

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: Q015549-R  
John-Jennifer Miceli WI

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Load Star - Lavonia, GA.

Pages or sheets covered by this seal: I59118161 thru I59118184

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



June 22, 2023

Johnson, Andrew

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

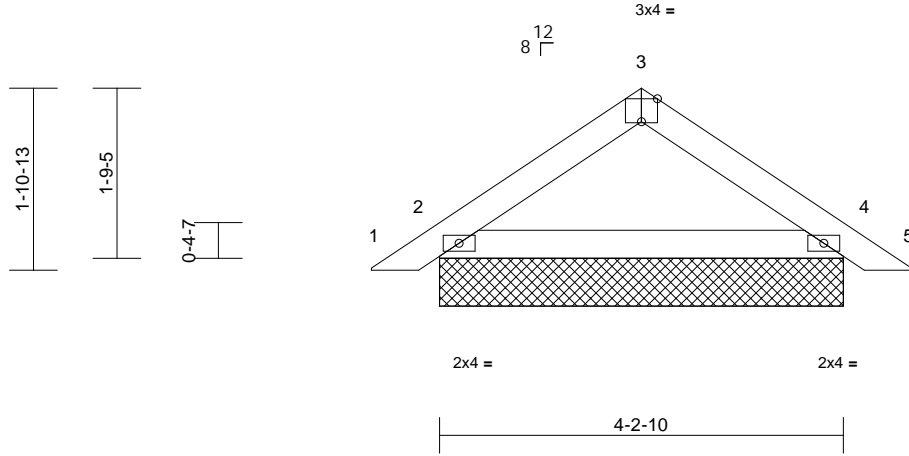
Job Q015549-R	Truss C1	Truss Type Piggyback	Qty 23	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	I59118161
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:49  
ID:O4eU9sjXc5V1cbeT8l1nYNzHxTV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC7f

Page: 1

-0-8-9	2-1-5	4-2-10	4-11-3
0-8-9	2-1-5	2-1-5	0-8-9



Scale = 1:24.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	6.9/10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 16 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 5-8-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

(size) 2=4-2-10, 4=4-2-10, 6=4-2-10, 10=4-2-10  
Max Horiz 2=-42 (LC 12), 6=-42 (LC 12)  
Max Uplift 2=-37 (LC 14), 4=-33 (LC 15), 6=-37 (LC 14), 10=-33 (LC 15)  
Max Grav 2=197 (LC 2), 4=204 (LC 2), 6=197 (LC 2), 10=204 (LC 2)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-3=-133/53, 3-4=-134/51, 4-5=0/16  
BOT CHORD 2-4=-11/103

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; 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=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=6.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 20 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



June 22, 2023

**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



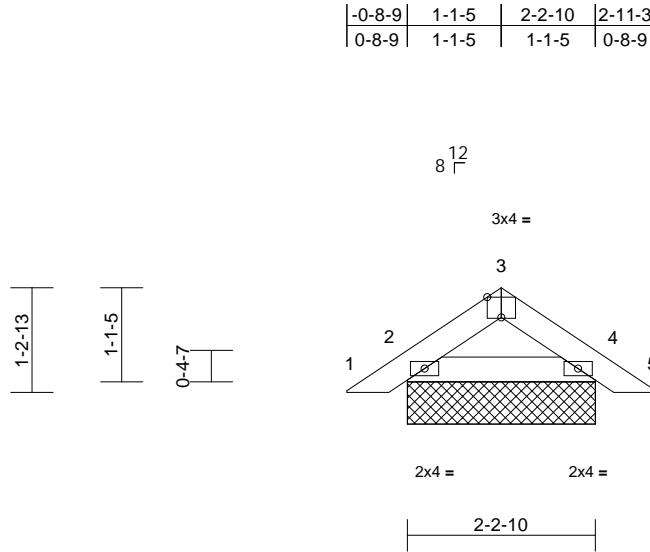
818 Soundside Road  
Edenton, NC 27932

Job Q015549-R	Truss C2	Truss Type Piggyback	Qty 6	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118162
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:51  
ID:ILZ\_zwCheu?atVY6r4kd1JzHxRa-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCD0i7J4zJC?f

Page: 1



Scale = 1:27.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	6.9/10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0											
										Weight: 10 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 3-8-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=2-2-10, 4=2-2-10, 6=2-2-10, 10=2-2-10  
Max Horiz 2=-26 (LC 12), 6=-26 (LC 12)  
Max Uplift 2=-25 (LC 14), 4=-21 (LC 15), 6=-25 (LC 14), 10=-21 (LC 15)  
Max Grav 2=118 (LC 2), 4=124 (LC 2), 6=118 (LC 2), 10=124 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/16, 2-3=-60/24, 3-4=-61/22, 4-5=0/16  
BOT CHORD 2-4=-1/52

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=6.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 20 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



June 22, 2023

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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

ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

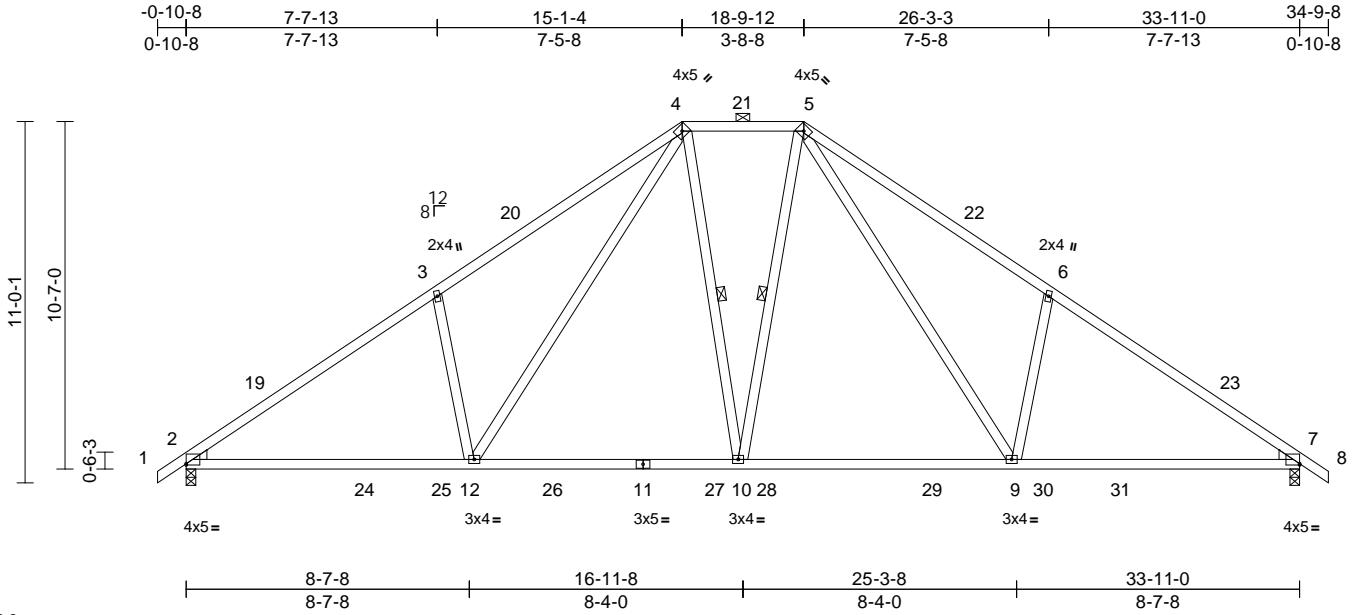
818 Soundside Road  
Edenton, NC 27932

Job Q015549-R	Truss R1	Truss Type Piggyback Base	Qty 5	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118163
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:52  
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Page: 1



Scale = 1:70.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	-0.18	9-10	>999	240	MT20	244/190
Snow (Pf/Pg)	11.9/10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.31	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 196 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.2 \*Except\* 12-3,9-6:2x4 SP No.3  
WEDGE Left: 2x4 SP No.3  
Right: 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied, except  
2-0-0 oc purlins (5-1-6 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**  
(size) 2=0-3-8, 7=0-3-8  
Max Horiz 2=264 (LC 13)  
Max Uplift 2=-234 (LC 14), 7=-234 (LC 15)  
Max Grav 2=1485 (LC 26), 7=1485 (LC 27)

**FORCES**  
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/29, 2-3=-2131/342, 3-4=-2112/491, 4-5=-1248/343, 5-6=-2113/491, 6-7=-2131/342, 7-8=0/29  
BOT CHORD 2-12=-317/1862, 10-12=-85/1286, 9-10=-49/1248, 7-9=-184/1693  
WEBS 3-12=-491/358, 4-12=-307/908, 4-10=-92/303, 5-10=-92/302, 5-9=-306/910, 6-9=-490/358

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-6-3, Interior (1) 2-6-3 to 15-1-4, Exterior (2) 15-1-4 to 23-7-5, Interior (1) 23-7-5 to 34-9-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=11.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 7. This connection is for uplift only and does not consider lateral forces.
- 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



June 22, 2023

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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

ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

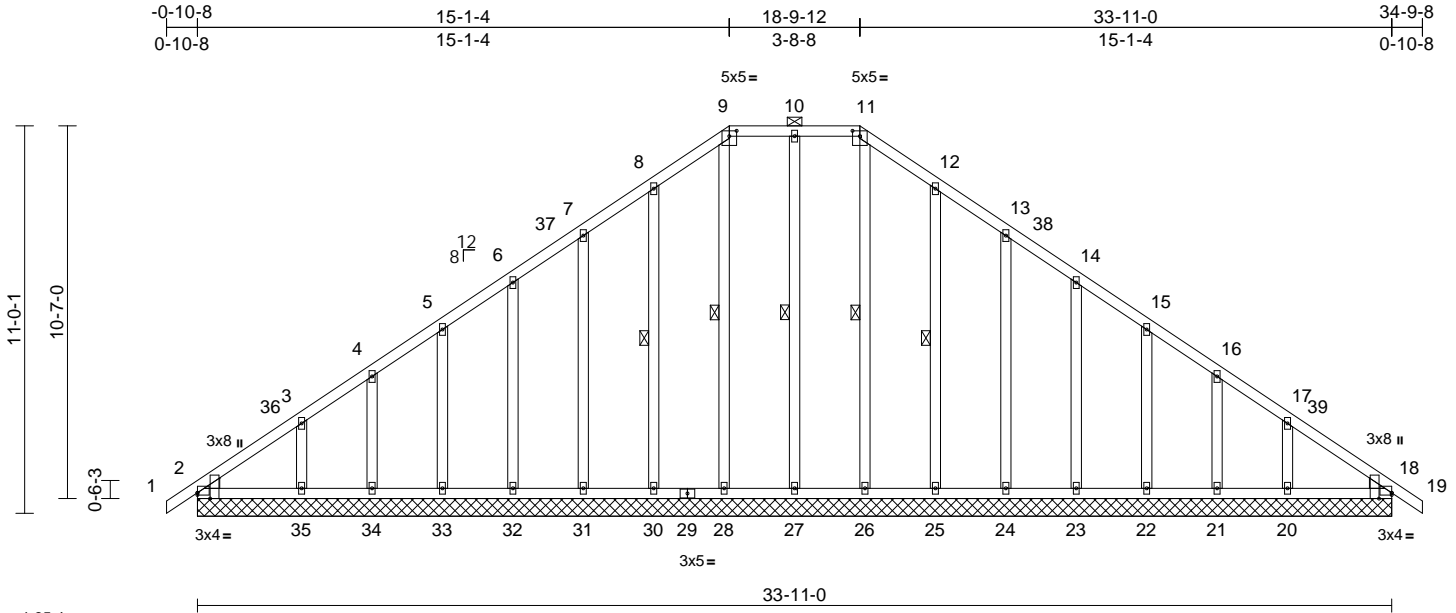
818 Soundside Road  
Edenton, NC 27932

Job Q015549-R	Truss R1G	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118164
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Load Star, Lavonia, GA - 30553,

Run: 8.7 E 0 Mar 9 2023 Print: 8.700 E Mar 9 2023 MiTek Industries, Inc. Thu Jun 22 17:27:13  
ID:KTIFaYn8jmlsvorFA3FdozHxTT-IQklwCrV6CEhb00NvFBz5dRZ0mpLnzfilasJoz3gdC

