

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: CCP  
Mattamy - Glades

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Apex,NC.

Pages or sheets covered by this seal: I57322060 thru I57322082

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

North Carolina COA: C-0844



March 22, 2023

Johnson, Andrew

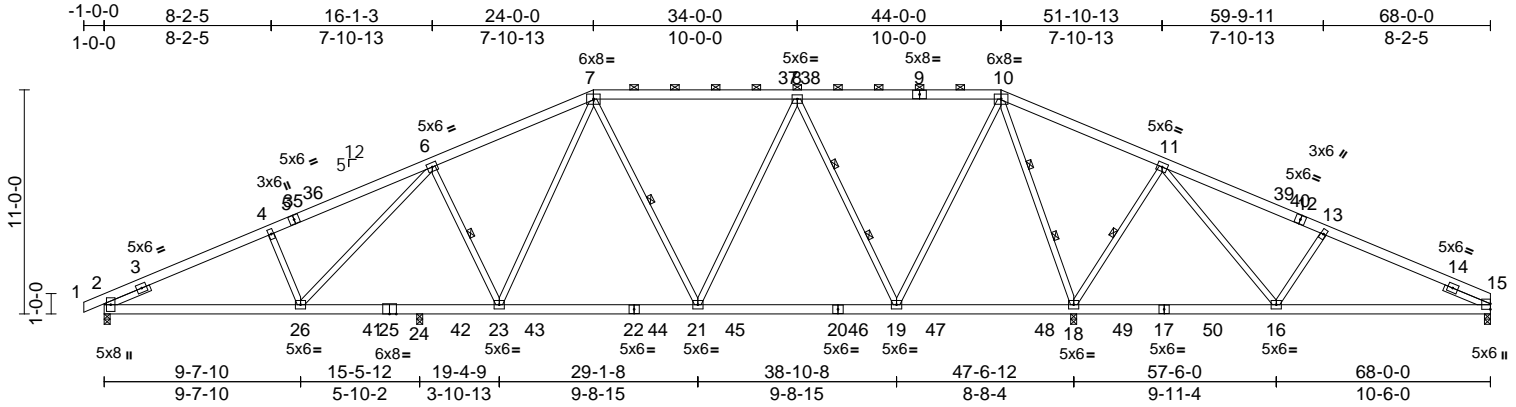
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), 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 CCP	Truss A01	Truss Type Piggyback Base	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional)	157322060
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:31  
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Page: 1



Scale = 1:113

Plate Offsets (X, Y): [2:0-4-9:0-1-6]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.20	21-23	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.37	21-23	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.06	18	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 499 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x6 SP No.2 \*Except\* 7-9:2x6 SP DSS  
BOT CHORD 2x6 SP No.2 \*Except\* 25-22:2x6 SP DSS  
WEBS 2x4 SP No.3 \*Except\* 18-10:2x4 SP No.1  
SLIDER Left 2x4 SP No.3 -- 2-5-0, Right 2x4 SP No.3 -- 2-5-0

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins, except 2-0-0 oc purlins (5-9-2 max.): 7-10.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 6-23, 7-21, 11-18  
WEBS 2 Rows at 1/3 pts 8-19, 10-18

**REACTIONS** (size) 2=0-3-8, 15=0-3-8, 18=0-3-8, (req. 0-3-15), 24=0-3-8  
Max Horiz 2=142 (LC 16)  
Max Uplift 2=-110 (LC 16), 15=-66 (LC 17), 18=-55 (LC 17), 24=-13 (LC 16)  
Max Grav 2=1449 (LC 54), 15=522 (LC 55), 18=3352 (LC 45), 24=669 (LC 45)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/38, 2-4=1419/346, 4-6=2365/386, 6-7=1894/366, 7-9=1024/290, 9-10=855/203, 10-11=11789, 11-12=456/369, 12-13=456/369  
BOT CHORD 2-26=-250/2230, 24-26=-165/1912, 23-24=-165/1912, 21-23=-57/1580, 19-21=-1/1490, 18-19=1286/176, 16-18=-510/128, 15-16=-96/542  
WEBS 4-26=-384/185, 6-26=-55/333, 6-23=-888/239, 7-23=-83/637, 7-21=-451/201, 8-21=-8/800, 8-19=-1513/229, 10-19=-100/1800, 10-18=-2306/249, 11-18=-1142/217, 11-16=-637/96, 10-16=-499/199

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33  
3) \*\* TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=varies (min. roof snow=15.8 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface  
4) Roof design snow load has been reduced to account for slope.  
5) Unbalanced snow loads have been considered for this design.  
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.  
7) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.  
8) Provide adequate drainage to prevent water ponding.

9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.  
11) WARNING: Required bearing size at joint(s) 18 greater than input bearing size.  
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 2, 55 lb uplift at joint 18, 66 lb uplift at joint 15 and 13 lb uplift at joint 24.  
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.  
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  
1) Dead + Snow (balanced); Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)

March 22, 2023

Continued on page 2

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

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



818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss A01	Truss Type Piggyback Base	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional) I57322060
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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ID:BXXCExml4UWKeCxSeLVy2TzZ3G0-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?fi

Page: 2

Vert: 1-7=-52, 7-10=-60, 10-15=-52, 27-31=-20

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ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

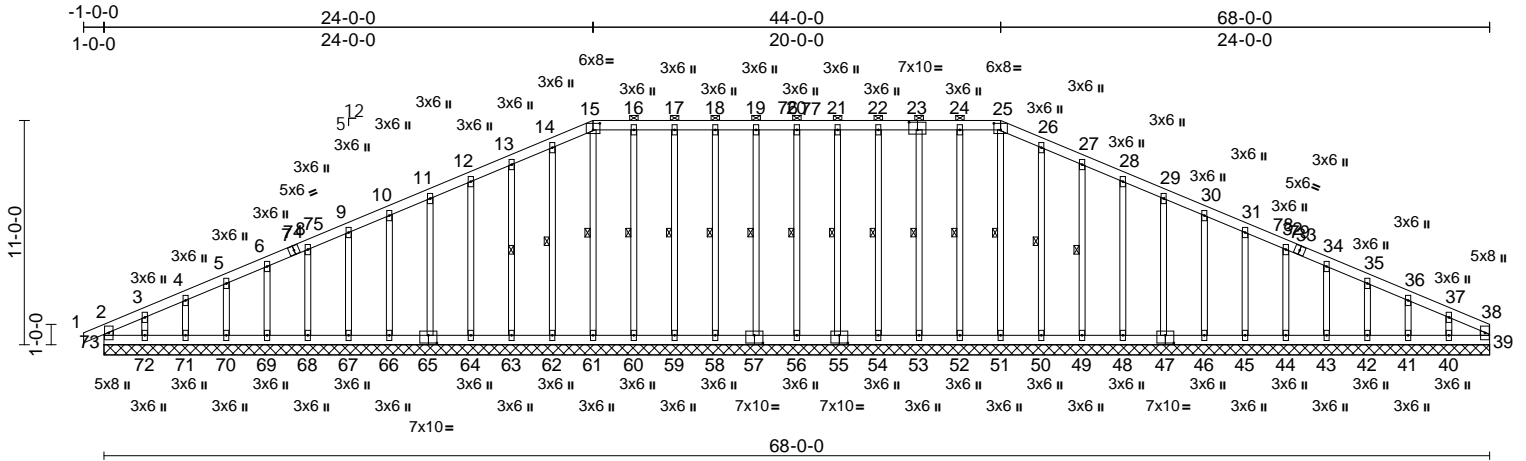
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss A01G	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional)	I57322061
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



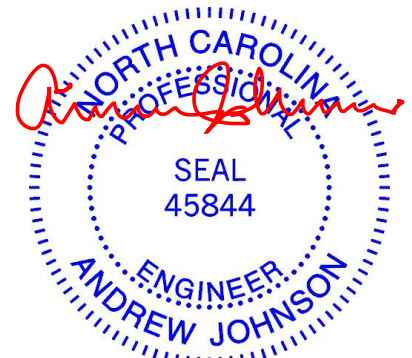
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Plate Offsets (X, Y): [15:0-4-0,0-3-13], [23:0-5-0,0-4-8], [25:0-4-0,0-3-13], [47:0-5-0,0-4-8], [55:0-5-0,0-4-8], [57:0-5-0,0-4-8], [65:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	39	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 664 lb	FT = 20%

LUMBER		Max Uplift		TOP CHORD	
TOP CHORD	2x6 SP No.2	40=80 (LC 17), 41=11 (LC 17), 42=26 (LC 17), 43=22 (LC 17), 44=23 (LC 17), 45=23 (LC 17), 46=24 (LC 17), 47=22 (LC 17), 48=23 (LC 17), 49=27 (LC 17), 50=14 (LC 17), 52=5 (LC 13), 53=15 (LC 12), 54=13 (LC 13), 55=13 (LC 12), 56=11 (LC 12), 57=13 (LC 13), 58=14 (LC 12), 59=15 (LC 13), 60=4 (LC 12), 62=16 (LC 16), 63=26 (LC 16), 64=23 (LC 16), 65=22 (LC 16), 66=24 (LC 16), 67=23 (LC 16), 68=23 (LC 16), 69=22 (LC 16), 70=26 (LC 16), 71=8 (LC 16), 72=98 (LC 16), 73=10 (LC 17)		2-73=175/24, 1-2=0/47, 2-3=177/55, 3-4=135/60, 4-5=111/68, 5-6=90/76, 6-8=71/92, 8-9=65/107, 9-10=51/123, 10-11=58/138, 11-12=70/157, 12-13=80/187, 13-14=91/218, 14-15=101/245, 15-16=91/239, 16-17=91/239, 17-18=91/239, 18-19=91/239, 19-20=92/239, 20-21=92/239, 21-22=91/239, 22-24=91/239, 24-25=91/238, 25-26=100/245, 26-27=91/218, 27-28=80/187, 28-29=69/157, 29-30=58/126, 30-31=47/96, 31-32=42/66, 32-34=34/42, 34-35=48/29, 35-36=63/23, 36-37=87/30, 37-38=123/44, 38-39=66/0	
BOT CHORD	2x6 SP No.2	39=94 (LC 33), 40=164 (LC 55), 41=160 (LC 2), 42=160 (LC 55), 43=160 (LC 2), 44=195 (LC 39), 45=226 (LC 39), 46=222 (LC 39), 47=223 (LC 39), 48=224 (LC 39), 49=225 (LC 39), 50=227 (LC 39), 51=158 (LC 38), 52=248 (LC 38), 53=243 (LC 38), 54=233 (LC 38), 55=239 (LC 38), 56=242 (LC 38), 57=239 (LC 38), 58=238 (LC 38), 59=243 (LC 38), 60=243 (LC 38), 61=157 (LC 38), 62=227 (LC 39), 63=225 (LC 39), 64=224 (LC 39), 65=223 (LC 39), 66=222 (LC 39), 67=226 (LC 39), 68=195 (LC 39), 69=160 (LC 2), 70=159 (LC 54), 71=167 (LC 2), 72=128 (LC 54), 73=201 (LC 22)			
WEBS	2x6 SP No.2				
OTHERS	2x4 SP No.3				
BRACING					
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 15-25.				
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.				
WEBS	1 Row at midpt 25-51, 24-52, 23-53, 22-54, 21-55, 20-56, 19-57, 18-58, 17-59, 16-60, 15-61, 14-62, 13-63, 26-50, 27-49				
REACTIONS (size)	39=68-0-0, 40=68-0-0, 41=68-0-0, 42=68-0-0, 43=68-0-0, 44=68-0-0, 45=68-0-0, 46=68-0-0, 47=68-0-0, 48=68-0-0, 49=68-0-0, 50=68-0-0, 51=68-0-0, 52=68-0-0, 53=68-0-0, 54=68-0-0, 55=68-0-0, 56=68-0-0, 57=68-0-0, 58=68-0-0, 59=68-0-0, 60=68-0-0, 61=68-0-0, 62=68-0-0, 63=68-0-0, 64=68-0-0, 65=68-0-0, 66=68-0-0, 67=68-0-0, 68=68-0-0, 69=68-0-0, 70=68-0-0, 71=68-0-0, 72=68-0-0, 73=68-0-0				
	Max Horiz 73=127 (LC 16)				

