4-5=-99/128, 5-6=-160/199, 6-7=-135/168, 7-8=-132/168, 8-9=-132/168, 9-10=-135/168, 10-11=-160/199, 11-12=-99/126, 12-13=-55/97, 13-14=-95/96, 14-15=0/77, 14-16=-181/70

**BOT CHORD** 25-26=-86/91, 24-25=-86/91, 23-24=-86/91, 22-23=-86/91, 21-22=-86/91, 20-21=-86/91, 19-20=-86/91, 18-19=-86/91, 17-18=-86/91, 16-17=-86/91  
**WEBS** 8-21=-132/20, 6-22=-125/16, 5-23=-143/91, 4-24=-145/92, 3-25=-114/97, 10-20=-121/15, 11-19=-143/91, 12-18=-145/92, 13-17=-119/93

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

- Gable studs spaced at 1-4-0 oc.
- This truss 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 124 lb uplift at joint 26, 92 lb uplift at joint 16, 78 lb uplift at joint 23, 64 lb uplift at joint 24, 132 lb uplift at joint 25, 77 lb uplift at joint 19, 65 lb uplift at joint 18 and 123 lb uplift at joint 17.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



August 18, 2021

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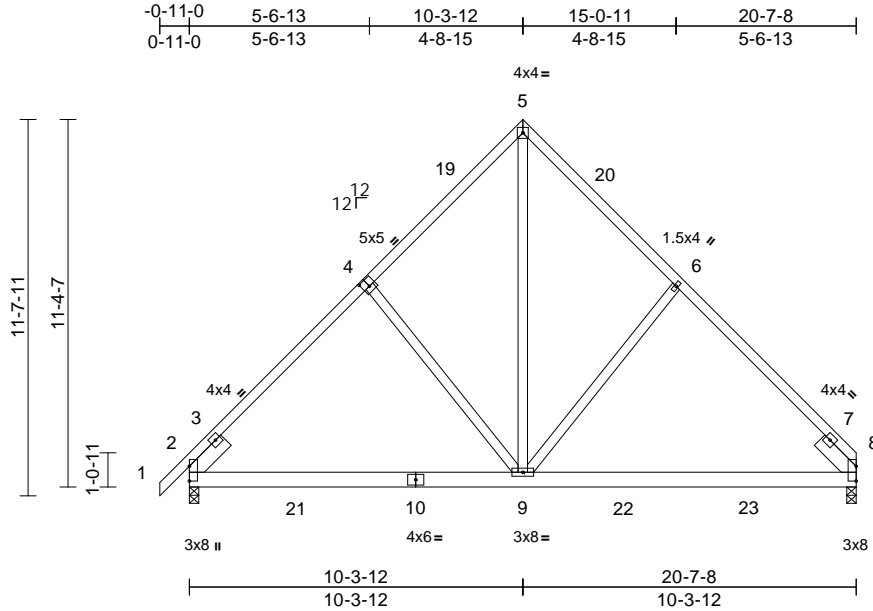
818 Soundside Road  
Edenton, NC 27932

Job 22-1333-A	Truss D1	Truss Type Common	Qty 3	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495949
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:52  
ID:SncDmpk\_vh1WYT3Jw6X6UKzCHK\_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:71.3

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

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	0.30	Vert(LL)	-0.07	9-13	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.12	9-13	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 139 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 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=778/0-3-8, 8=729/0-3-8  
 Max Horiz 2=270 (LC 15)  
 Max Uplift 2=-79 (LC 16), 8=-70 (LC 16)  
 Max Grav 2=893 (LC 30), 8=853 (LC 30)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/39, 2-5=-894/272, 5-6=-741/272, 6-8=-894/204  
 BOT CHORD 2-9=-206/700, 8-9=-76/602  
 WEBS 5-9=-253/726, 6-9=-308/255, 4-9=-308/254

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 8 and 79 lb uplift at joint 2.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