Page: 1



Scale = 1:65.4

Plate Offsets (X, Y): [2:Edge,0-0-12], [2:0-1-15,Edge], [9:0-2-8,0-1-13], [11:0-2-8,0-1-13], [18:Edge,0-0-12], [18:0-1-15,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.9/10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	18	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 253 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x4 SP No.2
  - BOT CHORD 2x4 SP No.2
  - OTHERS 2x4 SP No.3
  - WEDGE Left: 2x4 SP No.3  
Right: 2x4 SP No.3
- BRACING**
- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 9-11.
  - BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
  - WEBS 1 Row at midpt 10-27, 9-28, 8-30, 11-26, 12-25
- REACTIONS** All bearings 33-11-0.
- (lb) - Max Horiz 2=264 (LC 12)
  - Max Uplift All uplift 100 (lb) or less at joint(s) 2, 18, 21, 22, 23, 24, 25, 27, 28, 30, 31, 32, 33, 34 except 20=113 (LC 15), 35=117 (LC 14)
  - Max Grav All reactions 250 (lb) or less at joint (s) 2, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33, 34 except 35=254 (LC 26)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD** 8-9=235/263
- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-6-3, Interior (1) 2-6-3 to 15-1-4, Exterior (2) 15-1-4 to 23-7-5, Interior (1) 23-7-5 to 34-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=11.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully 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.
  - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Plates checked for a plus or minus 20 degree rotation about its center.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 27, 28, 30, 31, 32, 33, 34, 25, 24, 23, 22, 21 except (jt=lb) 35=117, 20=113.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
  - 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



June 22, 2023

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818 Soundside Road  
Edenton, NC 27932



Job Q015549-R	Truss R2	Truss Type Piggyback Base	Qty 9	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118165
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:52  
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Page: 1

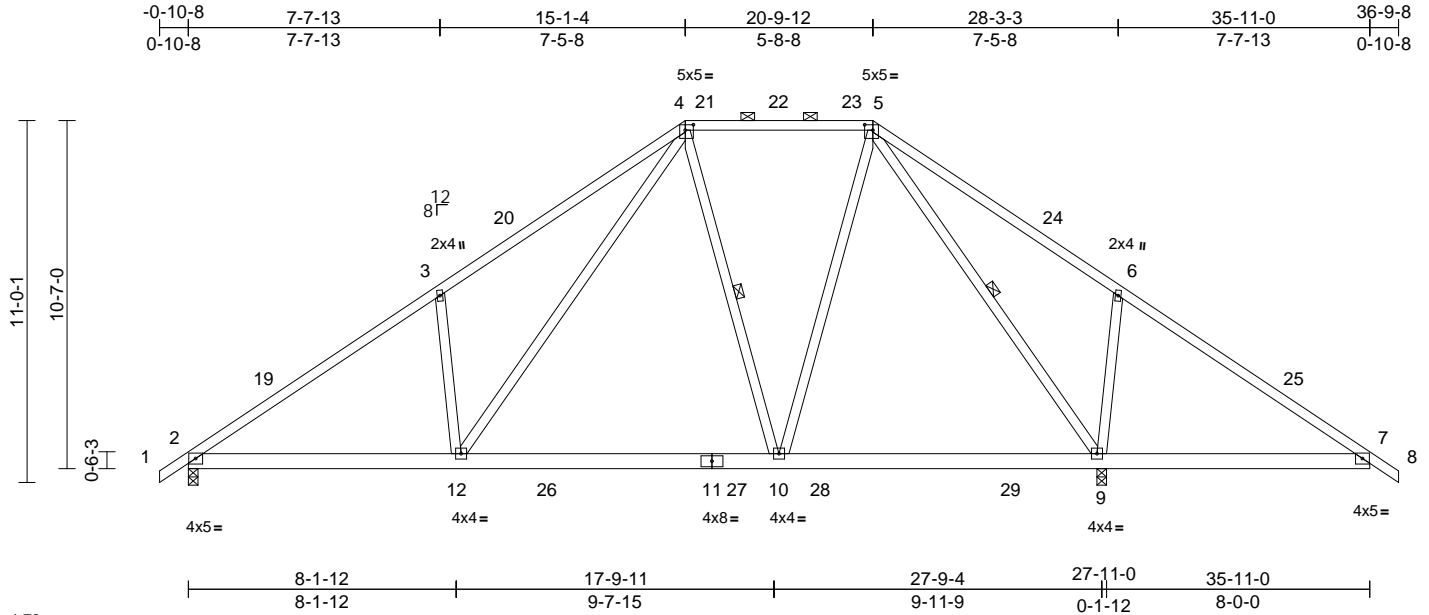


Plate Offsets (X, Y): [4:0-3-0,0-2-0], [5:0-3-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	-0.10	10-12	>999	240	MT20	244/190
Snow (Pf/Pg)	11.9/10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.17	10-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.02	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 231 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3 \*Except\* 4-12,9-5:2x4 SP 1650F 1.7E, 10-4,10-5:2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-5-10 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, Except: 6-0-0 oc bracing: 7-9.  
WEBS 1 Row at midpt 4-10, 5-9

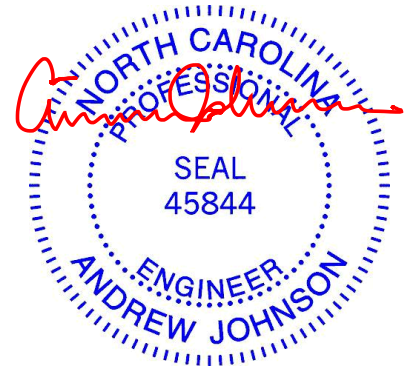
**REACTIONS**  
(size) 2=0-3-8, 9=0-3-8  
Max Horiz 2=264 (LC 13)  
Max Uplift 2=-211 (LC 14), 9=-324 (LC 15)  
Max Grav 2=1090 (LC 26), 9=1928 (LC 2)

**FORCES**  
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/29, 2-3=-1504/275, 3-4=-1537/480, 4-5=-634/228, 5-6=-204/682, 6-7=-371/649, 7-8=0/29  
BOT CHORD 2-12=-277/1343, 10-12=-113/757, 9-10=-62/520, 7-9=-428/409  
WEBS 3-12=-502/365, 4-12=-334/950, 4-10=-359/218, 5-10=-73/728, 5-9=-1459/380, 6-9=-505/366

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-8-10, Interior (1) 2-8-10 to 15-1-4, Exterior (2) 15-1-4 to 20-2-3, Interior (1) 20-2-3 to 20-9-12, Exterior (2) 20-9-12 to 25-10-11, Interior (1) 25-10-11 to 36-9-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=11.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. This connection is for uplift only and does not consider lateral forces.
- 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



June 22, 2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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

ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

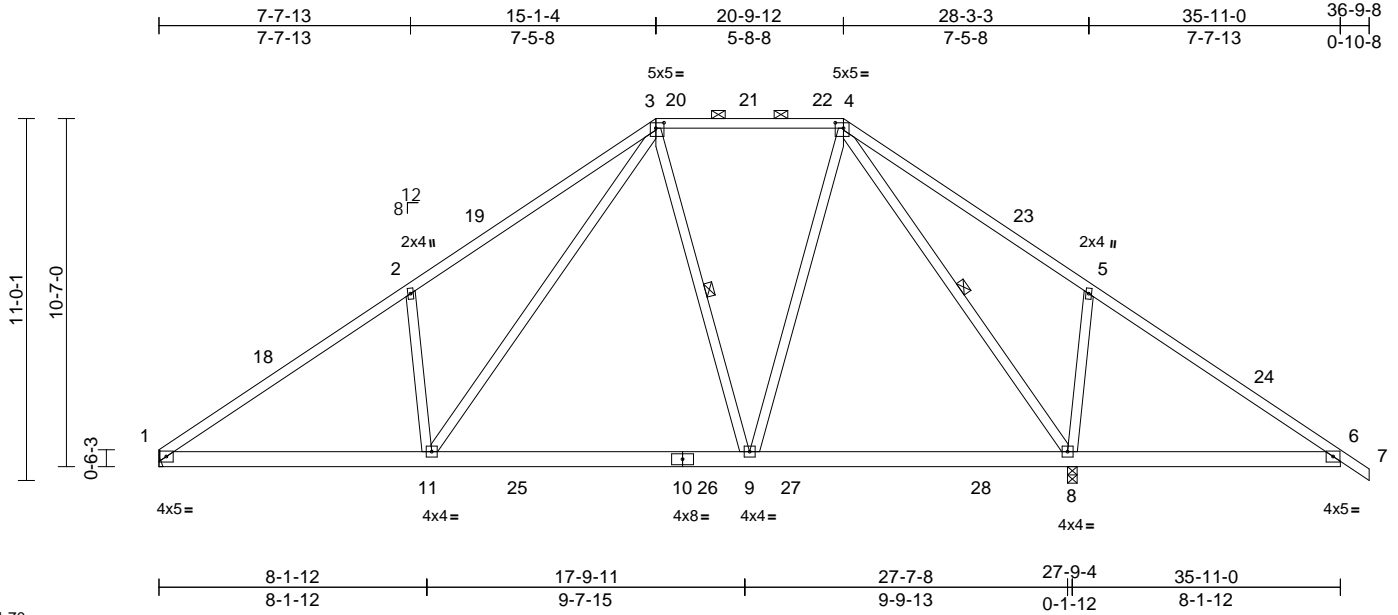
818 Soundside Road  
Edenton, NC 27932

Job Q015549-R	Truss R2A	Truss Type Piggyback Base	Qty 2	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118166
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:53  
ID:hQZ8dFowzFO1yghp2jfQKszHxTO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:70  
Plate Offsets (X, Y): [3:0-3-0,0-2-0], [4:0-3-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	-0.10	9-11	>999	240	MT20	244/190
Snow (Pf/Pg)	11.9/10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.17	9-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 229 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3 \*Except\* 9-3,9-4:2x4 SP No.2, 8-4,3-11:2x4 SP 1650F 1.7E

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-2-14 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 6-8.  
WEBS 1 Row at midpt 3-9, 4-8

**REACTIONS**  
(size) 1= Mechanical, 8=0-3-8  
Max Horiz 1=-259 (LC 12)  
Max Uplift 1=-189 (LC 14), 8=-324 (LC 15)  
Max Grav 1=1040 (LC 26), 8=1928 (LC 2)

**FORCES**  
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-1508/277, 2-3=-1541/483, 3-4=-634/228, 4-5=-204/682, 5-6=-371/649, 6-7=0/29  
BOT CHORD 1-11=-279/1346, 9-11=-114/758, 8-9=-62/520, 6-8=-428/409  
WEBS 2-11=-503/365, 3-9=-360/219, 4-9=-74/729, 5-8=-505/366, 4-8=-1459/380, 3-11=-337/955

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-7-2, Interior (1) 3-7-2 to 15-1-4, Exterior (2) 15-1-4 to 20-2-3, Interior (1) 20-2-3 to 20-9-12, Exterior (2) 20-9-12 to 25-10-11, Interior (1) 25-10-11 to 36-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=11.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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 189 lb uplift at joint 1.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
- 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) 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