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



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Continued on page 2

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

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades	I57322061
CCP	A01G	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:34

Page: 2

ID: ?oCUXIPsimHMarokW6\_TzezZ3Hn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCoD7J4zJC?f

**BOT CHORD** 72-73=-38/108, 71-72=-38/108, 70-71=-38/108, 69-70=-38/108, 68-69=-38/108, 67-68=-38/108, 66-67=-38/108, 64-66=-38/108, 63-64=-37/107, 62-63=-37/107, 61-62=-37/107, 60-61=-37/107, 59-60=-37/107, 58-59=-37/107, 56-58=-37/107, 54-56=-37/107, 53-54=-37/107, 52-53=-38/108, 51-52=-38/108, 50-51=-38/108, 49-50=-38/108, 48-49=-38/108, 46-48=-38/108, 45-46=-38/108, 44-45=-38/108, 43-44=-38/108, 42-43=-38/108, 41-42=-38/108, 40-41=-38/108, 39-40=-38/108

**WEBS** 25-51=-118/0, 24-52=-209/29, 23-53=-203/41, 22-54=-195/38, 21-55=-199/38, 20-56=-200/38, 19-57=-199/38, 18-58=-199/38, 17-59=-203/41, 16-60=-203/28, 15-61=-117/0, 14-62=-187/43, 13-63=-186/59, 12-64=-183/55, 11-65=-183/54, 10-66=-183/55, 9-67=-186/54, 8-68=-155/54, 6-69=-120/54, 5-70=-119/55, 4-71=-125/53, 3-72=-94/86, 26-50=-187/43, 27-49=-186/59, 28-48=-183/55, 29-47=-183/54, 30-46=-183/55, 31-45=-186/54, 32-44=-155/54, 34-43=-120/54, 35-42=-120/55, 36-41=-120/51, 37-40=-121/78

- 13) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 14) \* 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.
- 15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 73, 5 lb uplift at joint 52, 15 lb uplift at joint 53, 13 lb uplift at joint 54, 13 lb uplift at joint 55, 11 lb uplift at joint 56, 13 lb uplift at joint 57, 14 lb uplift at joint 58, 15 lb uplift at joint 59, 4 lb uplift at joint 60, 16 lb uplift at joint 62, 26 lb uplift at joint 63, 23 lb uplift at joint 64, 22 lb uplift at joint 65, 24 lb uplift at joint 66, 23 lb uplift at joint 67, 23 lb uplift at joint 68, 22 lb uplift at joint 69, 26 lb uplift at joint 70, 8 lb uplift at joint 71, 98 lb uplift at joint 72, 14 lb uplift at joint 50, 27 lb uplift at joint 49, 23 lb uplift at joint 48, 22 lb uplift at joint 47, 24 lb uplift at joint 46, 23 lb uplift at joint 45, 23 lb uplift at joint 44, 22 lb uplift at joint 43, 26 lb uplift at joint 42, 11 lb uplift at joint 41 and 80 lb uplift at joint 40.
- 16) 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.
- 17) 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

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-2=-52, 2-15=-52, 15-25=-60, 25-38=-52, 39-73=-20

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 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) \*\* TCCL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 5) Roof design snow load has been reduced to account for slope.
- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 8) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 9) Provide adequate drainage to prevent water ponding.
- 10) Gable requires continuous bottom chord bearing.
- 11) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 12) Gable studs spaced at 2-0-0 oc.

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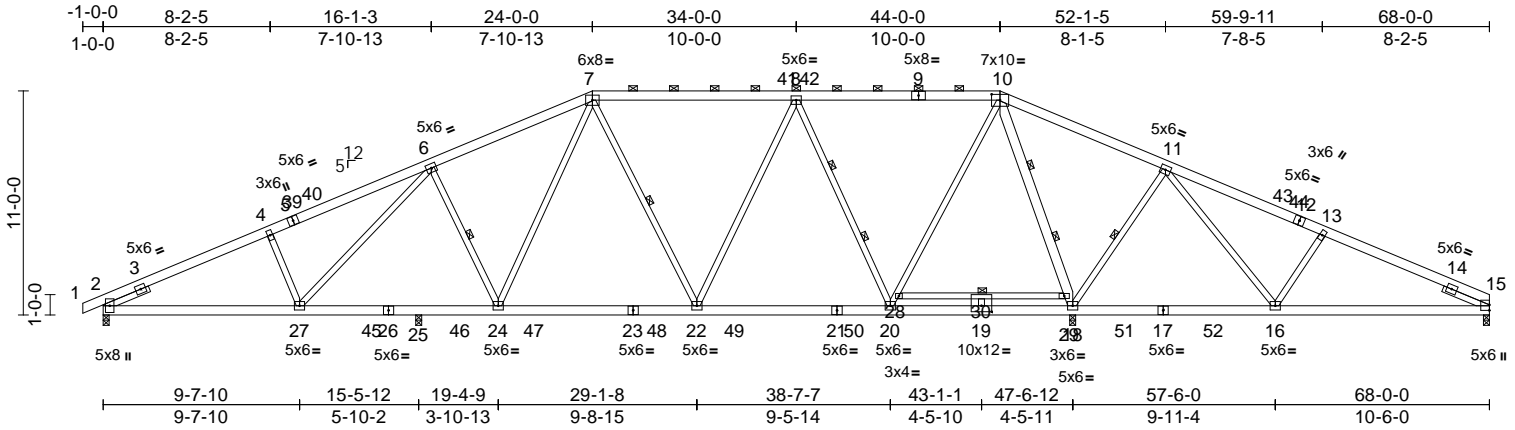
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss A01H	Truss Type Piggyback Base	Qty 7	Ply 1	Mattamy - Glades Job Reference (optional)	I57322062
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:38  
ID:BA03Dj9pqj7z3qc1rN?rjozZ3AM-RfC?PsB70Hq3NSgPqnL8w3uTxBGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:113

Plate Offsets (X, Y): [2:0-4-9,0-1-6], [10:0-5-0,0-3-7], [30:0-6-0,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.22	22-24	>999	240
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.40	22-24	>960	180
TCDL	10.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.07	18	n/a	n/a
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS						
BCDL	10.0									
										Weight: 520 lb FT = 20%

**LUMBER**  
TOP CHORD 2x6 SP No.2 \*Except\* 7-9:2x6 SP DSS  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3 \*Except\* 20-10:2x4 SP No.2, 18-10:2x6 SP No.2  
SLIDER Left 2x4 SP No.3 -- 2-5-0, Right 2x4 SP No.3 -- 2-5-0

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 4-1-8 oc purlins, except 2-0-0 oc purlins (5-9-13 max.): 7-10.  
BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.  
WEBS 1 Row at midpt 6-24, 7-22, 11-18, 28-29  
WEBS 2 Rows at 1/3 pts 8-20, 10-18

**REACTIONS** (size) 2=0-3-8, 15=0-3-8, 18=0-3-8, (req. 0-3-14), 25=0-3-8  
Max Horiz 2=142 (LC 16)  
Max Uplift 2=-113 (LC 16), 15=-69 (LC 17), 18=-50 (LC 17), 25=-7 (LC 16)  
Max Grav 2=1479 (LC 54), 15=492 (LC 55), 18=3302 (LC 39), 25=589 (LC 45)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/38, 2-4=-256/356, 4-6=-244/396, 7-9=-1920/374, 8-10=-1580/291, 11-13=-307/358, 13-15=-527/261  
BOT CHORD 2-27=-260/2300, 25-27=-170/1959, 24-25=-170/1958, 27-24=-59/1565, 20-22=0/1459, 19-20=-241/191, 18-19=-241/191, 16-18=-588/131, 15-16=-165/486

**WEBS** 4-27=-379/184, 6-27=-58/349, 6-24=-899/240, 7-24=-93/715, 7-22=-507/144, 8-22=-12/871, 8-20=-1540/225, 20-28=-105/1730, 10-28=-108/1791, 10-29=-2575/263, 18-29=-2601/263, 11-18=-1147/247, 11-16=-59/794, 13-16=-481/195, 28-30=-148/10, 29-30=-148/10, 19-30=-11/8

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33  
3) \*\* TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface  
4) Roof design snow load has been reduced to account for slope.  
5) Unbalanced snow loads have been considered for this design.  
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

7) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.  
8) Provide adequate drainage to prevent water ponding.  
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.  
11) WARNING: Required bearing size at joint(s) 18 greater than input bearing size.