August 18, 2021

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



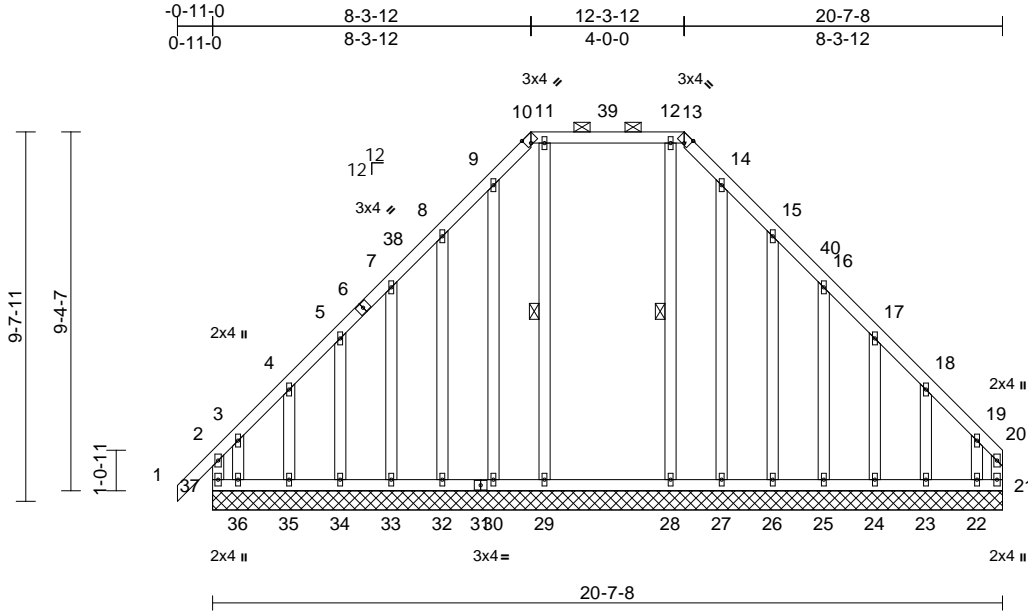
818 Soundside Road  
 Edenton, NC 27932

Job 22-1333-A	Truss DE	Truss Type Hip Supported Gable	Qty 1	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495950
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:52  
ID:nnwHxZuXusjGm1QlajjVJzCHmt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:60.1

Plate Offsets (X, Y): [10:0-1-8,Edge], [13:0-1-8,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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	21	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 183 lb	FT = 20%

LUMBER	TOP CHORD	2x4 SP No.2
	BOT CHORD	2x4 SP No.2
	WEBS	2x4 SP No.3
	OTHERS	2x4 SP No.3
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.): 10-13.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
WEBS	1 Row at midpt 11-29, 12-28	
REACTIONS	(lb/size)	21=11/20-7-8, 22=73/20-7-8, 23=98/20-7-8, 24=94/20-7-8, 25=94/20-7-8, 26=100/20-7-8, 27=52/20-7-8, 28=218/20-7-8, 29=218/20-7-8, 30=52/20-7-8, 32=100/20-7-8, 33=94/20-7-8, 34=94/20-7-8, 35=98/20-7-8, 36=16/20-7-8, 37=121/20-7-8, 37=252 (LC 13)
	Max Horiz	37=252 (LC 13)
	Max Uplift	21=-261 (LC 15), 22=-281 (LC 17), 23=-64 (LC 17), 24=-73 (LC 17), 25=-70 (LC 17), 26=-86 (LC 17), 27=-36 (LC 52), 29=-10 (LC 13), 30=-40 (LC 50), 32=-84 (LC 16), 33=-70 (LC 16), 34=-73 (LC 16), 35=-61 (LC 16), 36=-309 (LC 16), 37=-287 (LC 14)
	Max Grav	21=339 (LC 17), 22=263 (LC 49), 23=170 (LC 39), 24=165 (LC 49), 25=163 (LC 39), 26=180 (LC 49), 27=131 (LC 39), 28=369 (LC 50), 29=377 (LC 52), 30=131 (LC 39), 32=178 (LC 47), 33=163 (LC 39), 34=165 (LC 47), 35=170 (LC 39), 36=286 (LC 14), 37=396 (LC 13)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-37=-238/174, 1-2=0/45, 2-3=-269/224, 3-4=-164/154, 4-5=-139/133, 5-7=-124/139, 7-8=-139/180, 8-9=-208/251, 9-10=-213/258, 10-11=-184/227, 11-12=-184/227, 12-13=-184/227, 13-14=-213/258, 14-15=-208/251, 15-16=-139/169, 16-17=-92/119, 17-18=-107/90, 18-19=-123/112, 19-20=-238/179, 20-21=-209/154
BOT CHORD	36-37=-111/123, 35-36=-111/123, 34-35=-111/123, 33-34=-111/123, 32-33=-111/123, 30-32=-111/123, 29-30=-111/123, 28-29=-111/123, 27-28=-111/123, 26-27=-111/123, 25-26=-111/123, 24-25=-111/123, 23-24=-111/123, 22-23=-111/123, 21-22=-111/123
WEBS	11-29=-254/44, 12-28=-254/37, 9-30=-130/26, 8-32=-141/103, 7-33=-137/87, 5-34=-136/86, 4-35=-142/91, 3-36=-136/155, 14-27=-123/22, 15-26=-142/104, 16-25=-137/87, 17-24=-136/86, 18-23=-142/91, 19-22=-159/156

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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-PINEWOOD A-LOT #45 WFS ROOF	I47495950
22-1333-A	DE	Hip Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:52  
 ID:nnwHxZUxUjG1QlajjVJzCHmt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?f