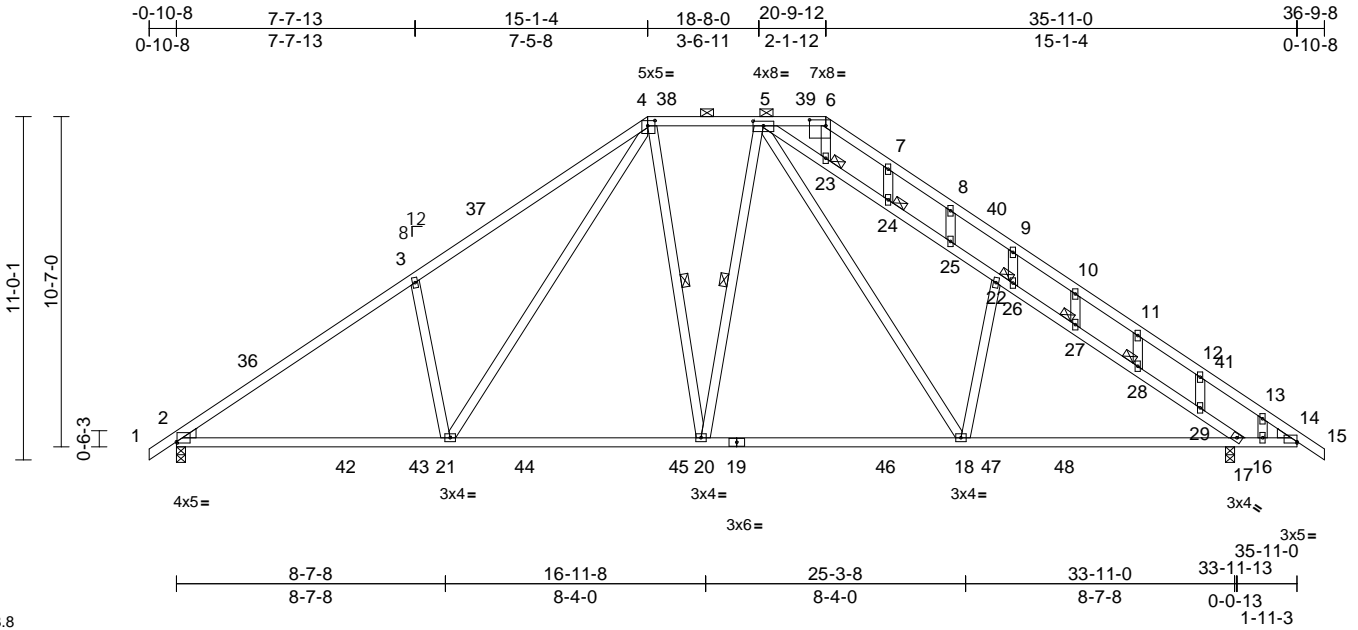
June 22, 2023

Job Q015549-R	Truss R2G	Truss Type Piggyback Base	Qty 1	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118167
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:53  
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Page: 1



Scale = 1:73.8

Plate Offsets (X, Y): [2:0-0-4,0-0-8], [4:0-2-12,0-2-0], [5:0-4-0,0-1-12], [6:0-6-4,0-2-4], [14:Edge,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.18	18-20	>999	240	MT20	244/190
Snow (Pf/Pg)	11.9/10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.32	18-20	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.08	17	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 242 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2 \*Except\* 1-4:2x4 SP 2700F  
2.2E or 2x4 SP M 31  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.2 \*Except\* 21-3,18-22:2x4 SP No.3  
OTHERS 2x4 SP No.3  
WEDGE Left: 2x4 SP No.3  
Right: 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-1-6 oc purlins, except 2-0-0 oc purlins (5-1-10 max.): 4-6.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 5-20, 4-20  
JOINTS 1 Brace at Jt(s): 22, 23, 24, 27, 28

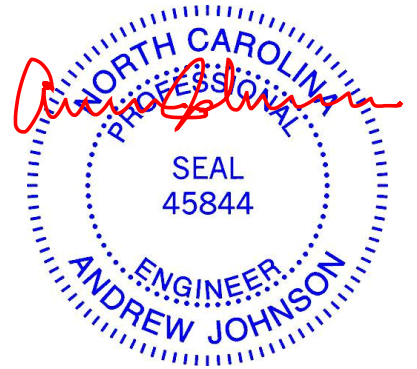
**REACTIONS** (size) 2=0-3-8, 17=0-3-8  
Max Horiz 2=-264 (LC 12)  
Max Uplift 2=-219 (LC 14), 17=-235 (LC 15)  
Max Grav 2=1477 (LC 26), 17=1580 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/29, 2-3=-2136/349, 3-4=-2101/487, 4-5=-1252/347, 5-6=-475/313, 6-7=-535/335, 7-8=-525/299, 8-9=-477/238, 9-10=-351/116, 10-11=-349/88, 11-12=-340/59, 12-13=-388/25, 13-14=-244/59, 14-15=0/29  
BOT CHORD 2-21=-307/1853, 20-21=-76/1275, 18-20=-44/1232, 17-18=-160/1658, 16-17=0/246, 14-16=-148/246

**WEBS**  
3-21=-494/361, 4-21=-308/909,  
5-20=-71/295, 4-20=-92/303,  
18-22=-448/325, 5-18=-251/830,  
5-23=-1684/290, 23-24=-1645/267,  
24-25=-1668/284, 22-25=-1725/325,  
22-26=-1593/229, 26-27=-1713/315,  
27-28=-1729/328, 28-29=-1755/341,  
17-29=-1746/360, 6-23=-71/126,  
7-24=-62/46, 8-25=-133/96, 9-26=-280/204,  
10-27=-39/30, 11-28=-60/36, 12-29=-23/47,  
13-16=-730/381

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-8-10, Interior (1) 2-8-10 to 15-1-4, Exterior (2) 15-1-4 to 20-2-3, Interior (1) 20-2-3 to 20-9-12, Exterior (2) 20-9-12 to 25-10-11, Interior (1) 25-10-11 to 36-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=11.9 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
  - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.

- Plates checked for a plus or minus 20 degree rotation about its center.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- One HTS20 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
- 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.



June 22, 2023

Continued on page 3

**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 Q015549-R	Truss R2G	Truss Type Piggyback Base	Qty 1	Ply 1	John-Jennifer Miceli WI I59118167 Job Reference (optional)
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:53  
ID:9d7WqbpYjZWuaqF?cRAfs3zHxTN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

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

**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

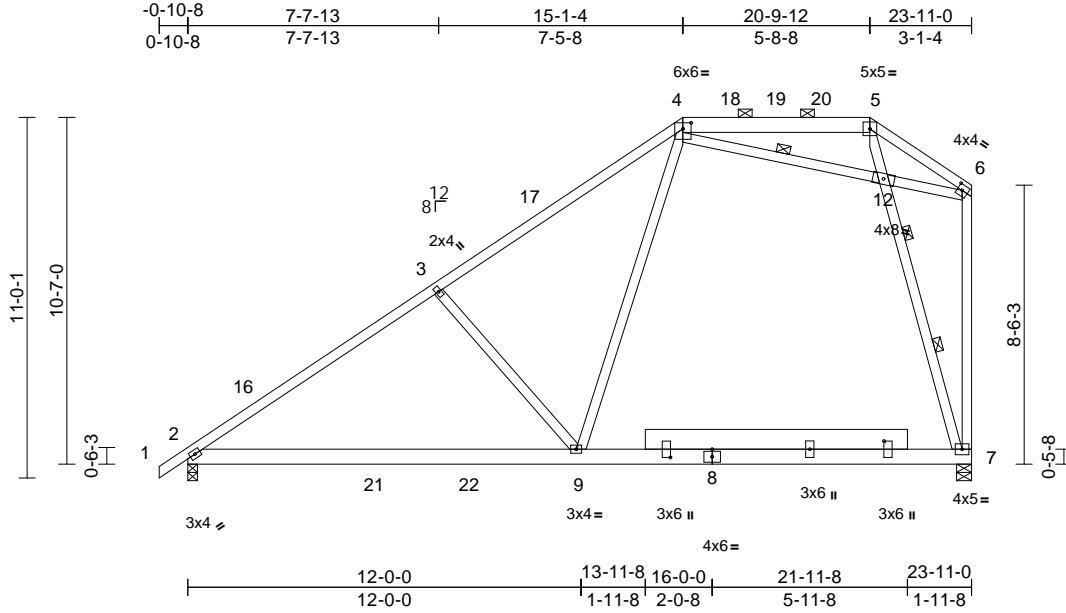
818 Soundside Road  
Edenton, NC 27932

Job Q015549-R	Truss R3	Truss Type Piggyback Base	Qty 5	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118168
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:54  
ID:dpgu2xqAUselB\_qC98huPHzHxTM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:70.3

Plate Offsets (X, Y): [4:0-3-0,0-2-3], [6:0-1-12,0-2-0], [8:0-2-15,5-2-14], [8:0-0-5,1-3-5]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.18	9-15	>999	240	MT20	244/190
Snow (Pf/Pg)	11.9/10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.36	9-15	>783	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 193 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2 \*Except\* 4-5:2x6 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\* 10-11:2x8 SP No.2  
 WEBS 2x4 SP No.3 \*Except\* 7-5,9-4:2x4 SP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-9-6 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-5.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 4-12  
 WEBS 2 Rows at 1/3 pts 5-7

**REACTIONS** (size) 2=0-3-8, 7=0-5-8

Max Horiz 2=365 (LC 14)  
 Max Uplift 2=-160 (LC 14), 7=-199 (LC 14)  
 Max Grav 2=1004 (LC 2), 7=950 (LC 2)

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

TOP CHORD 1-2=0/29, 2-3=-1282/199, 3-4=-996/197, 4-5=-427/1428, 5-6=-669/2108, 6-7=-293/913  
 BOT CHORD 2-9=-402/1033, 7-9=-165/520  
 WEBS 5-12=-1385/443, 7-12=-1760/573, 4-9=-94/744, 3-9=-468/322, 6-12=-1723/571, 4-12=-1992/660

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 15-1-4, Exterior (2) 15-1-4 to 19-4-3, Interior (1) 19-4-3 to 20-9-12, Exterior (2) 20-9-12 to 23-9-4 zone; cantilever left exposed; end vertical left 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=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=11.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 2. This connection is for uplift only and does not consider lateral forces.
- 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



**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



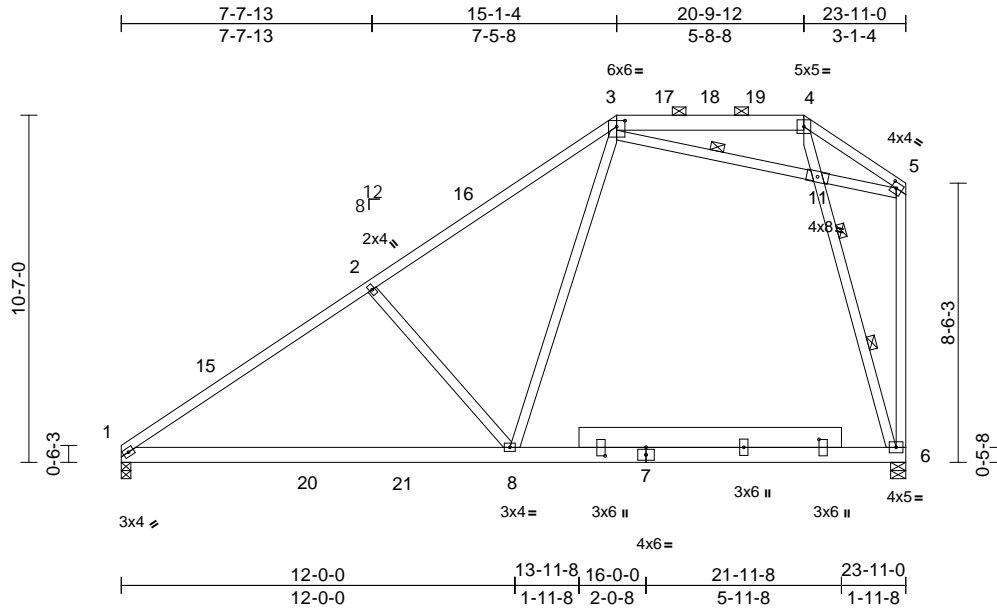
818 Soundside Road  
 Edenton, NC 27932

Job Q015549-R	Truss R3A	Truss Type Piggyback Base	Qty 1	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118169
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:54  
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Page: 1



Scale = 1:70.2

Plate Offsets (X, Y): [1:0-1-3,0-1-8], [3:0-3-0,0-2-3], [5:0-1-12,0-2-0], [7:0-2-14,5-3-4], [7:0-0-6,1-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.19	8-14	>999	240	MT20	244/190
Snow (Pf/Pg)	11.9/10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.37	8-14	>771	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.02	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 191 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2 \*Except\* 3-4:2x6 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\* 9-10:2x8 SP No.2  
 WEBS 2x4 SP No.3 \*Except\* 6-4,8-3:2x4 SP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-6-1 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 3-4.