March 22, 2023

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI 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 CCP	Truss A01H	Truss Type Piggyback Base	Qty 7	Ply 1	Mattamy - Glades Job Reference (optional) I57322062
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:38  
ID:bAO3Dj9pqi7z3qc1rN?rjozZ3AM-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCdoi7J4zJC?f

Page: 2

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 2, 50 lb uplift at joint 18, 69 lb uplift at joint 15 and 7 lb uplift at joint 25.
- 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.
- 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

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-7=-52, 7-10=-60, 10-15=-52, 31-35=-20

**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



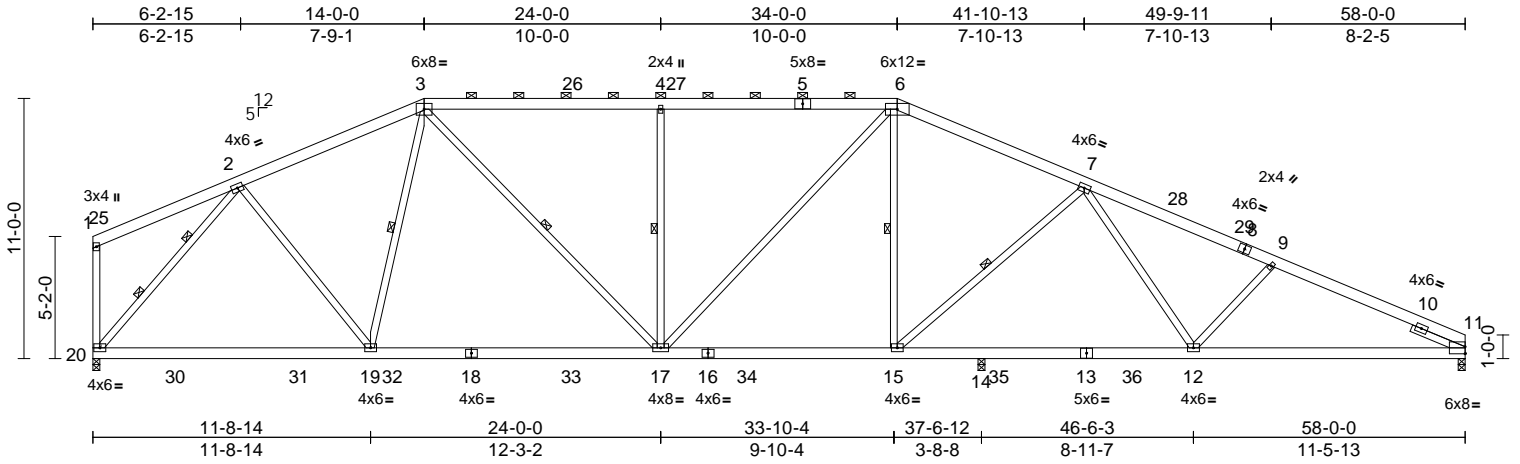
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss A02	Truss Type Piggyback Base	Qty 2	Ply 1	Mattamy - Glades Job Reference (optional)	157322063
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:39  
ID:UmDsmXpJtc299HJbZQUISPzZ39V-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:97.4

Plate Offsets (X, Y): [11:Edge,0-3-9]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.28	15-17	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.52	15-17	>860	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.11	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 437 lb	FT = 20%

**LUMBER**

TOP CHORD 2x6 SP No.2 \*Except\* 3-5:2x6 SP DSS  
 BOT CHORD 2x6 SP DSS  
 WEBS 2x4 SP No.3  
 SLIDER Right 2x4 SP No.3 -- 2-5-0

**BRACING**

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

WEBS 1 Row at midpt 3-19, 3-17, 4-17, 6-15, 7-15

WEBS 2 Rows at 1/3 pts 2-20

**REACTIONS** (size) 11=0-3-8, 14=0-3-8, 20=0-3-8  
 Max Horiz 20=138 (LC 21)  
 Max Uplift 11=122 (LC 17), 20=71 (LC 16)  
 Max Grav 11=1916 (LC 38), 14=833 (LC 44), 20=2304 (LC 44)

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

TOP CHORD 1-2=-125/110, 2-3=-2447/371, 3-4=-3042/473, 4-6=-3042/473, 6-7=-2699/465, 7-9=-3453/498, 9-11=-3688/521, 1-20=-210/85  
 BOT CHORD 19-20=-88/1654, 17-19=-65/2290, 15-17=-128/2452, 14-15=-295/2974, 12-14=-295/2974, 11-12=-400/3330  
 WEBS 2-20=-2557/337, 3-19=-524/128, 2-19=0/1024, 3-17=-119/1173, 4-17=-1167/213, 6-17=-65/860, 6-15=-138/305, 7-15=-1011/225, 7-12=0/392, 9-12=-347/183

**NOTES**

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- \*\* TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 20 and 122 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
 Uniform Loads (lb/ft)  
 Vert: 1-3=52, 3-6=60, 6-11=52, 20-21=20



March 22, 2023

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818 Soundside Road  
 Edenton, NC 27932

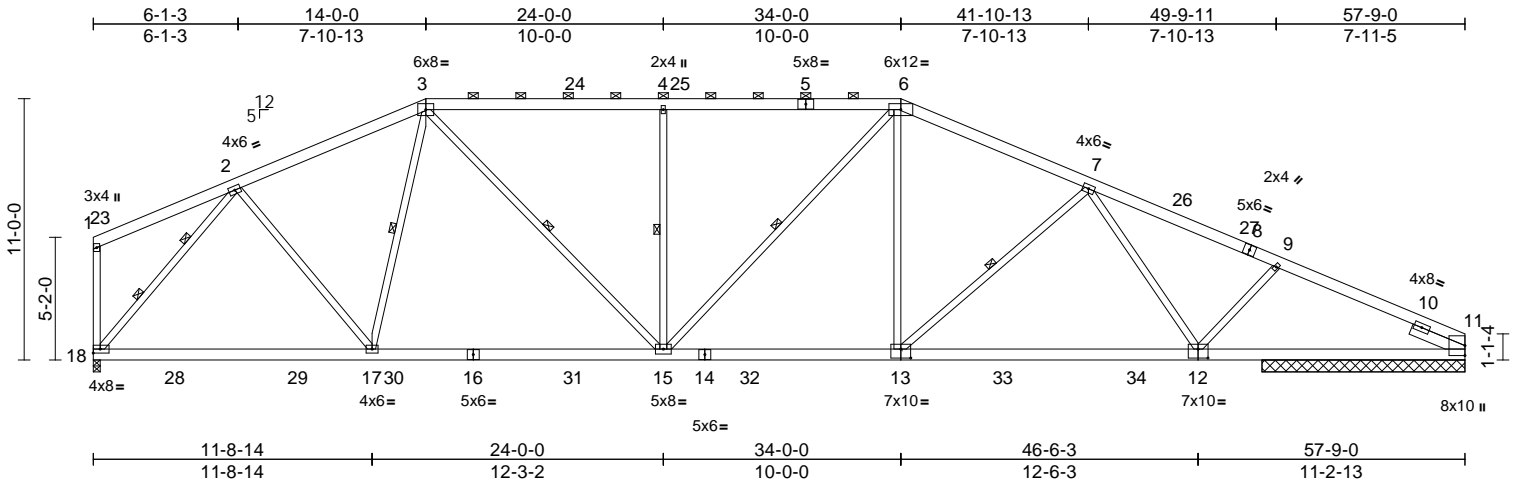


Job CCP	Truss A03	Truss Type Piggyback Base	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional)	157322064
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:40  
ID:rXc0WgVRhp6DtubMrBUijDzZ38d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:97

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.41	12-13	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.74	12-13	>939	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.18	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 438 lb	FT = 20%

**LUMBER**

TOP CHORD 2x6 SP DSS \*Except\* 1-3,6-8:2x6 SP No.2  
 BOT CHORD 2x6 SP DSS \*Except\* 16-14:2x6 SP No.2  
 WEBS 2x4 SP No.3 \*Except\* 18-2:2x4 SP No.2  
 SLIDER Right 2x6 SP No.2 -- 2-5-0

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-5-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-0 max.): 3-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-17, 3-15, 4-15, 6-15, 7-13  
 WEBS 2 Rows at 1/3 pts 2-18

**REACTIONS**

(size) 11=8-6-8, 18=0-3-8  
 Max Horiz 18=137 (LC 14)  
 Max Uplift 11=102 (LC 17), 18=46 (LC 16)  
 Max Grav 11=2373 (LC 38), 18=2589 (LC 44)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-120/109, 2-3=-2813/375, 3-4=-3627/482, 4-6=-3627/482, 6-7=-3741/483, 7-9=-4586/513, 9-11=-4720/532, 1-18=-198/81  
 BOT CHORD 17-18=-94/1869, 15-17=-74/2651, 11-15=-409/4231  
 WEBS 2-18=-2928/343, 3-17=-619/132, 2-17=0/1218, 3-15=-123/1457, 4-15=-1165/212, 6-15=-289/422, 6-13=-19/1124, 7-13=-1098/224, 7-12=0/463, 9-12=-178/191

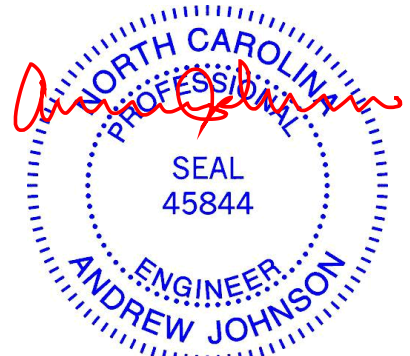
**NOTES**

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- \*\* TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 18 and 102 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
 Uniform Loads (lb/ft)  
 Vert: 1-3=-52, 3-6=-60, 6-11=-52, 18-19=-20