Page: 2

- 13) \* 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.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 287 lb uplift at joint 37, 261 lb uplift at joint 21, 10 lb uplift at joint 29, 40 lb uplift at joint 30, 84 lb uplift at joint 32, 70 lb uplift at joint 33, 73 lb uplift at joint 34, 61 lb uplift at joint 35, 309 lb uplift at joint 36, 36 lb uplift at joint 27, 86 lb uplift at joint 26, 70 lb uplift at joint 25, 73 lb uplift at joint 24, 64 lb uplift at joint 23 and 281 lb uplift at joint 22.
- 15) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

**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



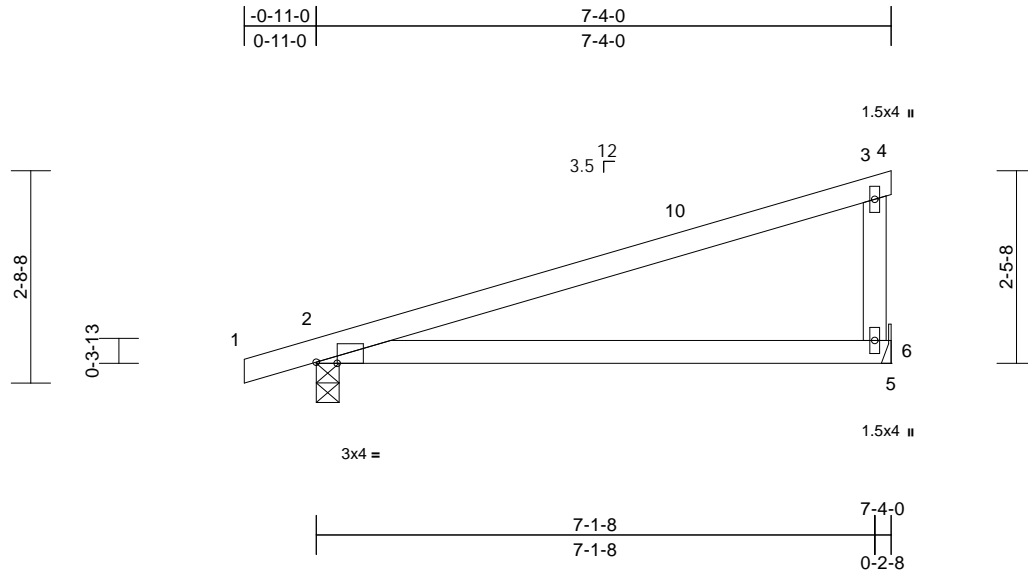
818 Soundside Road  
 Edenton, NC 27932

Job 22-1333-A	Truss E1	Truss Type Monopitch	Qty 7	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495951
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:53  
ID:oNzYfuWlu3oTrAmDZZ7k?dzCHdp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.4

Plate Offsets (X, Y): [2:0-3-3,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	0.78	Vert(LL)	0.13	6-9	>678	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.27	6-9	>317	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0											
												Weight: 27 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 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 2=302/0-3-8, 6=264/ Mechanical  
Max Horiz 2=93 (LC 15)  
Max Uplift 2=-85 (LC 12), 6=-59 (LC 16)  
Max Grav 2=343 (LC 2), 6=290 (LC 2)

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

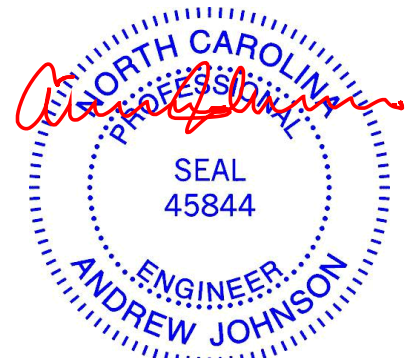
TOP CHORD 1-2=0/15, 2-3=-173/64, 3-4=-4/0,  
3-6=-191/145  
BOT CHORD 2-6=-91/158, 5-6=0/0

#### NOTES

- 1) Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 6 and 85 lb uplift at joint 2.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