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

WEBS 1 Row at midpt 3-11  
 WEBS 2 Rows at 1/3 pts 4-6

**REACTIONS** (size) 1=0-3-8, 6=0-5-8

Max Horiz 1=346 (LC 14)  
 Max Uplift 1=-138 (LC 14), 6=-199 (LC 14)  
 Max Grav 1=951 (LC 2), 6=951 (LC 2)

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

TOP CHORD 1-2=-1285/201, 2-3=-999/198,  
 3-4=-429/1431, 4-5=-672/2113, 5-6=-294/915

BOT CHORD 1-8=-404/1035, 6-8=-166/521

WEBS 4-11=-1388/445, 6-11=-1763/575,  
 3-8=-96/747, 2-8=-469/323, 5-11=-1727/573,  
 3-11=-1997/663

**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=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 15-1-4, Exterior (2) 15-1-4 to 19-4-3, Interior (1) 19-4-3 to 20-9-12, Exterior (2) 20-9-12 to 23-9-4 zone; 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=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=11.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.
- 5) Plates checked for a plus or minus 20 degree rotation about its center.
- 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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 6. This connection is for uplift only and does not consider lateral forces.
- 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.
- 10) 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



June 22, 2023

**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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



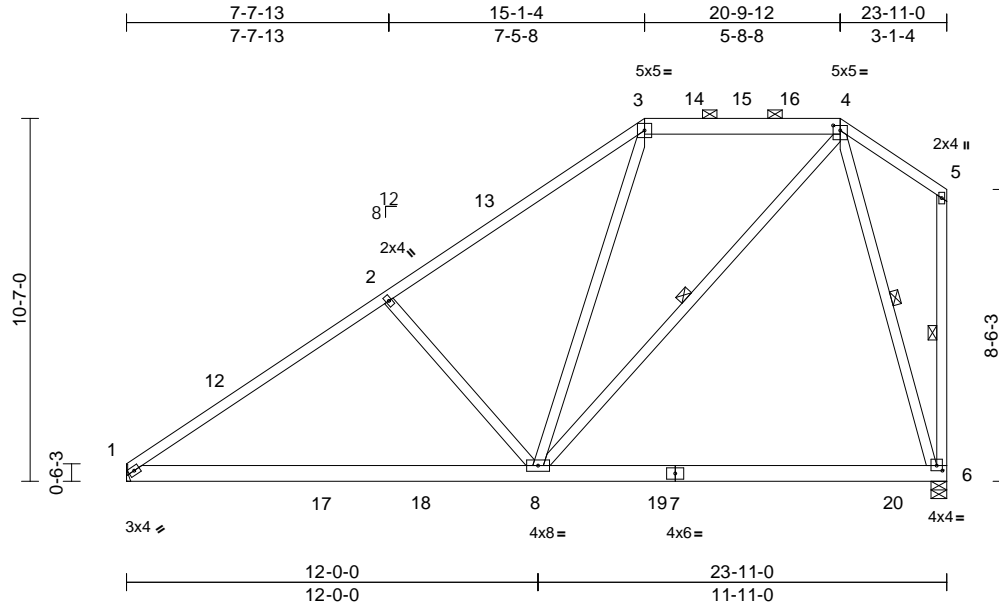
818 Soundside Road  
 Edenton, NC 27932

Job Q015549-R	Truss R3B	Truss Type Piggyback Base	Qty 4	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118170
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:54  
ID:dpgu2xqAUseIB\_qC98huPHzHxTM-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.26	6-8	>999	240	MT20	244/190
Snow (Pf/Pg)	11.9/10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.39	6-8	>729	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 173 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2 \*Except\* 3-4:2x6 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.2 \*Except\* 6-5,8-2:2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-6-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 5-6, 4-6, 4-8

**REACTIONS**

(size) 1= Mechanical, 6=0-5-8  
 Max Horiz 1=346 (LC 14)  
 Max Uplift 1=-138 (LC 14), 6=-199 (LC 14)  
 Max Grav 1=983 (LC 25), 6=1023 (LC 3)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-1312/203, 2-3=-1062/201, 3-4=-740/269, 4-5=-67/52, 5-6=-102/59  
 BOT CHORD 1-8=-405/1120, 6-8=-65/232  
 WEBS 4-6=-810/241, 3-8=0/288, 2-8=-456/320, 4-8=-244/810

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 15-1-4, Exterior (2) 15-1-4 to 19-4-3, Interior (1) 19-4-3 to 20-9-12, Exterior (2) 20-9-12 to 23-9-4 zone; 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=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=11.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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 138 lb uplift at joint 1.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
- 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



June 22, 2023

**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



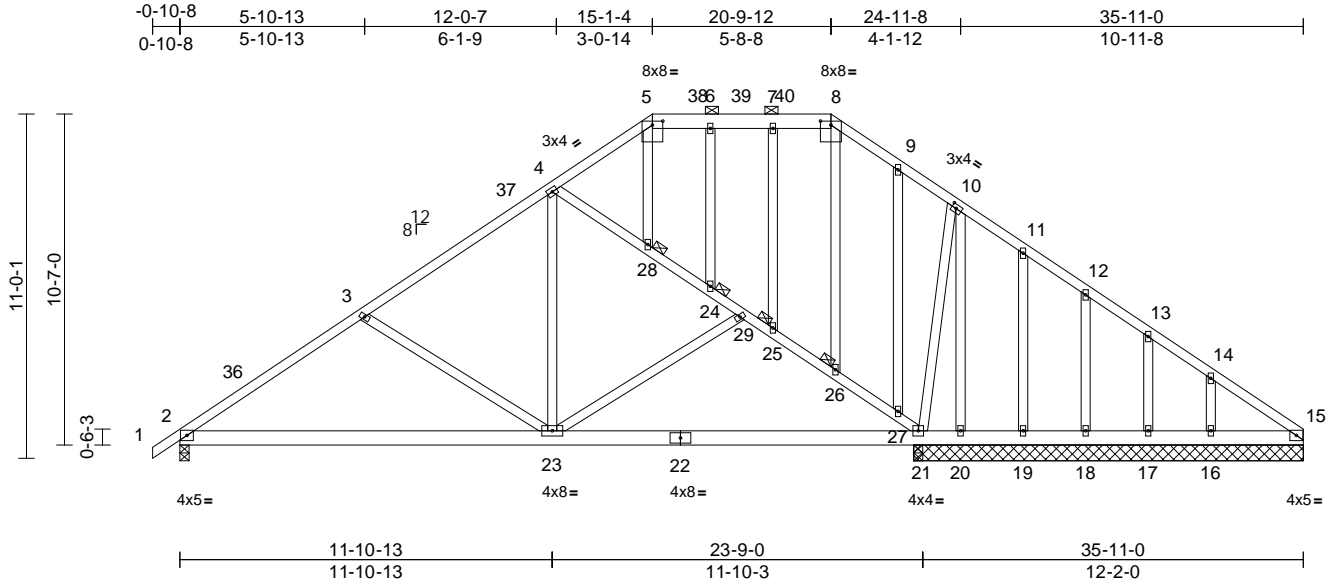
818 Soundside Road  
Edenton, NC 27932

Job Q015549-R	Truss R3G	Truss Type Piggyback Base Structural Gable	Qty 1	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	I59118171
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:55  
ID:dpgu2xqAUselB\_qC98huPHzHxTM-RfC?PsB70Hq3NSGpqnL8w3uITXbGKwRcDoi7J4zJC?f

Page: 1



Scale = 1:73.7

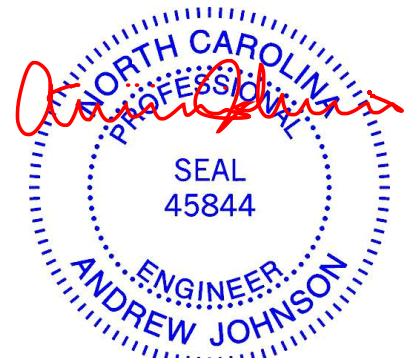
Plate Offsets (X, Y): [5:0-4-0,0-1-9], [8:0-4-0,0-1-9], [10:0-1-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.12	23-35	>999	240	MT20	244/190
Snow (Pf/Pg)	11.9/10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.26	23-35	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.03	30	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 297 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP No.2 *Except* 5-8:2x6 SP No.2	
BOT CHORD	2x6 SP No.2	
WEBS	2x4 SP No.3 *Except* 4-21:2x4 SP No.2	
OTHERS	2x4 SP No.3	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 4-7-12 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-8.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
JOINTS	1 Brace at Jt(s): 24, 25, 26, 28	
REACTIONS	(size)	
	2=0-3-8, 15=12-5-8, 16=12-5-8, 17=12-5-8, 18=12-5-8, 19=12-5-8, 20=12-5-8, 21=12-5-8, 30=12-5-8	
Max Horiz	2=258 (LC 11)	
Max Uplift	2=-190 (LC 14), 15=-25 (LC 11), 16=-125 (LC 15), 17=-49 (LC 15), 18=-86 (LC 15), 19=-31 (LC 15), 20=-349 (LC 5), 21=-40 (LC 14), 30=-25 (LC 11)	
Max Grav	2=1057 (LC 2), 15=249 (LC 29), 16=257 (LC 27), 17=141 (LC 27), 18=171 (LC 27), 19=195 (LC 5), 20=95 (LC 31), 21=1066 (LC 5), 30=249 (LC 29)	
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/29, 2-3=-1420/279, 3-4=-1104/207, 4-5=-303/152, 5-6=-190/143, 6-7=-190/143, 7-8=-190/143, 8-9=-264/151, 9-10=-252/106, 10-11=-257/79, 11-12=-259/77, 12-13=-267/84, 13-14=-301/87, 14-15=-344/106	

BOT CHORD	
2-23=-312/1159, 21-23=-225/971, 20-21=-103/282, 19-20=-104/281, 18-19=-104/281, 17-18=-104/281, 16-17=-104/281, 15-16=-104/281	
WEBS	
4-28=-776/245, 24-28=-779/245, 24-29=-824/259, 25-29=-891/274, 25-26=-951/292, 26-27=-949/282, 21-27=-1034/306, 6-24=-116/68, 7-25=-110/63, 8-26=-18/6, 9-27=-140/88, 10-20=-105/21, 11-19=-122/77, 12-18=-135/101, 13-17=-120/87, 14-16=-160/116, 5-28=-32/28, 10-21=-74/100, 4-23=-10/604, 23-29=-177/95, 3-23=-376/253	
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=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-10-8 to 2-1-8, Interior (1) 2-1-8 to 15-1-4, Exterior (2) 15-1-4 to 19-4-3, Interior (1) 19-4-3 to 20-9-12, Exterior (2) 20-9-12 to 24-10-12, Interior (1) 24-10-12 to 35-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	
3) 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=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=11.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0	

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Plates checked for a plus or minus 20 degree rotation about its center.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15, 2, 21, 20, 19, 18, 17, and 16. This connection is for uplift only and does not consider lateral forces.
- 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.