March 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



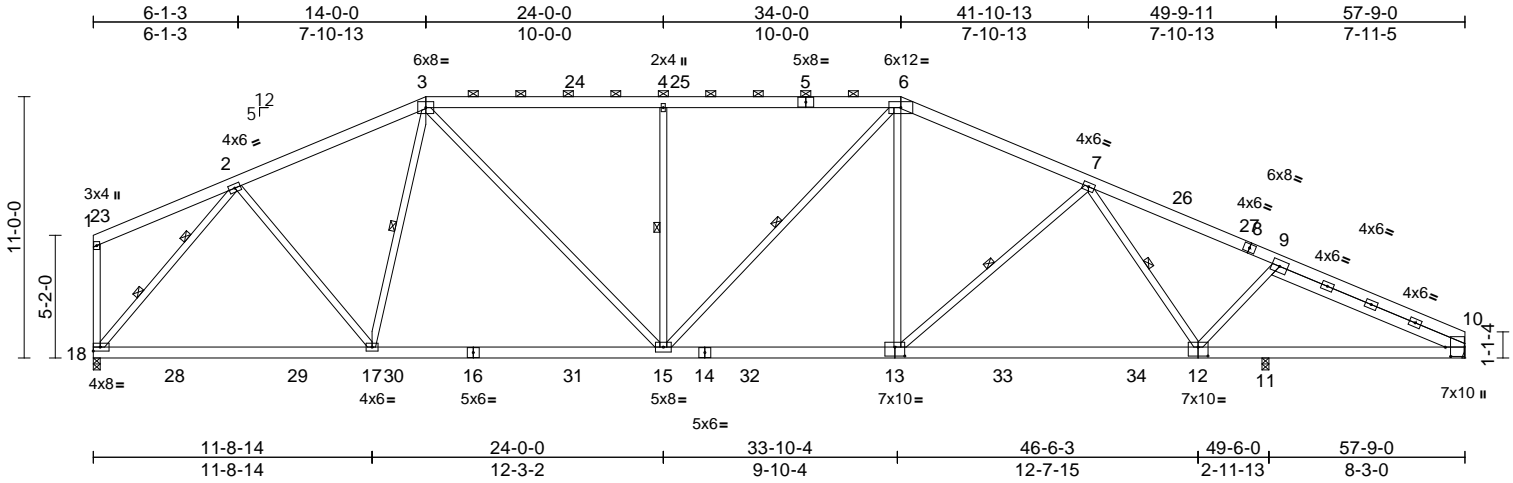
818 Soundside Road  
 Edenton, NC 27932

Job CCP	Truss A04	Truss Type Piggyback Base	Qty 2	Ply 1	Mattamy - Glades Job Reference (optional)	I57322065
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:41  
ID:cugKurCSoxYrSycio42jcfzZ37i-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:97

Plate Offsets (X, Y): [10:0-4-12,0-2-12], [12:0-5-0,0-4-8], [13:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.39	12-13	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.72	12-13	>819	180		
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.14	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 453 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x6 SP DSS \*Except\* 1-3,6-8:2x6 SP No.2  
BOT CHORD 2x6 SP DSS \*Except\* 16-14:2x6 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Right 2x6 SP No.2 -- 8-8-3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-4-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-10 max.): 3-6.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 3-17, 4-15, 6-15, 7-13, 7-12  
WEBS 2 Rows at 1/3 pts 2-18

**REACTIONS** (size) 10= Mechanical, 11=0-3-8, 18=0-3-8  
Max Horiz 18=137 (LC 14)  
Max Uplift 10=90 (LC 17), 11=14 (LC 17), 18=52 (LC 16)  
Max Grav 10=1861 (LC 44), 11=654 (LC 38), 18=2500 (LC 44)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=120/108, 2-3=2707/364, 3-4=3440/464, 4-6=3440/464, 6-7=3453/453, 7-9=3772/435, 9-10=865/146, 1-18=199/81  
BOT CHORD 17-18=87/1797, 15-17=63/2543, 11-15=331/3466, 10-11=331/3466  
WEBS 2-18=2814/333, 3-17=574/129, 2-17=0/1167, 3-15=112/1336, 4-15=1164/211, 6-15=194/518, 6-13=0/917, 7-13=717/190, 7-12=326/88, 9-12=194/173

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- \*\* TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, 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 52 lb uplift at joint 18, 90 lb uplift at joint 10 and 14 lb uplift at joint 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Vert: 1-3=-52, 3-6=-60, 6-10=-52, 18-19=-20

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

- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)



March 22, 2023

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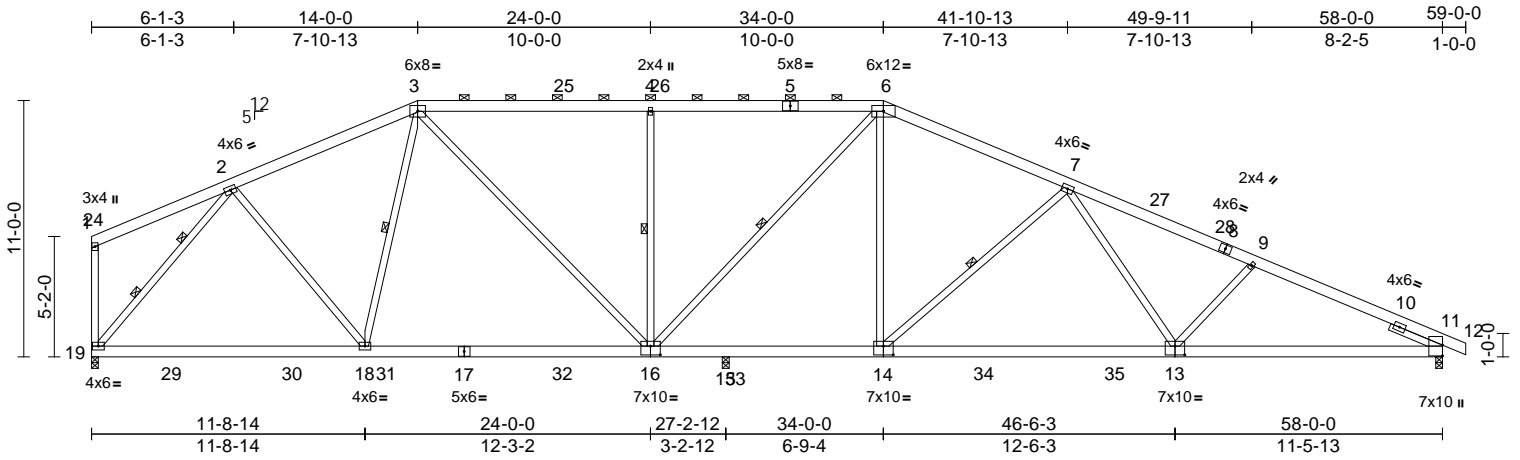
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss A05	Truss Type Piggyback Base	Qty 6	Ply 1	Mattamy - Glades Job Reference (optional)	157322066
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:42  
ID:opQmv2yLC\_L2uULdR59F7kzZ36k-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWRKDoi7J4zJC?f

Page: 1



Scale = 1:98.9

Plate Offsets (X, Y): [13:0-5-0,0-4-8], [14:0-5-0,0-4-8], [16:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.41	13-14	>897	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.74	13-14	>499	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.13	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
										Weight: 440 lb	FT = 20%	

LUMBER		
TOP CHORD	2x6 SP No.2 *Except* 3-5,8-12:2x6 SP DSS	2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
BOT CHORD	2x6 SP DSS	3) ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
WEBS	2x4 SP No.3	4) Roof design snow load has been reduced to account for slope.
SLIDER	Right 2x4 SP No.3 -- 2-5-0	5) Unbalanced snow loads have been considered for this design.
BRACING		6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
TOP CHORD	Structural wood sheathing directly applied or 3-1-7 oc purlins, except end verticals, and 2-0-0 oc purlins (2-6-7 max.): 3-6.	7) Provide adequate drainage to prevent water ponding.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
WEBS	1 Row at midpt 3-18, 4-16, 6-16, 7-14	9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
WEBS	2 Rows at 1/3 pts 2-19	10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 19, 110 lb uplift at joint 11 and 17 lb uplift at joint 15.
REACTIONS	(size) 11=0-3-8, 15=0-3-8, 19=0-3-8 Max Horiz 19=149 (LC 21) Max Uplift 11=110 (LC 17), 15=-17 (LC 17), 19=57 (LC 16) Max Grav 11=2073 (LC 39), 15=829 (LC 44), 19=2168 (LC 45)	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.
FORCES	(lb) - Maximum Compression/Maximum Tension	12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
TOP CHORD	1-2=-116/114, 2-3=-2262/323, 3-4=-2594/383, 4-6=-2594/383, 6-7=-2768/389, 7-9=-3851/439, 9-11=-4028/462, 11-12=0/38, 1-19=-195/81	
BOT CHORD	18-19=-36/1537, 15-18=-37/2515, 11-15=-324/3625	
WEBS	2-19=-2407/295, 3-18=-342/186, 2-18=0/952, 3-16=-92/810, 4-16=-1171/213, 6-16=-448/230, 6-14=0/899, 7-14=-1199/234, 7-13=0/613, 9-13=-285/186	

**NOTES**

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

**LOAD CASE(S)** Standard



March 22, 2023

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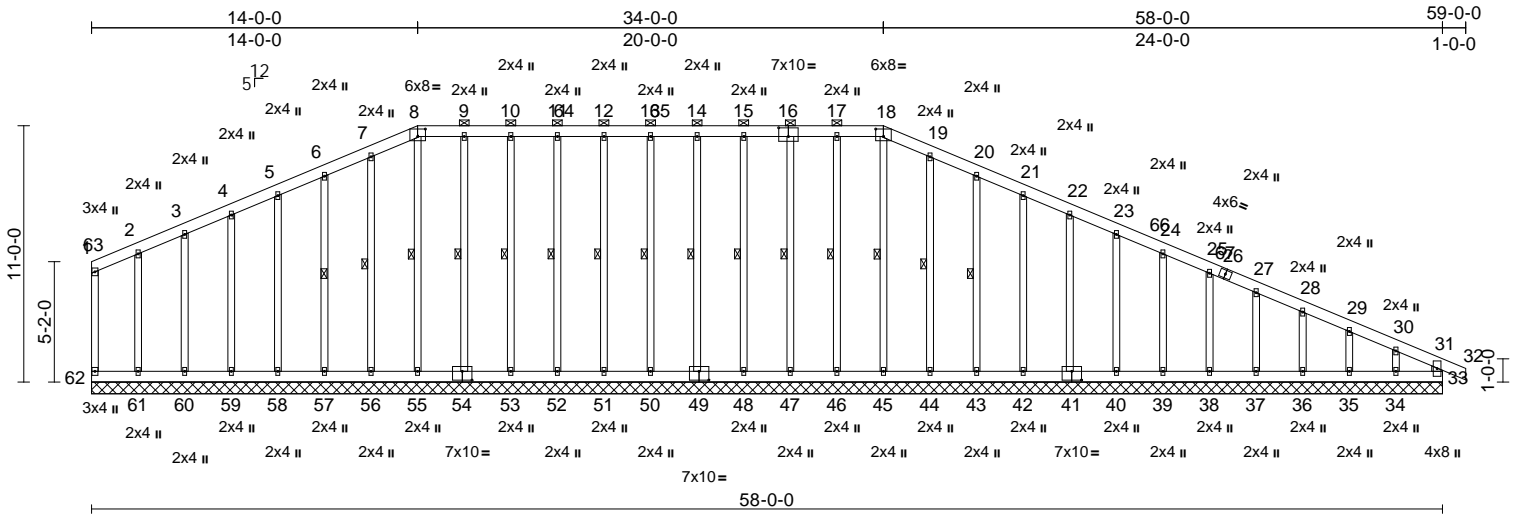
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss A05G	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional)	157322067
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:43  
 ID:Kiz5zymMQaoXRnzVsgszLszZ35h-RfC?PsB70Hq3NSgPqnl8w3uITXbGKwRcDoi7J4zJC?F