August 18, 2021

**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

**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**

ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

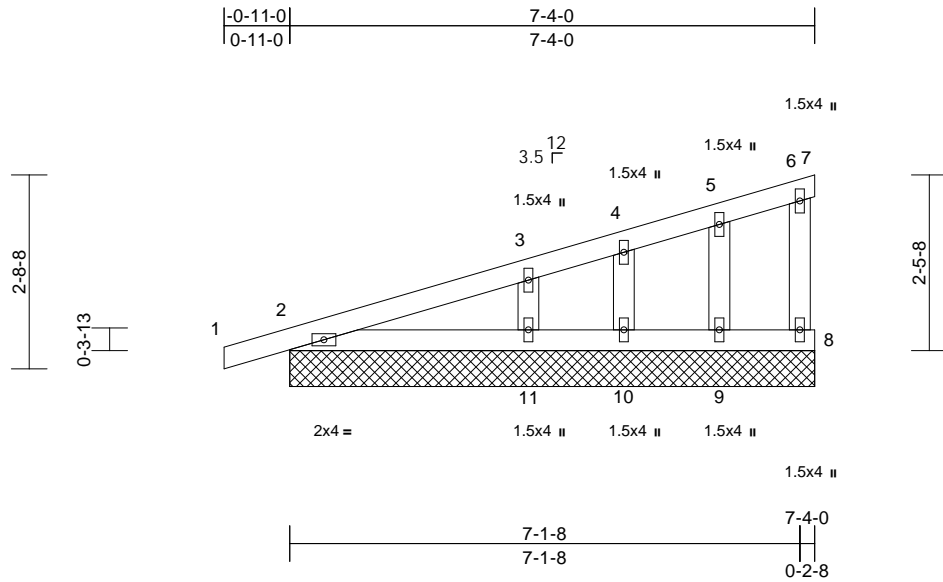
Job 22-1333-A	Truss EE	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495952
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:53

Page: 1

ID:J8Qmsruei\_t4j6R50BpTKGzCHmM-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f



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	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0											
										Weight: 32 lb	FT = 20%	

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

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

**REACTIONS** (lb/size)  
 2=151/7-4-0, 7=5/7-4-0,  
 8=34/7-4-0, 9=111/7-4-0,  
 10=32/7-4-0, 11=229/7-4-0,  
 12=151/7-4-0  
 Max Horiz 2=93 (LC 13), 12=93 (LC 13)  
 Max Uplift 2=50 (LC 12), 7=4 (LC 13), 8=8 (LC 16), 9=26 (LC 16), 10=13 (LC 12), 11=55 (LC 16), 12=50 (LC 12)  
 Max Grav 2=174 (LC 2), 7=6 (LC 23), 8=39 (LC 23), 9=125 (LC 2), 10=38 (LC 23), 11=258 (LC 2), 12=174 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/15, 2-3=-117/72, 3-4=-79/46,  
 4-5=-62/47, 5-6=-39/35, 6-7=-3/2, 6-8=-32/28  
 BOT CHORD 2-11=-37/51, 10-11=-37/40, 9-10=-37/40,  
 8-9=-37/40  
 WEBS 5-9=-89/68, 4-10=-43/45, 3-11=-166/112

**NOTES**  
 1) Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1'-4" 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'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 2, 4 lb uplift at joint 7, 8 lb uplift at joint 8, 26 lb uplift at joint 9, 13 lb uplift at joint 10, 55 lb uplift at joint 11 and 50 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