June 22, 2023

Continued on page 3

**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	John-Jennifer Miceli WI	I59118171
Q015549-R	R3G	Piggyback Base Structural Gable	1	1	Job Reference (optional)	

Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:55  
 ID:dpgu2xqAUseIB\_qC98huPHzHxTM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

14) 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.**

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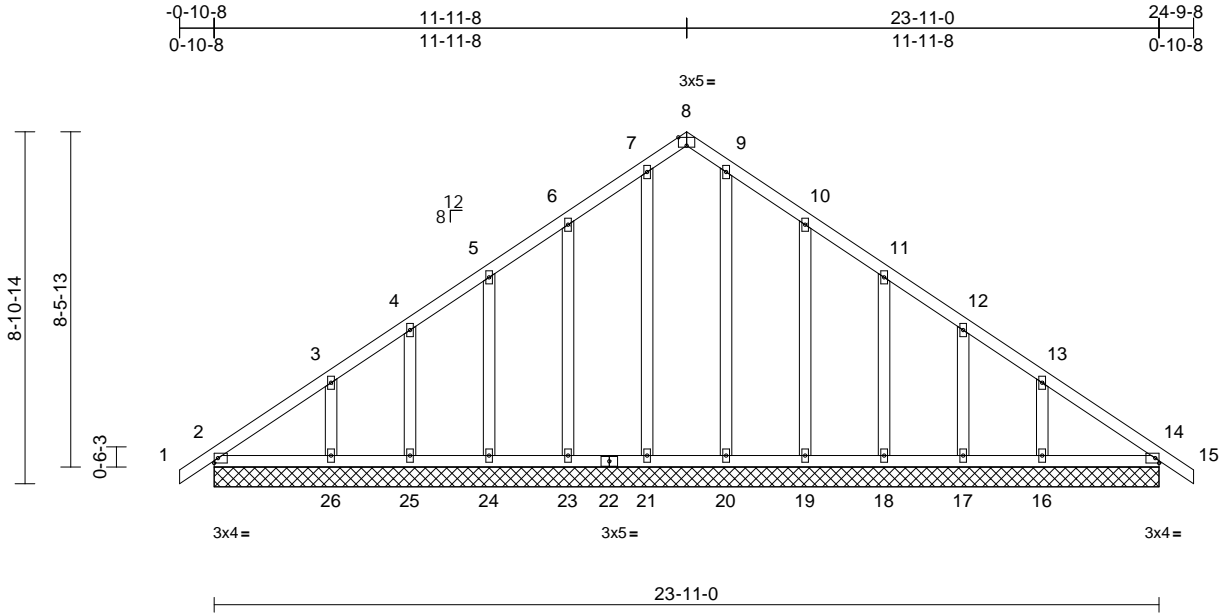
818 Soundside Road  
 Edenton, NC 27932

Job Q015549-R	Truss R4G	Truss Type Common Supported Gable	Qty 1	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	I59118172
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:55  
ID:ofJdnulQv0cT3N2ptaUA0zHxTS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:58.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	6.9/10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 151 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** (size)  
2=23-11-0, 14=23-11-0,  
16=23-11-0, 17=23-11-0,  
18=23-11-0, 19=23-11-0,  
20=23-11-0, 21=23-11-0,  
23=23-11-0, 24=23-11-0,  
25=23-11-0, 26=23-11-0,  
27=23-11-0, 30=23-11-0  
Max Horiz 2=212 (LC 13), 27=212 (LC 13)  
Max Uplift 2=-28 (LC 10), 16=-122 (LC 15),  
17=-53 (LC 15), 18=-71 (LC 15),  
19=-93 (LC 15), 21=-5 (LC 11),  
23=-88 (LC 14), 24=-72 (LC 14),  
25=-52 (LC 14), 26=-126 (LC 14),  
27=-28 (LC 10)  
Max Grav 2=191 (LC 27), 14=180 (LC 2),  
16=250 (LC 27), 17=143 (LC 27),  
18=175 (LC 27), 19=177 (LC 27),  
20=138 (LC 2), 21=155 (LC 26),  
23=171 (LC 26), 24=177 (LC 26),  
25=141 (LC 26), 26=254 (LC 26),  
27=191 (LC 27), 30=180 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/29, 2-3=-214/141, 3-4=-135/99,  
4-5=-118/83, 5-6=-106/84, 6-7=-130/130,  
7-8=-120/115, 8-9=-120/115, 9-10=-130/122,  
10-11=-70/52, 11-12=-81/34, 12-13=-110/50,  
13-14=-181/126, 14-15=0/29

**BOT CHORD** 2-26=-127/201, 25-26=-125/201,  
24-25=-125/201, 23-24=-125/201,  
21-23=-125/201, 20-21=-125/201,  
19-20=-125/201, 18-19=-125/201,  
17-18=-125/201, 16-17=-125/201,  
14-16=-125/201  
**WEBS** 7-21=-115/29, 9-20=-98/0, 6-23=-149/112,  
5-24=-133/94, 4-25=-114/83, 3-26=-184/132,  
10-19=-149/117, 11-18=-132/93,  
12-17=-115/84, 13-16=-184/131

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 11-11-8, Corner (3) 11-11-8 to 14-11-8, Exterior (2) 14-11-8 to 24-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
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=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=6.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10  
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.  
6) All plates are 2x4 MT20 unless otherwise indicated.  
7) Plates checked for a plus or minus 20 degree rotation about its center.  
8) Gable requires continuous bottom chord bearing.

9) Gable studs spaced at 2-0-0 oc.  
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
11) \* 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.  
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 2, 5 lb uplift at joint 21, 88 lb uplift at joint 23, 72 lb uplift at joint 24, 52 lb uplift at joint 25, 126 lb uplift at joint 26, 93 lb uplift at joint 19, 71 lb uplift at joint 18, 53 lb uplift at joint 17, 122 lb uplift at joint 16 and 28 lb uplift at joint 2.  
13) 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



June 22, 2023

**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



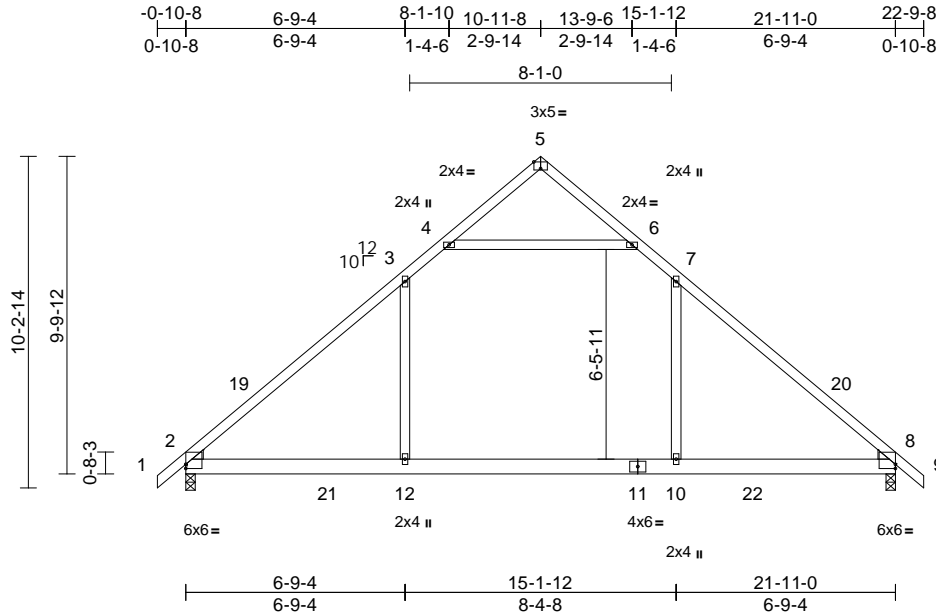
818 Soundside Road  
Edenton, NC 27932

Job Q015549-R	Truss R5	Truss Type Attic	Qty 4	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118173
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:56  
ID:ofJdnulQv0ucT3N2ptaUA0zHxTS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:71.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	0.22	12-15	>999	240	MT20	244/190
Snow (Pf/Pg)	6.9/10.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.32	10-12	>812	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.17	10-12	>608	360		
BCDL	10.0										Weight: 124 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP 1650F 1.7E  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3  
WEDGE Left: 2x4 SP No.3  
Right: 2x4 SP No.3

**BRACING**

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

**REACTIONS**

(size) 2=0-3-8, 8=0-3-8  
Max Horiz 2=-244 (LC 12)  
Max Uplift 2=-67 (LC 14), 8=-67 (LC 15)  
Max Grav 2=1166 (LC 27), 8=1166 (LC 28)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/34, 2-3=-1509/91, 3-4=-945/141, 4-5=-55/129, 5-6=-55/129, 6-7=-945/141, 7-8=-1509/91, 8-9=0/34  
BOT CHORD 2-12=-321/1075, 10-12=0/1075, 8-10=-174/1075  
WEBS 3-12=0/551, 7-10=0/551, 4-6=-1131/166

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-10-8 to 2-1-8, Interior (1) 2-1-8 to 10-11-8, Exterior (2) 10-11-8 to 14-0-2, Interior (1) 14-0-2 to 22-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=6.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-6
- Bottom chord live load (20.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
- 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.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

**LOAD CASE(S)** Standard



June 22, 2023

**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



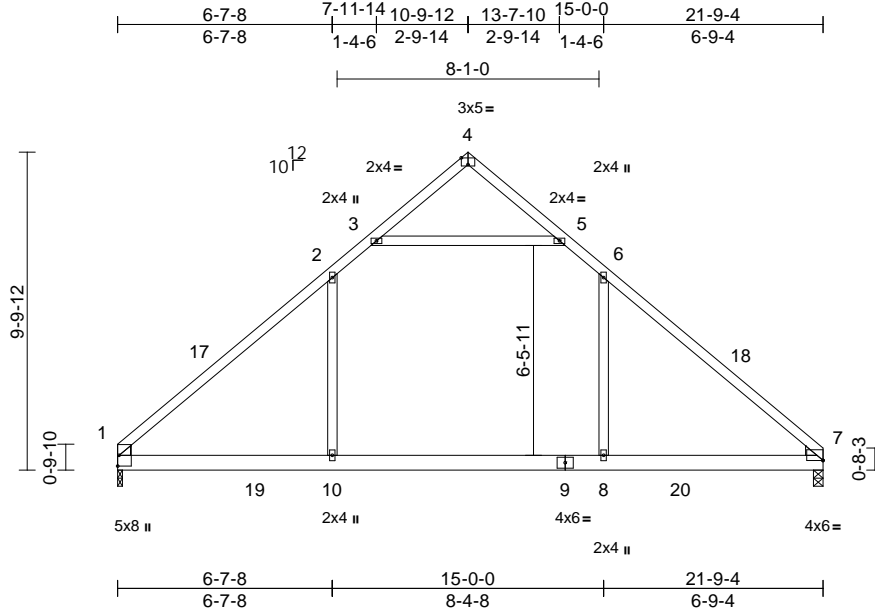
818 Soundside Road  
Edenton, NC 27932

Job Q015549-R	Truss R5A	Truss Type Attic	Qty 6	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	I59118174
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:56  
ID:Hrt?\_Em2gK0S5DyENb6jiDzHxTR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:71.1

Plate Offsets (X, Y): [4:0-2-8,Edge], [7:Edge,0-0-1]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	0.22	8-13	>999	240	MT20	244/190
Snow (Pf/Pg)	6.9/10.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.33	8-10	>784	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.03	1	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.17	8-10	>595	360		
BCDL	10.0										Weight: 120 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP 1650F 1.7E  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3  
WEDGE Left: 2x4 SP No.3  
Right: 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-8-1 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

(size) 1=0-1-12, 7=0-3-8  
Max Horiz 1=-226 (LC 10)  
Max Uplift 1=-43 (LC 14), 7=-45 (LC 15)  
Max Grav 1=1112 (LC 26), 7=1109 (LC 27)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-1490/95, 2-3=-936/143, 3-4=-59/123, 4-5=-60/123, 5-6=-936/145, 6-7=-1492/315  
BOT CHORD 1-10=-167/1054, 8-10=0/1054, 7-8=-186/1054  
WEBS 2-10=0/554, 6-8=0/540, 3-5=-1112/171

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 10-9-12, Exterior (2) 10-9-12 to 13-10-6, Interior (1) 13-10-6 to 21-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=6.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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.
- Ceiling dead load (5.0 psf) on member(s). 2-3, 5-6, 3-5
- Bottom chord live load (20.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 8-10
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 1. This connection is for uplift only and does not consider lateral forces.
- 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.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