Page: 1



Scale = 1:98.9

Plate Offsets (X, Y): [8:0-4-0,0-3-13], [16:0-5-0,0-4-8], [18:0-4-0,0-3-13], [41:0-5-0,0-4-8], [49:0-5-0,0-4-8], [54:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	33	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 601 lb	FT = 20%

LUMBER		Max Uplift		TOP CHORD	
TOP CHORD	2x6 SP No.2	34=-102 (LC 17), 35=-7 (LC 17), 36=-26 (LC 17), 37=-22 (LC 17), 38=-23 (LC 17), 39=-22 (LC 17), 40=-25 (LC 17), 41=-22 (LC 17), 42=-23 (LC 17), 43=-26 (LC 17), 44=-17 (LC 17), 46=-9 (LC 12), 47=-15 (LC 13), 48=-13 (LC 12), 49=-12 (LC 13), 50=-12 (LC 12), 51=-13 (LC 13), 52=-13 (LC 13), 53=-14 (LC 13), 54=-8 (LC 12), 56=-16 (LC 16), 57=-26 (LC 16), 58=-23 (LC 16), 59=-22 (LC 16), 60=-26 (LC 16), 61=-22 (LC 16), 62=-14 (LC 17)		1-62=-73/59, 1-2=-69/83, 2-3=-76/107, 3-4=-87/138, 4-5=-97/168, 5-6=-108/198, 6-7=-119/229, 7-8=-128/256, 8-9=-117/249, 9-10=-117/249, 10-11=-117/249, 11-12=-117/249, 12-13=-117/249, 13-14=-117/249, 14-15=-117/249, 15-17=-117/249, 17-18=-116/248, 18-19=-128/255, 19-20=-119/229, 20-21=-107/198, 21-22=-97/167, 22-23=-85/137, 23-24=-75/107, 24-25=-69/77, 25-27=-84/52, 27-28=-103/62, 28-29=-121/73, 29-30=-143/82, 30-31=-187/99, 31-32=0/47, 31-33=-175/30	
BOT CHORD	2x6 SP No.2				
WEBS	2x4 SP No.3 *Except* 33-31:2x6 SP No.2				
OTHERS	2x4 SP No.3				
BRACING		Max Grav			
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-18.	33=202 (LC 22), 34=132 (LC 55), 35=166 (LC 2), 36=159 (LC 55), 37=160 (LC 2), 38=195 (LC 39), 39=226 (LC 39), 40=222 (LC 39), 41=223 (LC 39), 42=224 (LC 39), 43=225 (LC 39), 44=228 (LC 39), 45=161 (LC 38), 46=249 (LC 38), 47=243 (LC 38), 48=233 (LC 38), 49=239 (LC 38), 50=241 (LC 38), 51=239 (LC 38), 52=239 (LC 38), 53=244 (LC 38), 54=244 (LC 38), 55=159 (LC 38), 56=228 (LC 39), 57=225 (LC 39), 58=222 (LC 39), 59=222 (LC 39), 60=225 (LC 39), 61=230 (LC 39), 62=87 (LC 39)			
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.				
WEBS	1 Row at midpt	18-45, 17-46, 16-47, 15-48, 14-49, 13-50, 12-51, 11-52, 10-53, 9-54, 8-55, 7-56, 6-57, 19-44, 20-43			

REACTIONS (size)			
	33=58-0-0, 34=58-0-0, 35=58-0-0, 36=58-0-0, 37=58-0-0, 38=58-0-0, 39=58-0-0, 40=58-0-0, 41=58-0-0, 42=58-0-0, 43=58-0-0, 44=58-0-0, 45=58-0-0, 46=58-0-0, 47=58-0-0, 48=58-0-0, 49=58-0-0, 50=58-0-0, 51=58-0-0, 52=58-0-0, 53=58-0-0, 54=58-0-0, 55=58-0-0, 56=58-0-0, 57=58-0-0, 58=58-0-0, 59=58-0-0, 60=58-0-0, 61=58-0-0, 62=58-0-0		
Max Horiz	62=-149 (LC 12)		

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



March 22, 2023

Continued on page 2

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades
CCP	A05G	Piggyback Base Supported Gable	1	1	I57322067
					Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:43  
ID:Kiz5zymMQaoXRnzVsgszLszZ35h-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwRCDoi7J4zJC?f

Page: 2

**BOT CHORD** 61-62=-99/196, 60-61=-99/196, 59-60=-99/196, 58-59=-99/196, 57-58=-99/196, 56-57=-99/196, 55-56=-99/196, 53-55=-99/196, 52-53=-98/195, 51-52=-98/195, 50-51=-98/195, 48-50=-99/196, 47-48=-99/196, 46-47=-99/196, 45-46=-99/196, 44-45=-99/196, 43-44=-99/196, 42-43=-99/196, 40-42=-100/197, 39-40=-100/197, 38-39=-100/197, 37-38=-100/197, 36-37=-100/197, 35-36=-100/197, 34-35=-100/197, 33-34=-100/197

**WEBS** 18-45=-121/0, 17-46=-209/33, 16-47=-203/41, 15-48=-195/38, 14-49=-199/38, 13-50=-200/38, 12-51=-199/38, 11-52=-199/38, 10-53=-203/41, 9-54=-204/32, 8-55=-121/0, 7-56=-187/47, 6-57=-185/59, 5-58=-182/55, 4-59=-182/54, 3-60=-185/56, 2-61=-187/62, 19-44=-187/47, 20-43=-185/59, 21-42=-183/55, 22-41=-183/54, 23-40=-183/55, 24-39=-186/54, 25-38=-155/54, 27-37=-120/54, 28-36=-119/55, 29-35=-125/53, 30-34=-96/97

- 15) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-8=-52, 8-18=-60, 18-31=-52, 31-32=-52, 33-62=-20

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) \*\* TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 5) Roof design snow load has been reduced to account for slope.
- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 8) Provide adequate drainage to prevent water ponding.
- 9) Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 62, 9 lb uplift at joint 46, 15 lb uplift at joint 47, 13 lb uplift at joint 48, 12 lb uplift at joint 49, 12 lb uplift at joint 50, 13 lb uplift at joint 51, 13 lb uplift at joint 52, 14 lb uplift at joint 53, 8 lb uplift at joint 54, 16 lb uplift at joint 56, 26 lb uplift at joint 57, 23 lb uplift at joint 58, 22 lb uplift at joint 59, 26 lb uplift at joint 60, 22 lb uplift at joint 61, 17 lb uplift at joint 44, 26 lb uplift at joint 43, 23 lb uplift at joint 42, 22 lb uplift at joint 41, 25 lb uplift at joint 40, 22 lb uplift at joint 39, 23 lb uplift at joint 38, 22 lb uplift at joint 37, 26 lb uplift at joint 36, 7 lb uplift at joint 35 and 102 lb uplift at joint 34.

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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



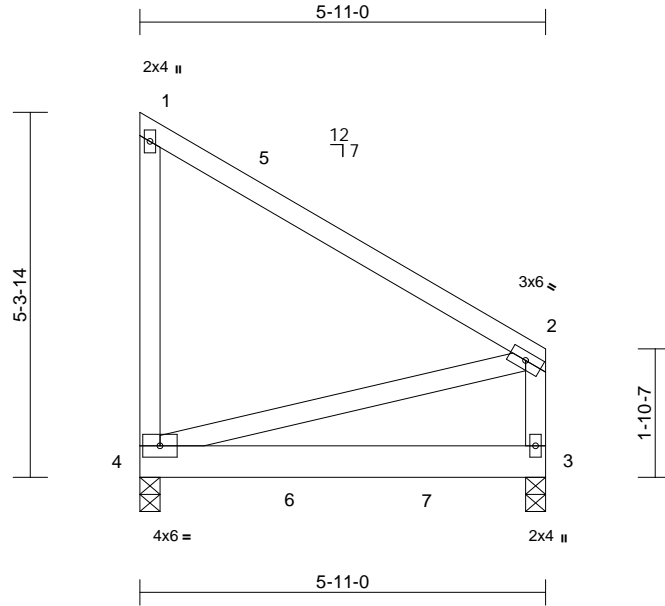
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss B01	Truss Type Roof Special Girder	Qty 1	Ply 2	Mattamy - Glades Job Reference (optional)	157322068
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:46  
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Page: 1



Scale = 1:33.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.13	3-4	>509	240	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.25	3-4	>267	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 82 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP DSS  
WEBS 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-11-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 3=0-3-8, 4=0-3-8  
Max Horiz 4=-141 (LC 8)  
Max Uplift 3=-105 (LC 13), 4=-136 (LC 8)  
Max Grav 3=2160 (LC 6), 4=1869 (LC 6)

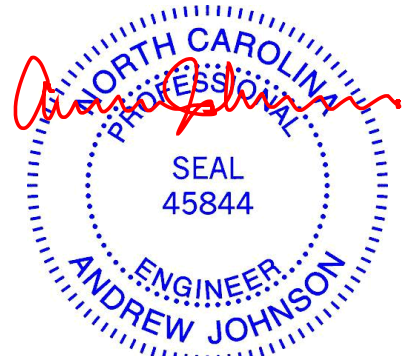
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-4=-179/59, 1-2=-113/87, 2-3=-169/28  
BOT CHORD 3-4=-16/12  
WEBS 2-4=-72/102