August 18, 2021

**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



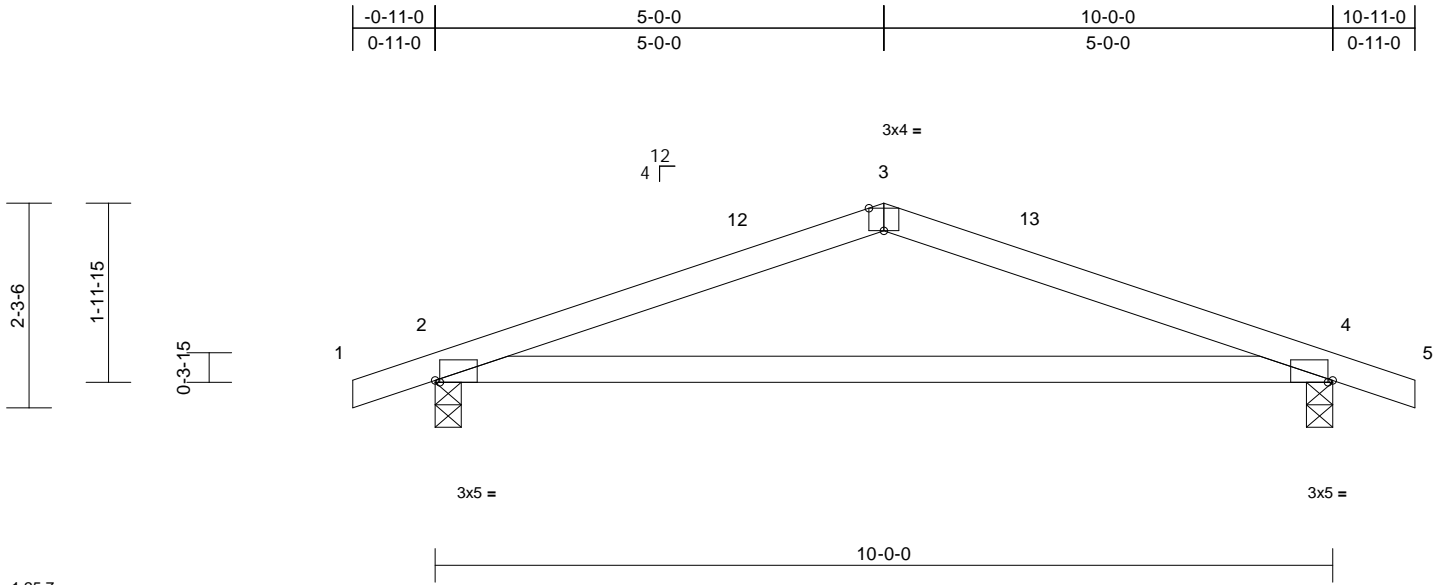
818 Soundside Road  
 Edenton, NC 27932

Job 22-1333-A	Truss F1	Truss Type Common	Qty 5	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	I47495953
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:54  
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Page: 1



Scale = 1:25.7  
Plate Offsets (X, Y): [2:0-0-10,Edge], [3:0-2-0,Edge], [4:0-0-10,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	Vert(LL)	-0.15	8-11	>794	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	Vert(CT)	-0.34	8-11	>356	240		
TCDL	10.0	Rep Stress Incr	YES	WB	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0									Weight: 34 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2

**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.

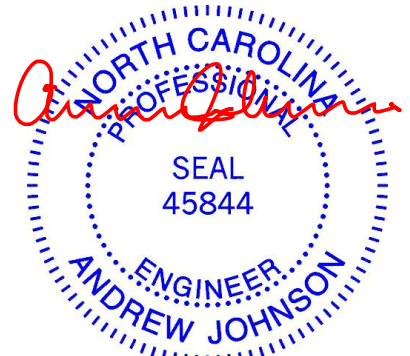
**REACTIONS** (lb/size) 2=401/0-3-8, 4=401/0-3-8  
Max Horiz 2=-33 (LC 17)  
Max Uplift 2=-94 (LC 12), 4=-94 (LC 13)  
Max Grav 2=455 (LC 2), 4=455 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/17, 2-3=-619/248, 3-4=-619/248, 4-5=0/17  
BOT CHORD 2-4=-165/577

- 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 94 lb uplift at joint 2 and 94 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
  - Unbalanced snow loads have been considered for this design.



August 18, 2021

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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



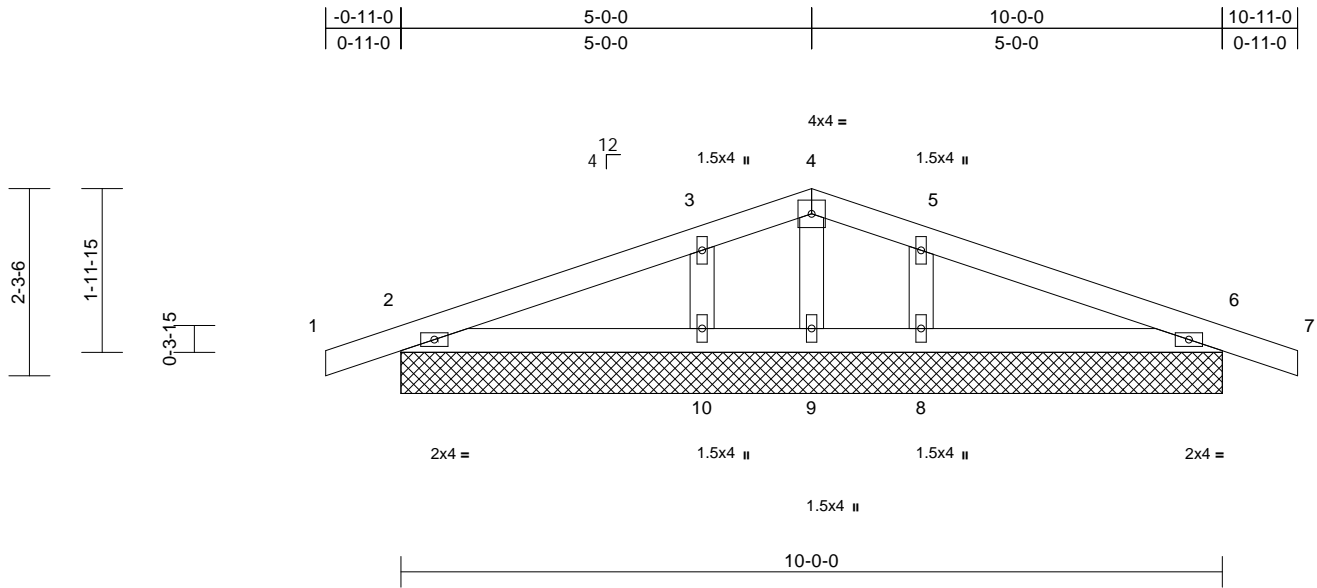
818 Soundside Road  
Edenton, NC 27932

Job 22-1333-A	Truss FE	Truss Type Common Supported Gable	Qty 1	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495954
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:54  
ID:7J3Q2fBEQtICEL\_q7UJ9sfnHSL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:28.1