**LOAD CASE(S)** Standard



June 22, 2023

**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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



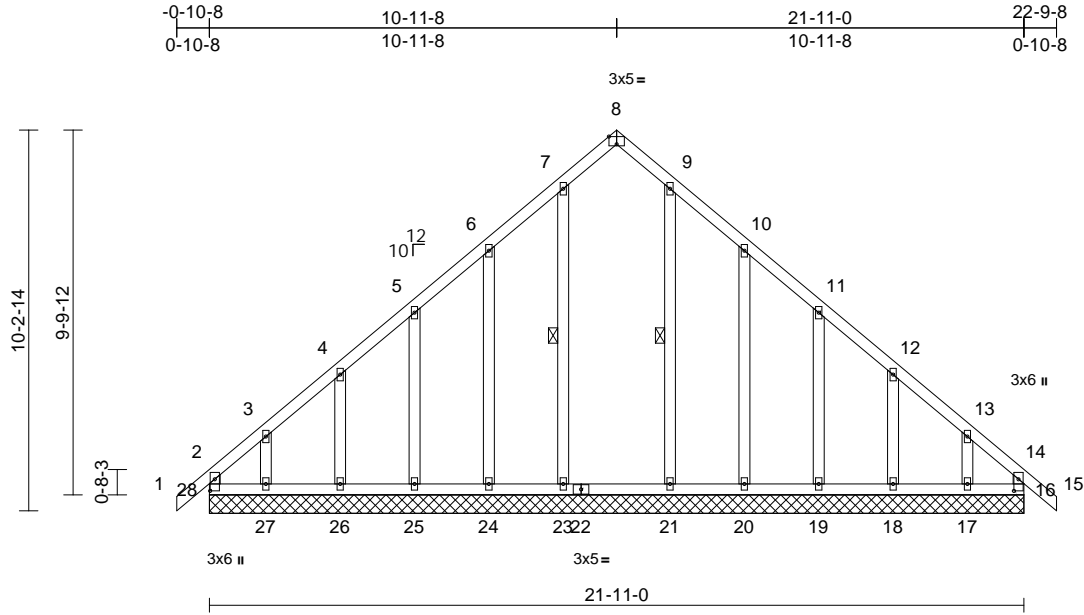
818 Soundside Road  
Edenton, NC 27932

Job Q015549-R	Truss R5G	Truss Type Common Supported Gable	Qty 1	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118175
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:57  
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Page: 1



Scale = 1:62

Plate Offsets (X, Y): [8:0-2-8,Edge], [14:0-3-12,0-1-8], [28:0-3-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	6.9/10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	16	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 150 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 *Except* 23-7,21-9:2x4 SP No.2

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.
WEBS	1 Row at midpt 7-23, 9-21

REACTIONS	(size)
	16=21-11-0, 17=21-11-0, 18=21-11-0, 19=21-11-0, 20=21-11-0, 21=21-11-0, 23=21-11-0, 24=21-11-0, 25=21-11-0, 26=21-11-0, 27=21-11-0, 28=21-11-0
Max Horiz	28=261 (LC 12)
Max Uplift	16=56 (LC 13), 17=189 (LC 15), 18=76 (LC 15), 19=88 (LC 15), 20=119 (LC 15), 23=9 (LC 14), 24=115 (LC 14), 25=89 (LC 14), 26=75 (LC 14), 27=194 (LC 14), 28=79 (LC 12)
Max Grav	16=254 (LC 15), 17=165 (LC 27), 18=177 (LC 27), 19=179 (LC 27), 20=162 (LC 27), 21=229 (LC 27), 23=245 (LC 26), 24=157 (LC 26), 25=180 (LC 26), 26=176 (LC 26), 27=171 (LC 26), 28=267 (LC 14)

FORCES	(lb) - Maximum Compression/Maximum Tension

TOP CHORD	
	1-2=0/39, 2-3=353/234, 3-4=244/156, 4-5=164/102, 5-6=117/72, 6-7=100/86, 7-8=99/86, 8-9=99/86, 9-10=86/70, 10-11=101/48, 11-12=150/91, 12-13=231/154, 13-14=337/241, 14-15=0/39, 14-16=209/149, 2-28=218/144
BOT CHORD	
	27-28=200/274, 26-27=200/274, 25-26=200/274, 24-25=200/274, 23-24=200/274, 21-23=200/274, 20-21=200/274, 19-20=200/274, 18-19=200/274, 17-18=200/274, 16-17=200/274
WEBS	
	7-23=140/40, 9-21=124/28, 6-24=167/137, 5-25=139/111, 4-26=142/109, 3-27=174/158, 10-20=167/141, 11-19=139/110, 12-18=143/110, 13-17=175/155

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 10-11-8, Corner (3) 10-11-8 to 13-11-8, Exterior (2) 13-11-8 to 22-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=6.9 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



June 22, 2023

Continued on page 3

**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	Truss	Truss Type	Qty	Ply	John-Jennifer Miceli WI	I59118175
Q015549-R	R5G	Common Supported Gable	1	1	Job Reference (optional)	

Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:57  
 ID:Hrt?\_Em2gK0S5DyENb6jiDzHxTR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 28, 56 lb uplift at joint 16, 9 lb uplift at joint 23, 115 lb uplift at joint 24, 89 lb uplift at joint 25, 75 lb uplift at joint 26, 194 lb uplift at joint 27, 119 lb uplift at joint 20, 88 lb uplift at joint 19, 76 lb uplift at joint 18 and 189 lb uplift at joint 17.

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.

**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



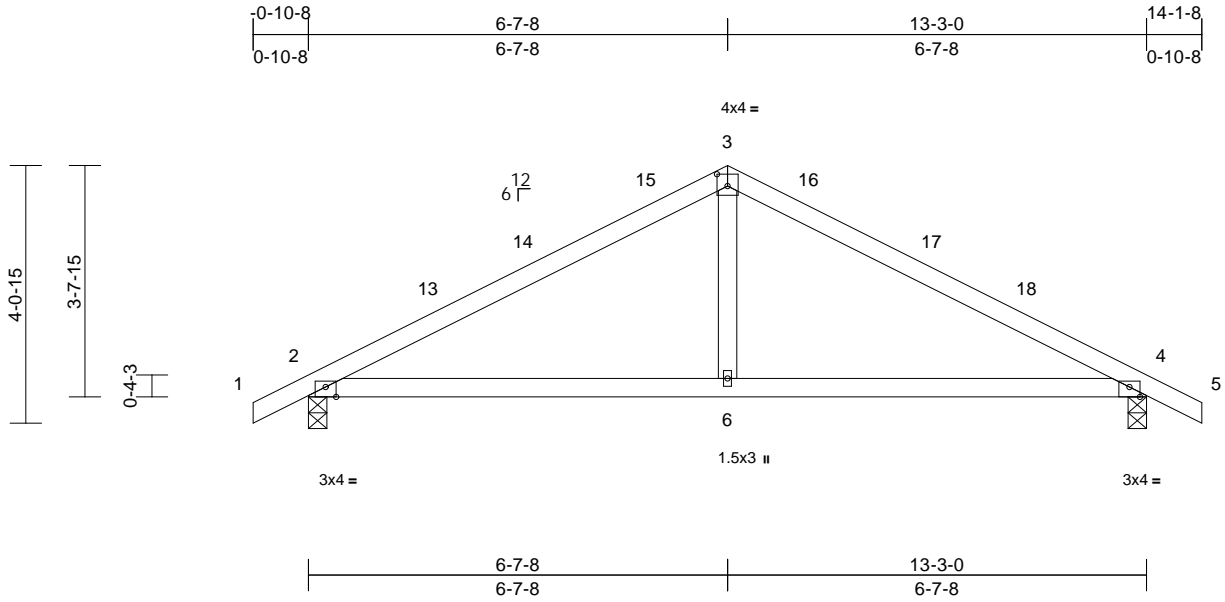
818 Soundside Road  
 Edenton, NC 27932

Job Q015549-R	Truss R6	Truss Type Common	Qty 5	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118176
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:57  
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Page: 1



Scale = 1:36.4  
Plate Offsets (X, Y): [2:0-2-0,Edge], [3:0-2-0,0-2-4], [4:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	Vert(LL)	0.10	6-12	>999	240	MT20	244/190
Snow (Pf/Pg)	6.9/10.0	Lumber DOL	1.25	BC	Vert(CT)	-0.13	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH							
BCDL	10.0									Weight: 50 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 5-9-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 8-2-9 oc bracing.

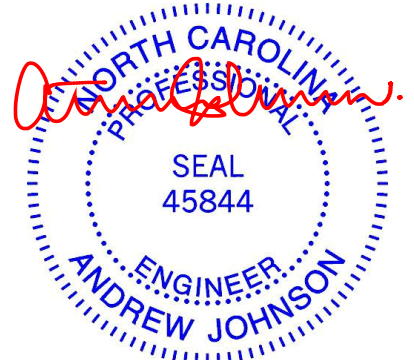
**REACTIONS** (size) 2=0-3-8, 4=0-3-8  
Max Horiz 2=63 (LC 16)  
Max Uplift 2=-126 (LC 13), 4=-126 (LC 12)  
Max Grav 2=583 (LC 2), 4=582 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/23, 2-3=-756/607, 3-4=-756/607, 4-5=0/23  
BOT CHORD 2-6=-452/608, 4-6=-452/608  
WEBS 3-6=-322/314

- 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 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 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=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-7-8, Exterior (2) 6-7-8 to 9-7-8, Interior (1) 9-7-8 to 14-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=6.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10



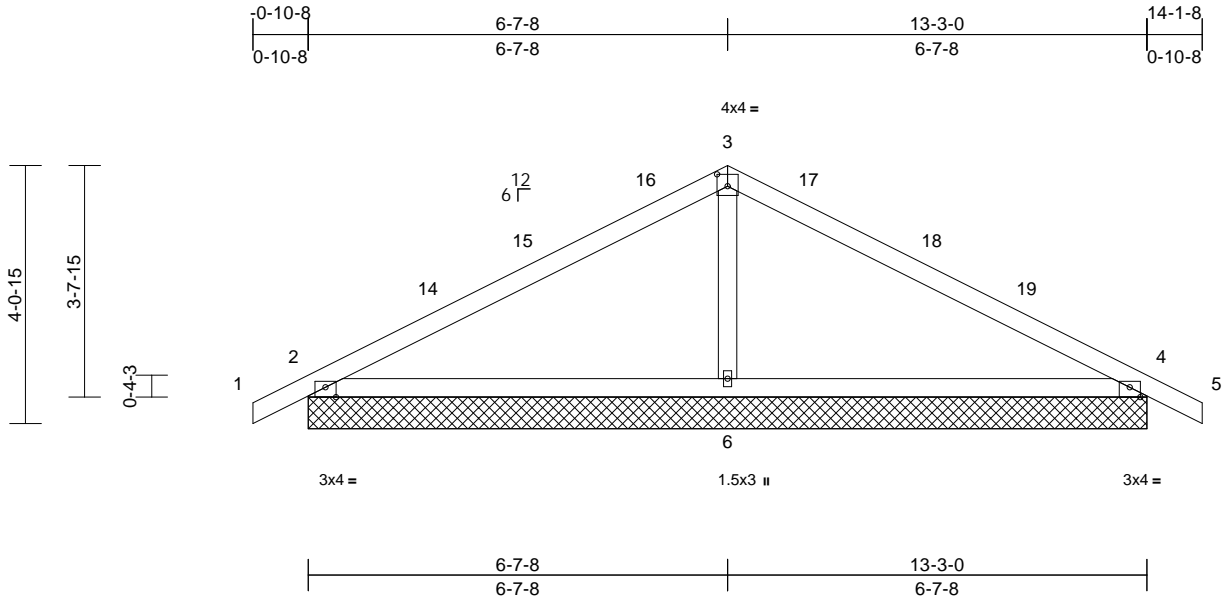
June 22, 2023

Job Q015549-R	Truss R6B	Truss Type Common Supported Gable	Qty 1	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118177
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:57  
ID:l2RNCZngRe8JjNXQwldyFRzHxTQ-RIC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:36.4  
Plate Offsets (X, Y): [2:0-2-0,Edge], [3:0-2-0,0-2-4], [4:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	6.9/10.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
										Weight: 50 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.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=13-3-0, 4=13-3-0, 6=13-3-0, 7=13-3-0, 11=13-3-0  
Max Horiz 2=63 (LC 16), 7=63 (LC 16)  
Max Uplift 2=-92 (LC 16), 4=-104 (LC 17), 6=-33 (LC 16), 7=-92 (LC 16), 11=-104 (LC 17)  
Max Grav 2=339 (LC 2), 4=339 (LC 2), 6=487 (LC 2), 7=339 (LC 2), 11=339 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/23, 2-3=-224/108, 3-4=-224/113, 4-5=0/23  
BOT CHORD 2-6=-36/132, 4-6=-18/132  
WEBS 3-6=-259/94