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 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.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust)  
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 3 and 136 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1841 lb down and 102 lb up at 2-2-4, and 1841 lb down and 102 lb up at 4-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-2=-46, 3-4=-20  
Concentrated Loads (lb)  
Vert: 6=-1793 (B), 7=-1793 (B)



March 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



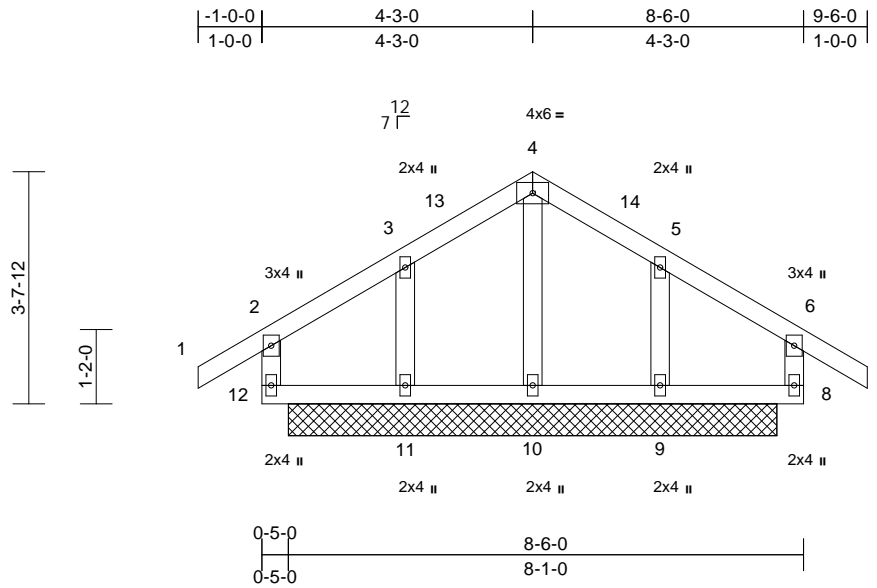
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss B01G	Truss Type Common Supported Gable	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional)	157322069
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



Scale = 1:36.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0											
										Weight: 44 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 8-6-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 9=7-8-0, 10=7-8-0, 11=7-8-0  
Max Horiz 11=86 (LC 14)  
Max Uplift 9=66 (LC 17), 11=66 (LC 16)  
Max Grav 9=365 (LC 35), 10=177 (LC 2), 11=365 (LC 34)

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

TOP CHORD 2-12=-35/36, 1-2=0/58, 2-3=-28/190, 3-4=-1/164, 4-5=-2/164, 5-6=-28/190, 6-7=0/58, 6-8=-35/36

BOT CHORD 11-12=-143/76, 10-11=-143/76, 9-10=-143/76, 8-9=-143/76

WEBS 4-10=-199/0, 3-11=-218/99, 5-9=-218/99

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 5) Roof design snow load has been reduced to account for slope.
- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 66 lb uplift at joint 11 and 66 lb uplift at joint 9.
- 13) Non Standard bearing condition. Review required.
- 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



March 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



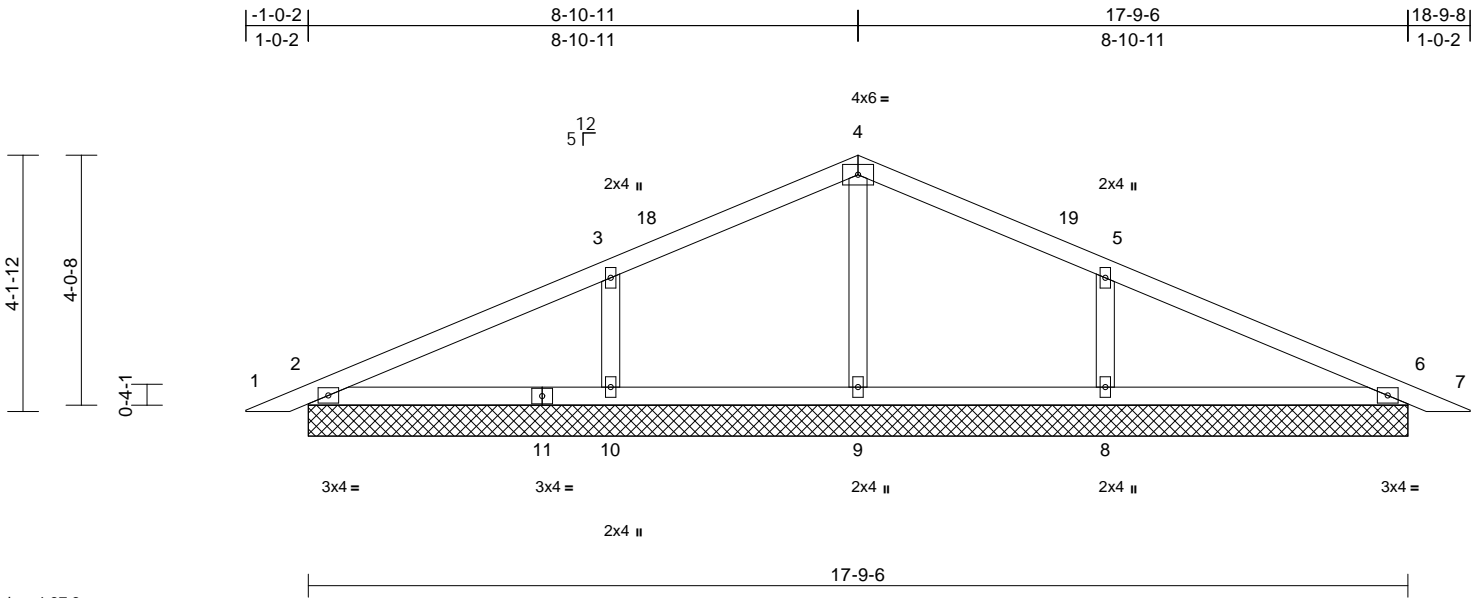
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss PB01	Truss Type Piggyback	Qty 19	Ply 1	Mattamy - Glades Job Reference (optional)	157322070
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:46  
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 69 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=17-9-6, 6=17-9-6, 8=17-9-6, 9=17-9-6, 10=17-9-6, 12=17-9-6, 15=17-9-6  
Max Horiz 2=52 (LC 20), 12=52 (LC 20)  
Max Uplift 2=-8 (LC 16), 6=-17 (LC 17), 8=-65 (LC 17), 10=-66 (LC 16), 12=-8 (LC 16), 15=-17 (LC 17)  
Max Grav 2=214 (LC 2), 6=214 (LC 2), 8=432 (LC 35), 9=215 (LC 2), 10=432 (LC 34), 12=214 (LC 2), 15=214 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/25, 2-3=-74/46, 3-4=-94/89, 4-5=-94/89, 5-6=-74/33, 6-7=0/25  
BOT CHORD 2-10=-9/63, 9-10=0/52, 8-9=0/52, 6-8=0/62  
WEBS 4-9=-163/14, 3-10=-306/126, 5-8=-306/126

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 2, 17 lb uplift at joint 6, 66 lb uplift at joint 10, 65 lb uplift at joint 8, 8 lb uplift at joint 2 and 17 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



March 22, 2023

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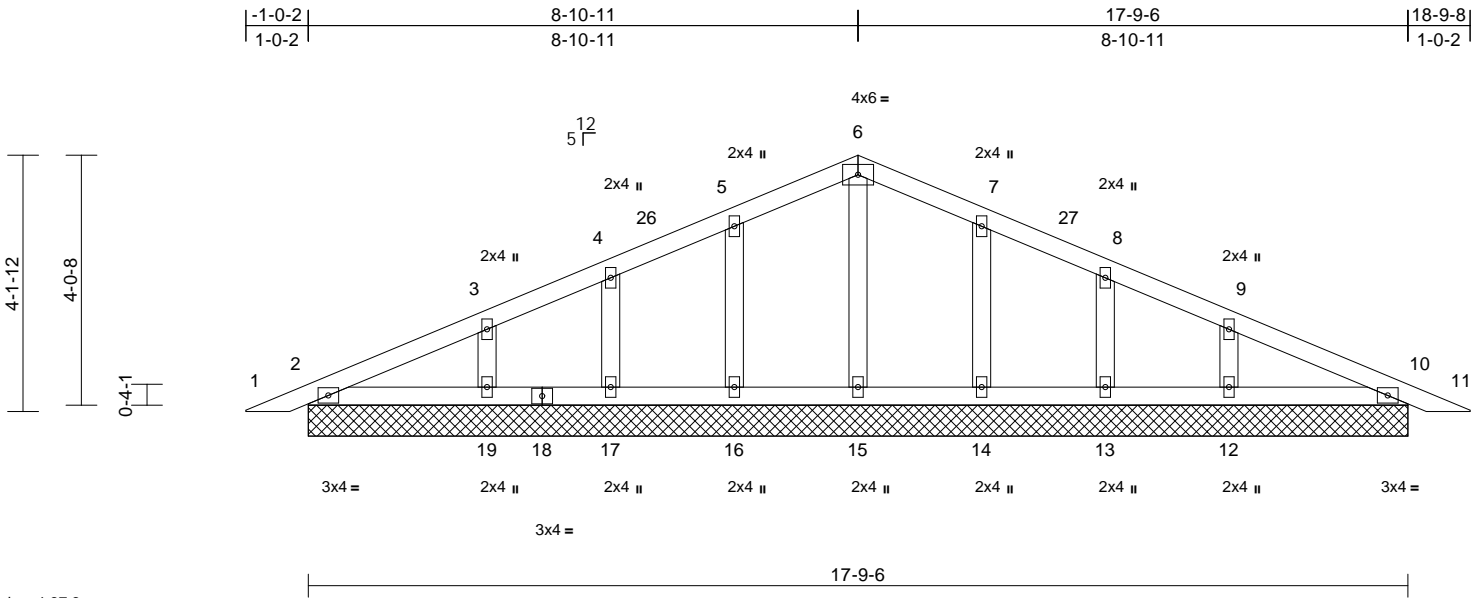