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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
										Weight: 39 lb	FT = 20%	

#### LUMBER

TOP CHORD 2x4 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) 2=161/10-0-0, 6=161/10-0-0, 8=271/10-0-0, 9=65/10-0-0, 10=271/10-0-0, 11=161/10-0-0, 15=161/10-0-0  
Max Horiz 2=-33 (LC 17), 11=-33 (LC 17)  
Max Uplift 2=-62 (LC 12), 6=-66 (LC 13), 8=-66 (LC 17), 9=-72 (LC 2), 10=-67 (LC 16), 11=-62 (LC 12), 15=-66 (LC 13)  
Max Grav 2=185 (LC 2), 6=185 (LC 2), 8=306 (LC 2), 9=35 (LC 13), 10=306 (LC 2), 11=185 (LC 2), 15=185 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

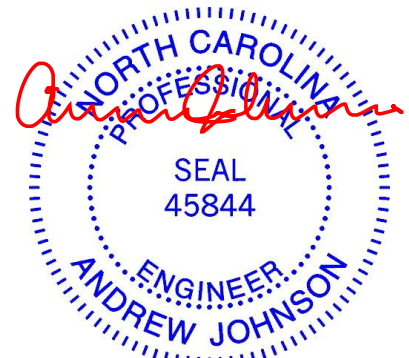
TOP CHORD 1-2=0/17, 2-3=-47/41, 3-4=-39/71, 4-5=-38/70, 5-6=-46/30, 6-7=0/17  
BOT CHORD 2-10=-7/38, 9-10=-7/35, 8-9=-7/35, 6-8=-7/40  
WEBS 4-9=-35/32, 3-10=-194/122, 5-8=-194/122

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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 1'-4" 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 62 lb uplift at joint 2, 66 lb uplift at joint 6, 72 lb uplift at joint 9, 67 lb uplift at joint 10, 66 lb uplift at joint 8, 62 lb uplift at joint 2 and 66 lb uplift at joint 6.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 15.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 18, 2021

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ENGINEERING BY  
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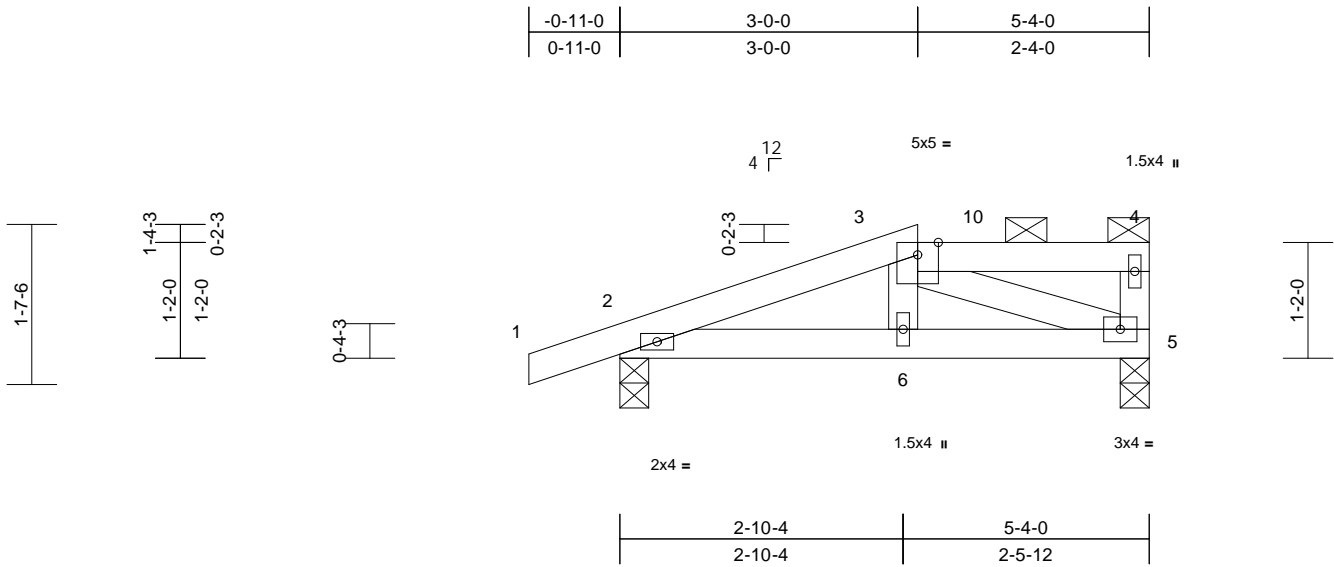
818 Soundside Road  
Edenton, NC 27932