**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=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-7-8, Exterior (2) 6-7-8 to 9-7-8, Interior (1) 9-7-8 to 14-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=6.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully 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 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 20 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 0-0-0 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.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 4, and 6. This connection is for uplift only and does not consider lateral forces.
- 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



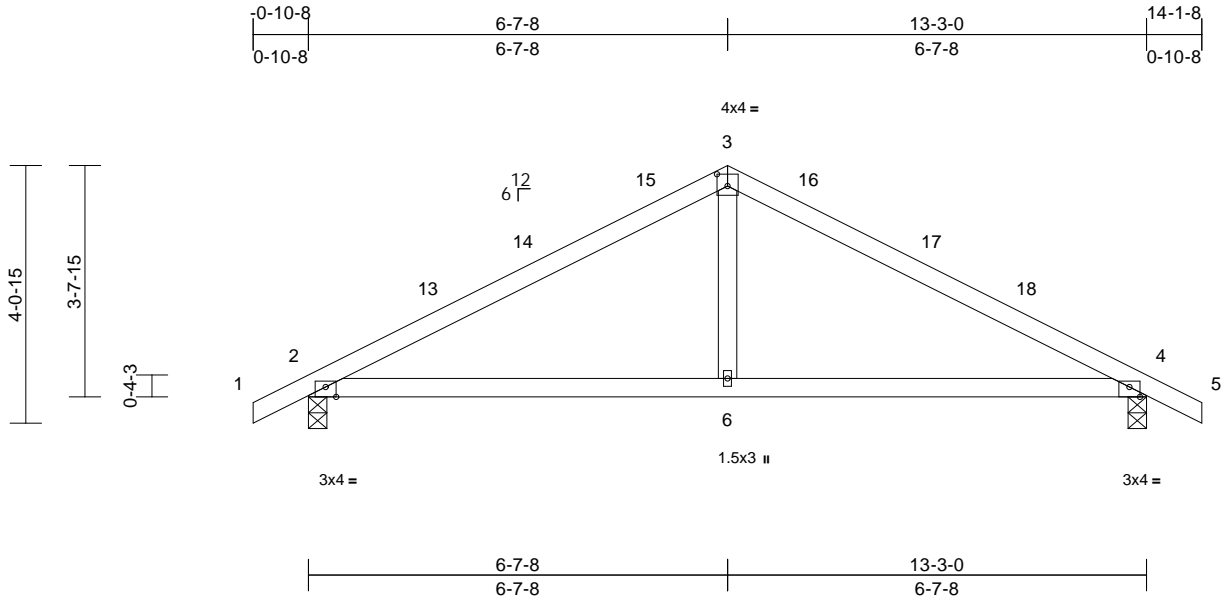
June 22, 2023

Job Q015549-R	Truss R6C	Truss Type Common	Qty 1	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118178
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:57  
ID:l2RNCZngRe8JjNXQwldyFRzHxTQ-RIC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:36.4  
Plate Offsets (X, Y): [2:0-2-0,Edge], [3:0-2-0,0-2-4], [4:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.07	6-9	>999	240	MT20	244/190
Snow (Pf/Pg)	6.9/10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.13	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 50 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 5-9-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-3-8, 4=0-3-8  
Max Horiz 2=63 (LC 16)  
Max Uplift 2=-108 (LC 16), 4=-108 (LC 17)  
Max Grav 2=583 (LC 2), 4=582 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/23, 2-3=-756/168, 3-4=-756/168, 4-5=0/23  
BOT CHORD 2-6=-51/608, 4-6=-51/608  
WEBS 3-6=0/314

- 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 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 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=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-7-8, Exterior (2) 6-7-8 to 9-7-8, Interior (1) 9-7-8 to 14-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=6.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10



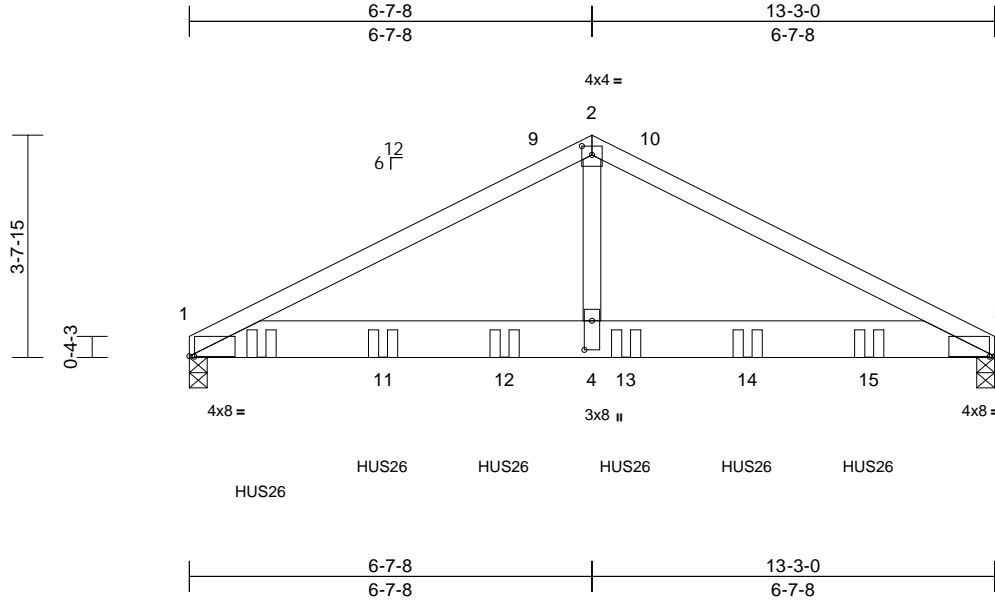
June 22, 2023

Job Q015549-R	Truss R6X	Truss Type Common Girder	Qty 1	Ply 2	John-Jennifer Miceli WI Job Reference (optional)	I59118179
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:58  
ID:ZCoeSdsR0UuTRI\_aHZkMUizHxTK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCdoi7J4zJC7f

Page: 1



Scale = 1:37.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.06	4-6	>999	240	MT20	244/190
Snow (Pf/Pg)	6.9/10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.12	4-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.02	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 135 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x8 SP 2400F 2.0E  
WEBS 2x4 SP No.3

**BRACING**

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

**REACTIONS**

(size) 1=0-3-8, 3=0-3-8  
Max Horiz 1=-54 (LC 13)  
Max Uplift 1=-650 (LC 12), 3=-519 (LC 13)  
Max Grav 1=3647 (LC 25), 3=3150 (LC 26)

**FORCES**

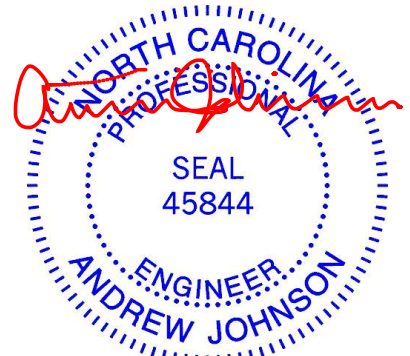
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-4867/821, 2-3=-4869/823  
BOT CHORD 1-4=-687/4339, 3-4=-687/4339  
WEBS 2-4=-599/4021

**NOTES**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=6.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 20 degree rotation about its center.
- 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.
- Two RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3. This connection is for uplift only and does not consider lateral forces.
- 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.
- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-2-4 from the left end to 9-2-4 to connect truss(es) to back face of bottom chord.

- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 11-2-4 from the left end to connect truss(es) to back face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - Double installations of RT7A require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in single ply truss.
- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-2=-34, 2-3=-34, 1-3=-20  
Concentrated Loads (lb)  
Vert: 6=-673 (B), 11=-673 (B), 12=-634 (B), 13=-634 (B), 14=-634 (B), 15=-634 (B)



June 22, 2023

**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

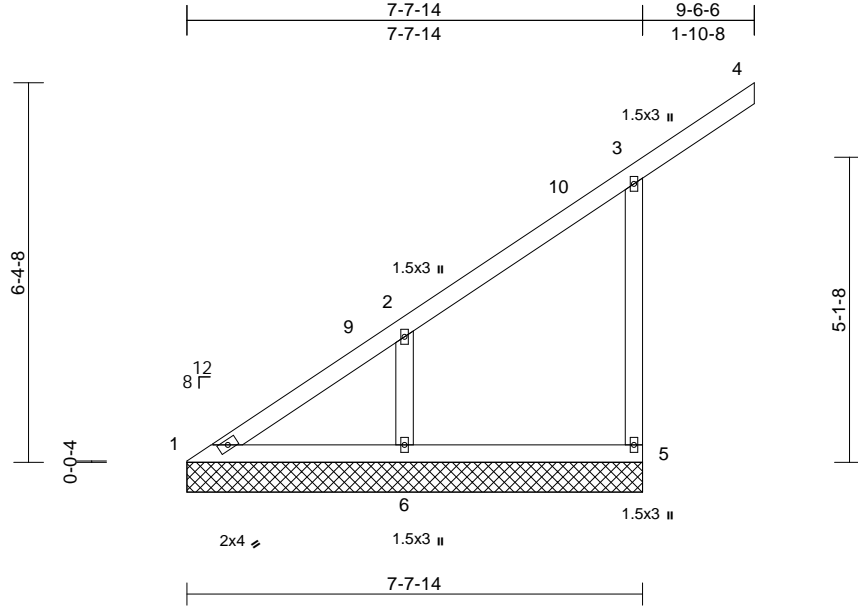


Job Q015549-R	Truss V1	Truss Type Valley	Qty 1	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118180
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MITek Industries, Inc. Thu Jun 22 09:39:58  
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Page: 1



Scale = 1:38.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	6.9/10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 37 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**

(size)	1=7-7-14, 5=7-7-14, 6=7-7-14
Max Horiz	1=232 (LC 14)
Max Uplift	5=-160 (LC 14), 6=-120 (LC 14)
Max Grav	1=140 (LC 28), 5=284 (LC 26), 6=347 (LC 26)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-253/211, 2-3=-180/122, 3-4=-67/0, 3-5=-261/276
BOT CHORD	1-6=-93/147, 5-6=0/0
WEBS	2-6=-311/160

**NOTES**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 9-6-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=6.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 20 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 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 160 lb uplift at joint 5 and 120 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



June 22, 2023

**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



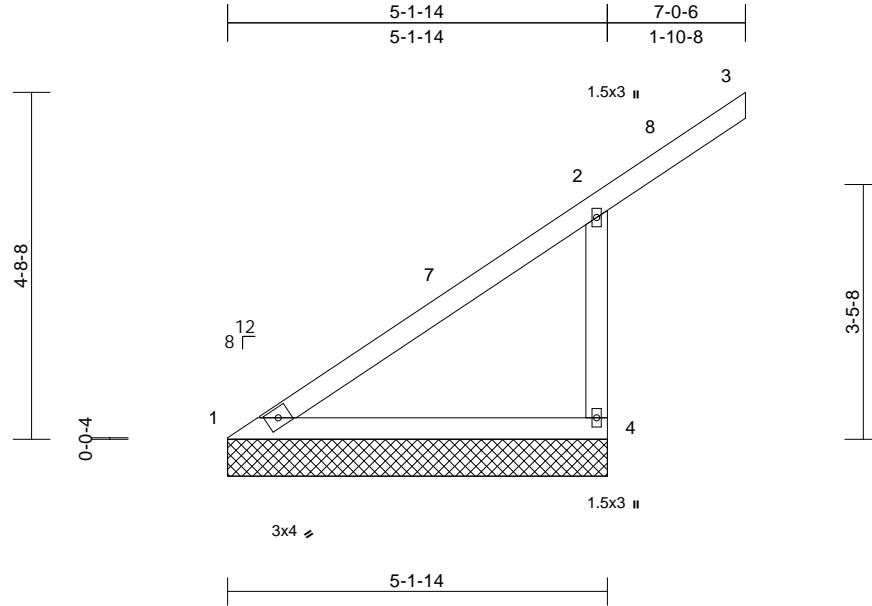
818 Soundside Road  
Edenton, NC 27932

Job Q015549-R	Truss V2	Truss Type Valley	Qty 1	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118181
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:59  
ID:l2RNCZngRe8JjNXQwldyFRzHxTQ-RIC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f

Page: 1



<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	6.9/10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP							Weight: 24 lb	FT = 20%
BCDL	10.0											

**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 5-2-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 1=5-1-14, 4=5-1-14  
Max Horiz 1=160 (LC 14)  
Max Uplift 4=-157 (LC 14)  
Max Grav 1=176 (LC 2), 4=355 (LC 26)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-248/143, 2-3=-67/0, 2-4=-299/295  
BOT CHORD 1-4=-96/268

- 5) Plates checked for a plus or minus 20 degree rotation about its center.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Gable studs spaced at 4-0-0 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 157 lb uplift at joint 4.
  - 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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 7-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) 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.
  - 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=6.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.