Job CCP	Truss PB01G	Truss Type Piggyback	Qty 2	Ply 1	Mattamy - Glades Job Reference (optional)	157322071
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Loading (psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCLL	Code	IRC2015/TPI2014	Matrix-MS								
BCDL										Weight: 80 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=17-9-6, 10=17-9-6, 12=17-9-6, 13=17-9-6, 14=17-9-6, 15=17-9-6, 16=17-9-6, 17=17-9-6, 19=17-9-6, 20=17-9-6, 23=17-9-6  
Max Horiz 2=-52 (LC 17), 20=-52 (LC 17)  
Max Uplift 2=-5 (LC 12), 10=-8 (LC 17), 12=-33 (LC 17), 13=-20 (LC 17), 14=-26 (LC 17), 16=-26 (LC 16), 17=-19 (LC 16), 19=-33 (LC 16), 20=-5 (LC 12), 23=-8 (LC 17)  
Max Grav 2=144 (LC 2), 10=144 (LC 2), 12=230 (LC 35), 13=134 (LC 2), 14=194 (LC 24), 15=136 (LC 2), 16=194 (LC 23), 17=134 (LC 2), 19=230 (LC 34), 20=144 (LC 2), 23=144 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/25, 2-3=-49/39, 3-4=-43/45, 4-5=-34/61, 5-6=-43/90, 6-7=-43/90, 7-8=-34/59, 8-9=-39/30, 9-10=-38/25, 10-11=0/25  
BOT CHORD 2-19=-9/46, 17-19=-9/46, 16-17=-9/46, 15-16=-9/46, 14-15=-9/46, 13-14=-9/46, 12-13=-9/46, 10-12=-9/46  
WEBS 6-15=-98/0, 5-16=-151/56, 4-17=-107/52, 3-19=-156/63, 7-14=-151/56, 8-13=-107/52, 9-12=-156/63

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow; Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- 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 5 lb uplift at joint 2, 26 lb uplift at joint 16, 19 lb uplift at joint 17, 33 lb uplift at joint 19, 26 lb uplift at joint 14, 20 lb uplift at joint 13, 33 lb uplift at joint 12, 8 lb uplift at joint 10, 5 lb uplift at joint 2 and 8 lb uplift at joint 10.

- 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



March 22, 2023

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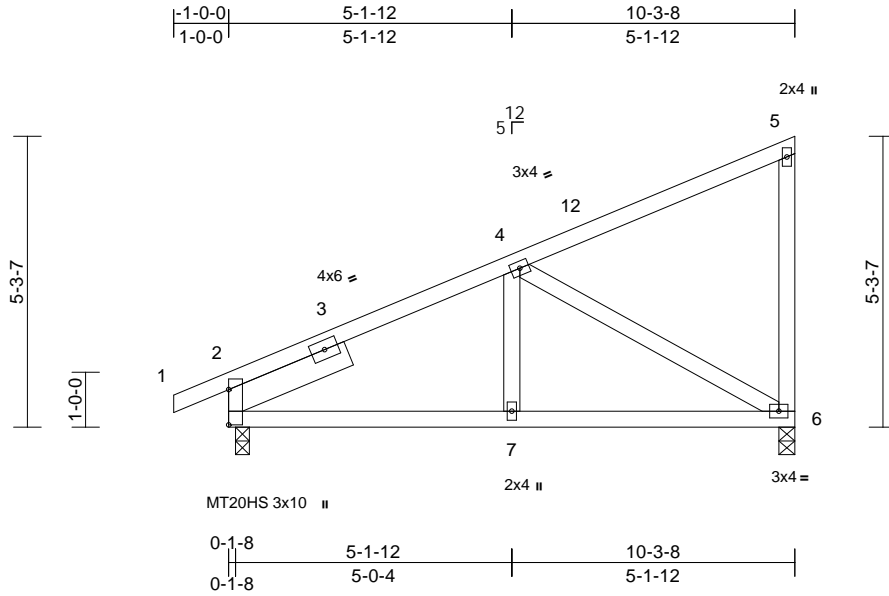
Job CCP	Truss SP01	Truss Type Monopitch	Qty 11	Ply 1	Mattamy - Glades Job Reference (optional)	157322072
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:47

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Scale = 1:41.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.02	6-7	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.04	6-7	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 58 lb	FT = 20%

**LUMBER**

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 2-5-0

**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)	2=0-3-0, 6=0-3-8
Max Horiz	2=158 (LC 15)
Max Uplift	2=-28 (LC 16), 6=-49 (LC 16)
Max Grav	2=469 (LC 2), 6=423 (LC 23)

**FORCES**

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/38, 2-4=-408/95, 4-5=-112/69, 5-6=-157/81
BOT CHORD	2-7=-259/412, 6-7=-193/412
WEBS	4-7=0/211, 4-6=-459/169

**NOTES**

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow; Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 3) Roof design snow load has been reduced to account for slope.
- 4) Unbalanced snow loads have been considered for this design.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 2 and 49 lb uplift at joint 6.
- 10) 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



March 22, 2023

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



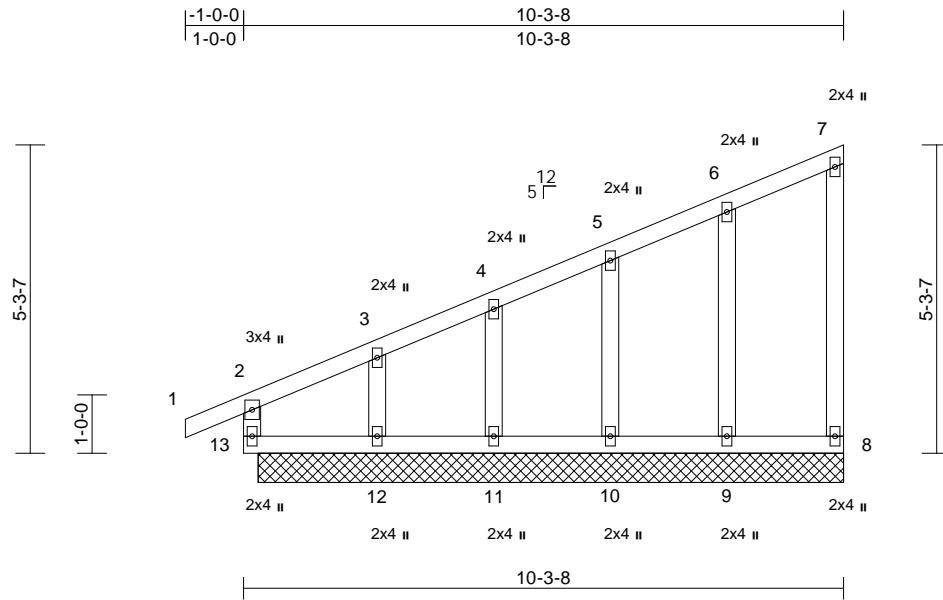
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss SP01G	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional)	157322073
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



Scale = 1:39.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 57 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)  
8=10-0-8, 9=10-0-8, 10=10-0-8, 11=10-0-8, 12=10-0-8, 13=10-0-8  
Max Horiz 13=164 (LC 13)  
Max Uplift 8=-17 (LC 13), 9=-20 (LC 16), 10=-27 (LC 16), 11=-9 (LC 16), 12=-74 (LC 16)  
Max Grav 8=70 (LC 23), 9=196 (LC 23), 10=163 (LC 23), 11=160 (LC 2), 12=159 (LC 2), 13=188 (LC 22)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 2-13=-162/28, 1-2=0/44, 2-3=-227/126, 3-4=-163/98, 4-5=-135/90, 5-6=-99/78, 6-7=-67/59, 7-8=-54/34  
BOT CHORD 12-13=-64/69, 11-12=-64/69, 10-11=-64/69, 9-10=-64/69, 8-9=-64/69  
WEBS 6-9=-154/80, 5-10=-123/74, 4-11=-121/59, 3-12=-116/140

**NOTES**  
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- 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 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 8, 20 lb uplift at joint 9, 27 lb uplift at joint 10, 9 lb uplift at joint 11 and 74 lb uplift at joint 12.
- Non Standard bearing condition. Review required.
- 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



March 22, 2023

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

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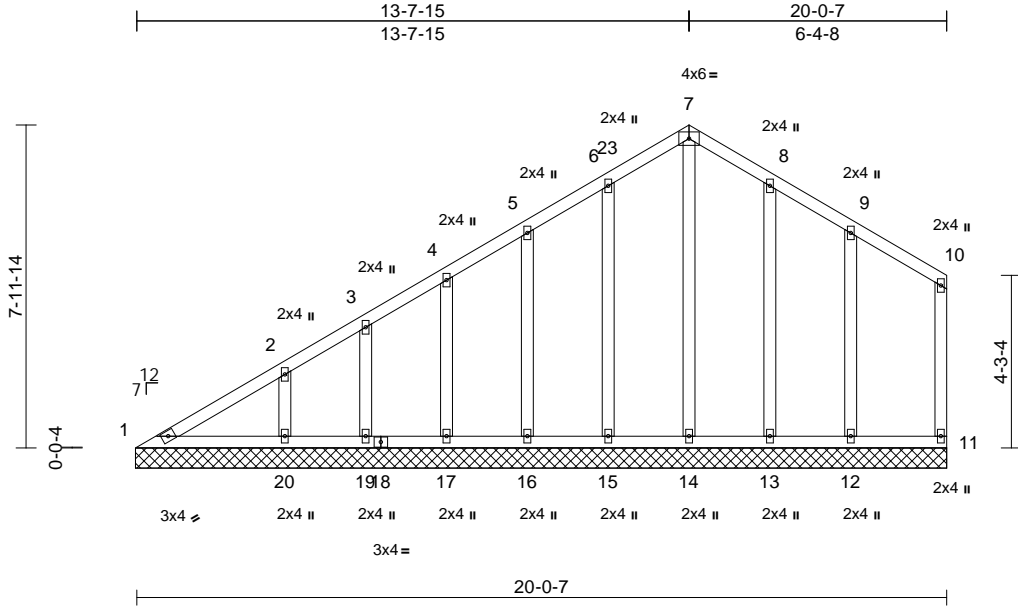
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss V01	Truss Type Valley	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional)	157322074
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:48  
ID:61y\_hxMMeXmw5DVzHHvWpozZ3Hr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:57