Job 22-1333-A	Truss G1	Truss Type Half Hip	Qty 7	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495955
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:55  
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Page: 1



Scale = 1:23.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.01	6-9	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	6-9	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 23 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 5-4-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 2=283/0-3-8, 5=275/0-3-8  
Max Horiz 2=41 (LC 15)  
Max Uplift 2=-32 (LC 12)  
Max Grav 2=362 (LC 37), 5=348 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/23, 2-3=-554/0, 3-4=-18/21, 4-5=-124/36  
BOT CHORD 2-6=-17/517, 5-6=-5/509  
WEBS 3-6=0/104, 3-5=-556/0

**NOTES**

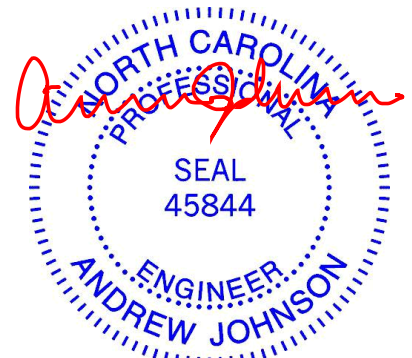
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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.
- 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 32 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-3=-51, 3-4=-77, 5-7=-20  
Concentrated Loads (lb)  
Vert: 3=-87
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-3=-60, 3-4=-76, 5-7=-20  
Concentrated Loads (lb)  
Vert: 3=-174

- Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-3=-50, 3-4=-98, 5-7=-20  
Concentrated Loads (lb)  
Vert: 3=-152



August 18, 2021

**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 ANSITPI 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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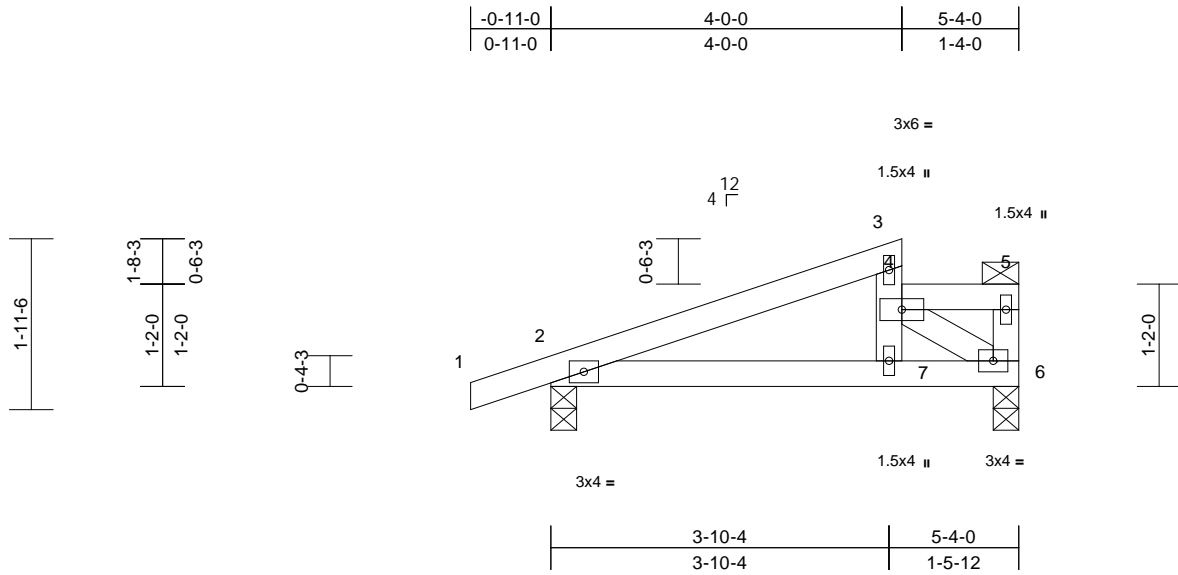
Job 22-1333-A	Truss G2	Truss Type Half Hip	Qty 4	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495956
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:55

Page: 1

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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	0.60	Vert(LL)	-0.01	7-10	>999	360	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.03	7-10	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 22 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 5-4-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-7, 4-5.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 2=264/0-3-8, 6=291/0-3-8  
Max Horiz 2=63 (LC 13)  
Max Uplift 2=-44 (LC 12)  
Max Grav 2=360 (LC 37), 6=395 (LC 3)