June 22, 2023

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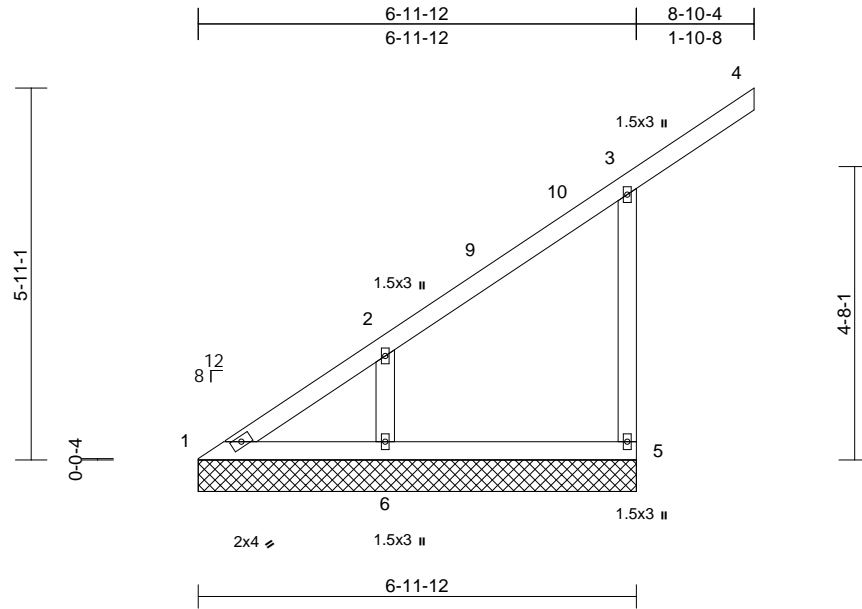
818 Soundside Road  
Edenton, NC 27932

Job Q015549-R	Truss V3	Truss Type Valley	Qty 1	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118182
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MITek Industries, Inc. Thu Jun 22 09:39:59  
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Page: 1



Scale = 1:36.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	6.9/10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 34 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** (size)

1=6-11-12, 5=6-11-12, 6=6-11-12
Max Horiz 1=192 (LC 14)
Max Uplift 5=-131 (LC 11), 6=-117 (LC 14)
Max Grav 1=111 (LC 28), 5=290 (LC 26), 6=312 (LC 26)

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

TOP CHORD	1-2=-246/201, 2-3=-183/125, 3-4=-67/0, 3-5=-266/281
BOT CHORD	1-6=-83/109, 5-6=0/0
WEBS	2-6=-299/163

**NOTES**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-6 to 3-0-2, Interior (1) 3-0-2 to 8-10-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=6.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.
- 5) Plates checked for a plus or minus 20 degree rotation about its center.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 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 131 lb uplift at joint 5 and 117 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



June 22, 2023

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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



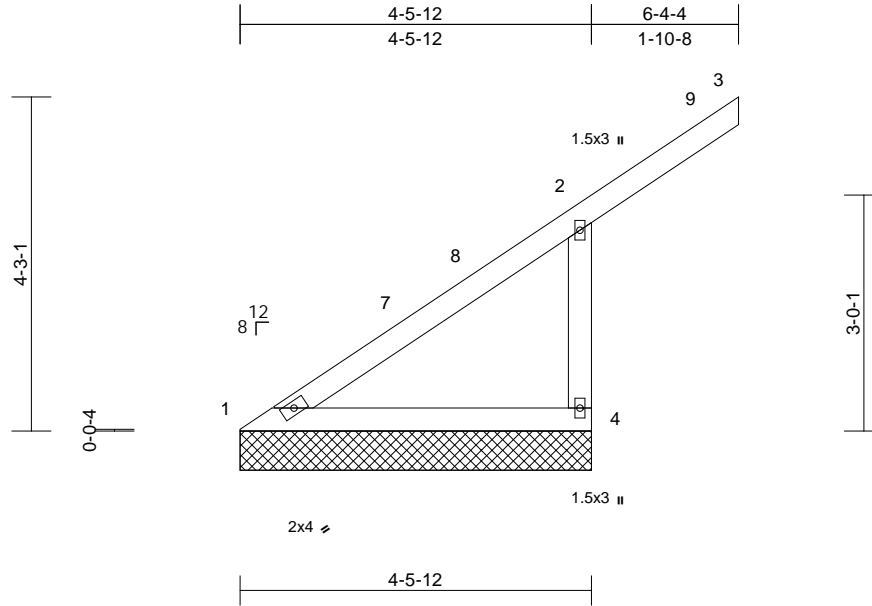
818 Soundside Road  
Edenton, NC 27932

Job Q015549-R	Truss V4	Truss Type Valley	Qty 1	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118183
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MITek Industries, Inc. Thu Jun 22 09:39:59  
ID:DE?IPvolCxGAKX6dU08BnezHxTP-RIC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f

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	1.25	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	6.9/10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0											
										Weight: 21 lb	FT = 20%	

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

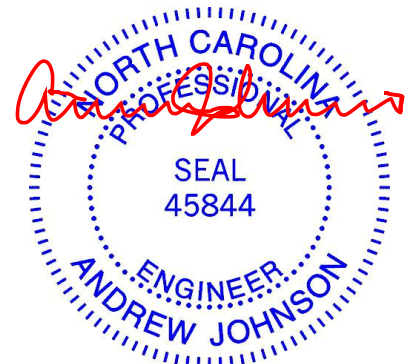
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 4-6-2 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 1=4-5-12, 4=4-5-12  
Max Horiz 1=147 (LC 14)  
Max Uplift 4=-161 (LC 14)  
Max Grav 1=145 (LC 2), 4=330 (LC 26)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-220/135, 2-3=-67/0, 2-4=-285/293  
BOT CHORD 1-4=-74/230

- 5) Plates checked for a plus or minus 20 degree rotation about its center.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Gable studs spaced at 4-0-0 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 161 lb uplift at joint 4.
  - 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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 6-4-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) 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.
  - 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=6.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 6.9 psf on overhangs non-concurrent with other live loads.



June 22, 2023

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ENGINEERING BY  
**TRENCO**  
A MITek Affiliate

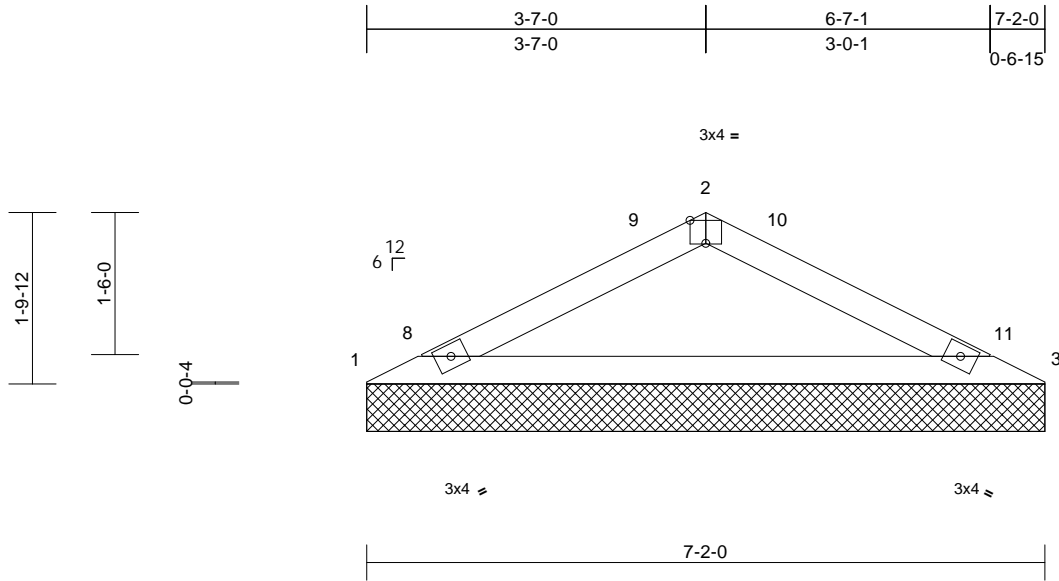
818 Soundside Road  
Edenton, NC 27932

Job Q015549-R	Truss V5	Truss Type Valley	Qty 1	Ply 1	John-Jennifer Miceli WI Job Reference (optional)	159118184
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Load Star, Lavonia, GA - 30553,

Run: 8.71 S May 19 2023 Print: 8.710 S May 19 2023 MiTek Industries, Inc. Thu Jun 22 09:39:59  
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Page: 1



Scale = 1:24.3  
Plate Offsets (X, Y): [2:0-2:0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	6.9/10.0	Lumber DOL	1.25	BC	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	Horiz(TL)	0.02	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP							
BCDL	10.0									Weight: 21 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.

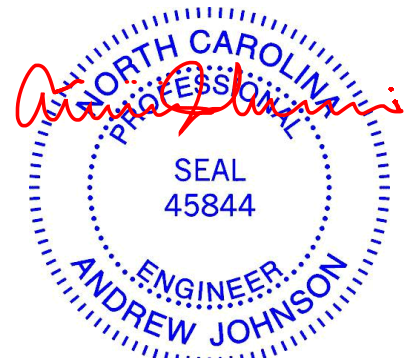
**REACTIONS** (size) 1=7-2-0, 3=7-2-0  
Max Horiz 1=28 (LC 16)  
Max Uplift 1=47 (LC 16), 3=47 (LC 17)  
Max Grav 1=287 (LC 2), 3=287 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-549/216, 2-3=-549/216  
BOT CHORD 1-3=-181/480

- Unbalanced snow loads have been considered for this design.
- Plates checked for a plus or minus 20 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 1 and 47 lb uplift at joint 3.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**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=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-8 to 3-0-8, Interior (1) 3-0-8 to 3-7-8, Exterior (2) 3-7-8 to 6-7-8, Interior (1) 6-7-8 to 7-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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=1.25 Plate DOL=1.25); Pg=10.0 psf (ground snow); Pf=6.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10



June 22, 2023

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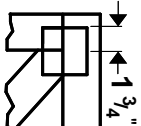
ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

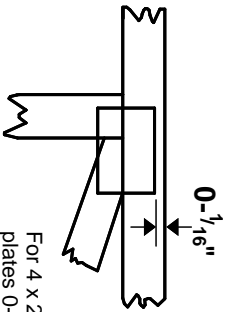


# Symbols

## 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



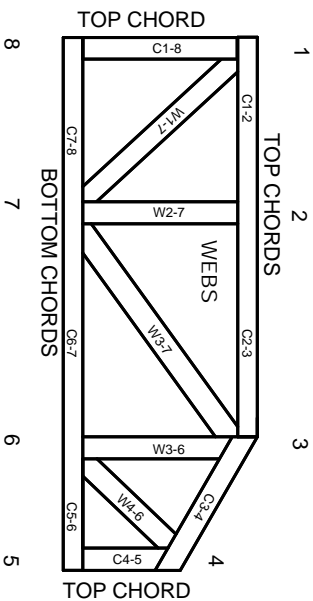
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

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

# Numbering System

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



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TFP 1 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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.