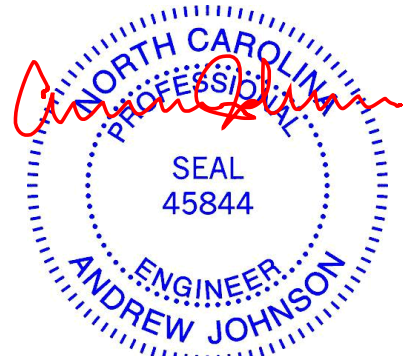
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/23, 2-3=-346/0, 4-7=-8/126, 3-4=-171/0, 4-5=-16/17, 5-6=-104/12  
BOT CHORD 2-7=-39/306, 6-7=-26/466  
WEBS 4-6=-558/18

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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.
- 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 44 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-3=-60, 4-5=-90, 6-8=-20  
Concentrated Loads (lb)  
Vert: 3=-174
- Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor:  
Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-3=-50, 4-5=-140, 6-8=-20  
Concentrated Loads (lb)  
Vert: 3=-152

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 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 (2) -0-11-0 to 5-2-4 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

- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-3=-51, 4-5=-91, 6-8=-20  
Concentrated Loads (lb)  
Vert: 3=-87



August 18, 2021

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**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



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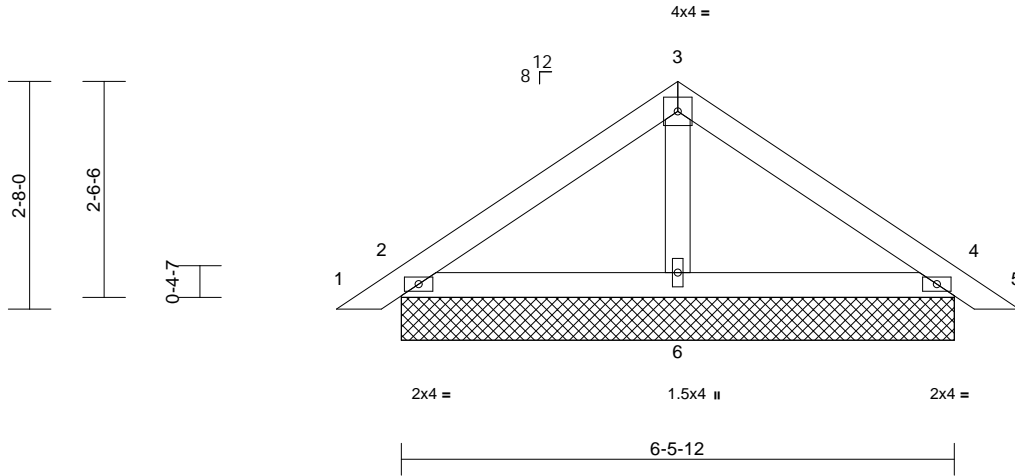
Job 22-1333-A	Truss P1	Truss Type Piggyback	Qty 14	Ply 1	JSJ-PINEWOOD A-LOT #45 WFS ROOF Job Reference (optional)	147495957
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Riverside Roof Truss, LLC, Danville, Va - 24541,

Run: 8.51 S Jul 28 2021 Print: 8.510 S Jul 28 2021 MiTek Industries, Inc. Tue Aug 17 14:32:56  
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Page: 1

-0-9-2	3-2-14	6-5-12	7-2-14
0-9-2	3-2-14	3-2-14	0-9-2



Scale = 1:27

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 27 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 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) 2=156/6-5-12, 4=156/6-5-12, 6=198/6-5-12, 7=156/6-5-12, 11=156/6-5-12  
Max Horiz 2=-62 (LC 14), 7=-62 (LC 14)  
Max Uplift 2=-39 (LC 16), 4=-47 (LC 17), 7=-39 (LC 16), 11=-47 (LC 17)  
Max Grav 2=178 (LC 2), 4=178 (LC 2), 6=221 (LC 2), 7=178 (LC 2), 11=178 (LC 2)

**FORCES**

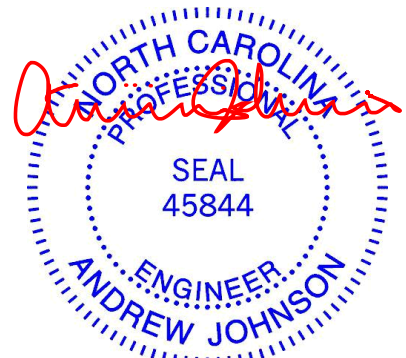
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/17, 2-3=-111/64, 3-4=-109/65, 4-5=0/17  
BOT CHORD 2-6=-18/58, 4-6=-8/58  
WEBS 3-6=-92/12

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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 (2) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 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) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2, 47 lb uplift at joint 4, 39 lb uplift at joint 2 and 47 lb uplift at joint 4.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



August 18, 2021

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



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

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MITek Engineering Reference Sheet: Mill-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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.