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	n/a	-	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	11	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										
										Weight: 127 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=20-0-14, 11=20-0-14,	
12=20-0-14, 13=20-0-14,	
14=20-0-14, 15=20-0-14,	
16=20-0-14, 17=20-0-14,	
19=20-0-14, 20=20-0-14	
Max Horiz	1=192 (LC 13)
Max Uplift	1=19 (LC 12), 11=15 (LC 16),
	12=40 (LC 17), 13=32 (LC 17),
	14=10 (LC 15), 15=32 (LC 16),
	16=34 (LC 16), 17=34 (LC 16),
	19=29 (LC 16), 20=46 (LC 16)
Max Grav	1=154 (LC 30), 11=94 (LC 30),
	12=193 (LC 30), 13=199 (LC 23),
	14=169 (LC 29), 15=172 (LC 29),
	16=157 (LC 29), 17=176 (LC 29),
	19=109 (LC 29), 20=300 (LC 2)

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

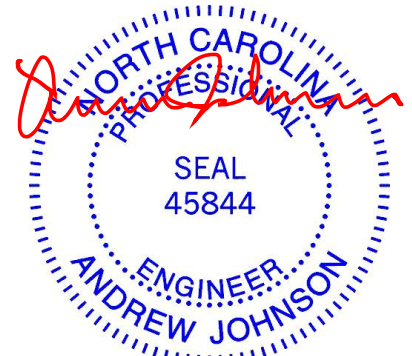
TOP CHORD	1-2=-249/157, 2-3=-161/125, 3-4=-142/126,
	4-5=-134/122, 5-6=-123/130, 6-7=-150/166,
	7-8=-150/166, 8-9=-120/130, 9-10=-85/91,
	10-11=-85/63
BOT CHORD	1-20=-66/175, 19-20=-47/53, 17-19=-47/53,
	16-17=-47/53, 15-16=-47/53, 14-15=-47/53,
	13-14=-47/53, 12-13=-47/53, 11-12=-47/53
WEBS	7-14=-129/54, 6-15=-131/57, 5-16=-119/58,
	4-17=-128/58, 3-19=-96/53, 2-20=-192/70,
	8-13=-161/53, 9-12=-139/73

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow; Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- 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 15 lb uplift at joint 11, 19 lb uplift at joint 1, 10 lb uplift at joint 14, 32 lb uplift at joint 15, 34 lb uplift at joint 16, 34 lb uplift at joint 17, 29 lb uplift at joint 19, 46 lb uplift at joint 20, 32 lb uplift at joint 13 and 40 lb uplift at joint 12.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.

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



March 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



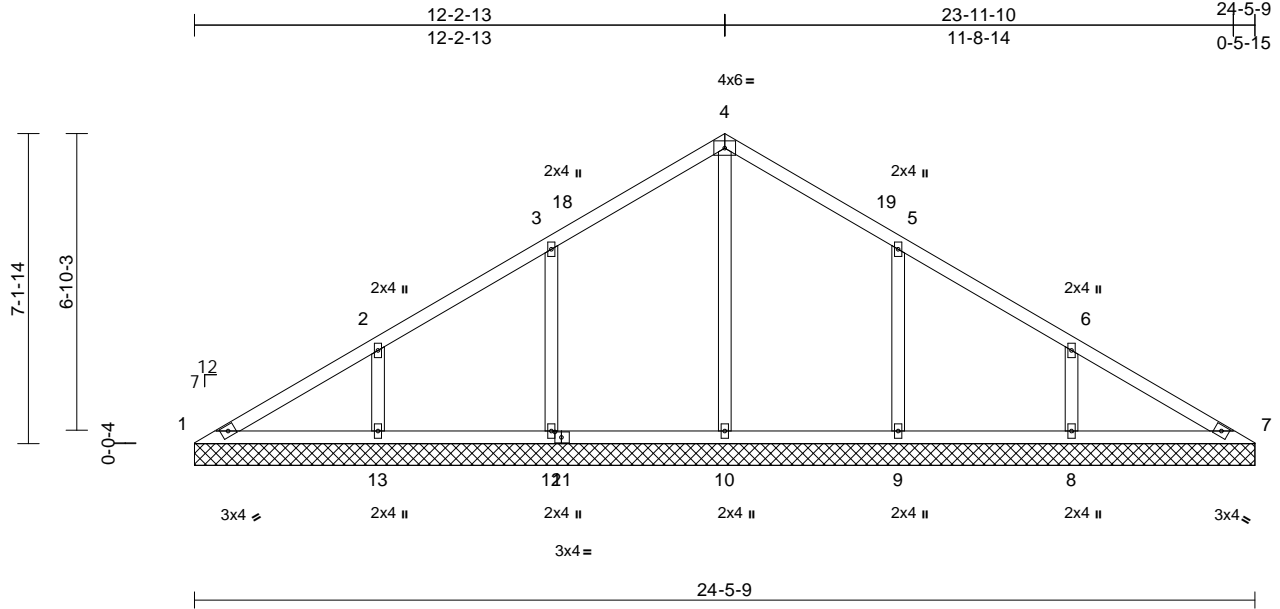
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss V02	Truss Type Valley	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional)	157322075
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:49  
ID: ?y98nVzgpGYRUOKw?IAIRIzYQks-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:53.2

Plate Offsets (X, Y): [11:0-1-13,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.25	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 105 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 6-0-0 oc bracing.

**REACTIONS**

(size) 1=24-5-9, 7=24-5-9, 8=24-5-9,  
9=24-5-9, 10=24-5-9, 12=24-5-9,  
13=24-5-9  
Max Horiz 1=-135 (LC 12)  
Max Uplift 1=-3 (LC 12), 8=-66 (LC 17), 9=-74  
(LC 17), 12=-74 (LC 16), 13=-67  
(LC 16)  
Max Grav 1=119 (LC 30), 7=116 (LC 34),  
8=366 (LC 2), 9=386 (LC 30),  
10=479 (LC 29), 12=379 (LC 29),  
13=366 (LC 2)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-174/183, 2-3=-58/156, 3-4=-62/155,  
4-5=-62/145, 5-6=-13/120, 6-7=-156/141  
BOT CHORD 1-13=-106/162, 12-13=-106/88,  
10-12=-106/88, 9-10=-106/88, 8-9=-106/88,  
7-8=-106/130  
WEBS 4-10=-278/0, 3-12=-257/124, 2-13=-254/107,  
5-9=-257/124, 6-8=-254/106

**NOTES**

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 1, 74 lb uplift at joint 12, 67 lb uplift at joint 13, 74 lb uplift at joint 9 and 66 lb uplift at joint 8.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 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



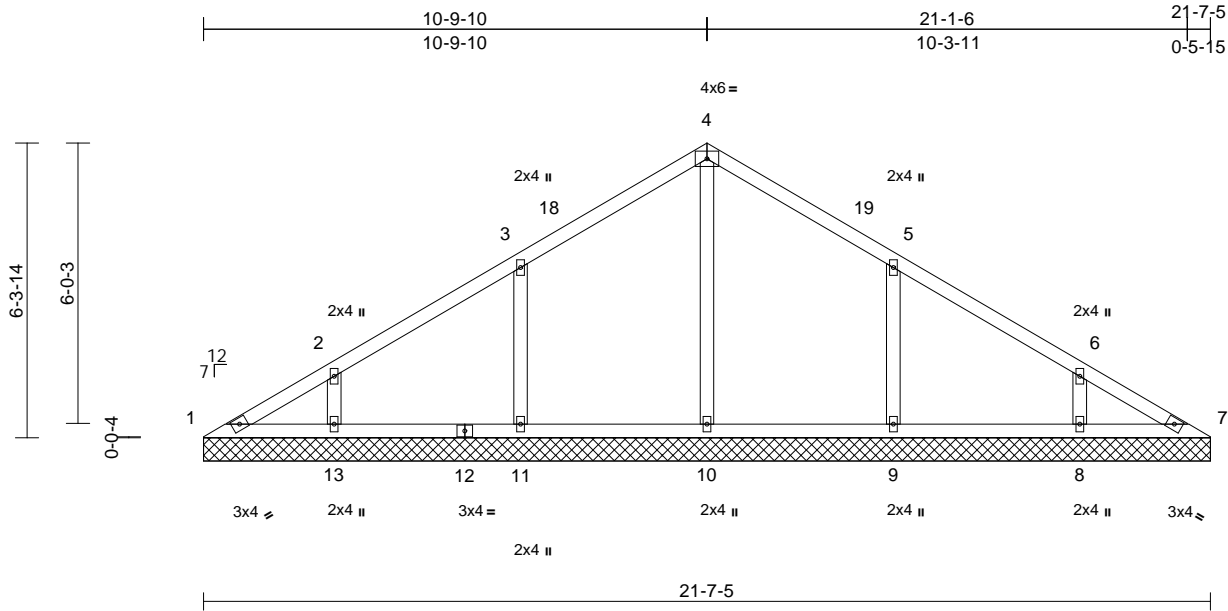
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss V03	Truss Type Valley	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional)	157322076
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:49  
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Page: 1



Scale = 1:49.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	n/a	-	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	7	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0									Weight: 90 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 6-0-0 oc bracing.

**REACTIONS** (size)  
1=21-7-5, 7=21-7-5, 8=21-7-5,  
9=21-7-5, 10=21-7-5, 11=21-7-5,  
13=21-7-5  
Max Horiz 1=119 (LC 13)  
Max Uplift 1=-10 (LC 12), 8=-49 (LC 17),  
9=-78 (LC 17), 11=-78 (LC 16),  
13=-51 (LC 16)  
Max Grav 1=99 (LC 30), 7=84 (LC 2), 8=298  
(LC 2), 9=406 (LC 30), 10=406 (LC  
29), 11=406 (LC 29), 13=298 (LC  
2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-142/105, 2-3=-103/95, 3-4=-108/118,  
4-5=-108/112, 5-6=-67/63, 6-7=-107/66  
BOT CHORD 1-13=-47/119, 11-13=-47/74, 10-11=-47/74,  
9-10=-47/74, 8-9=-47/74, 7-8=-47/90  
WEBS 4-10=-204/0, 3-11=-267/127, 2-13=-215/93,  
5-9=-267/127, 6-8=-215/92

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1, 78 lb uplift at joint 11, 51 lb uplift at joint 13, 78 lb uplift at joint 9 and 49 lb uplift at joint 8.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



March 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



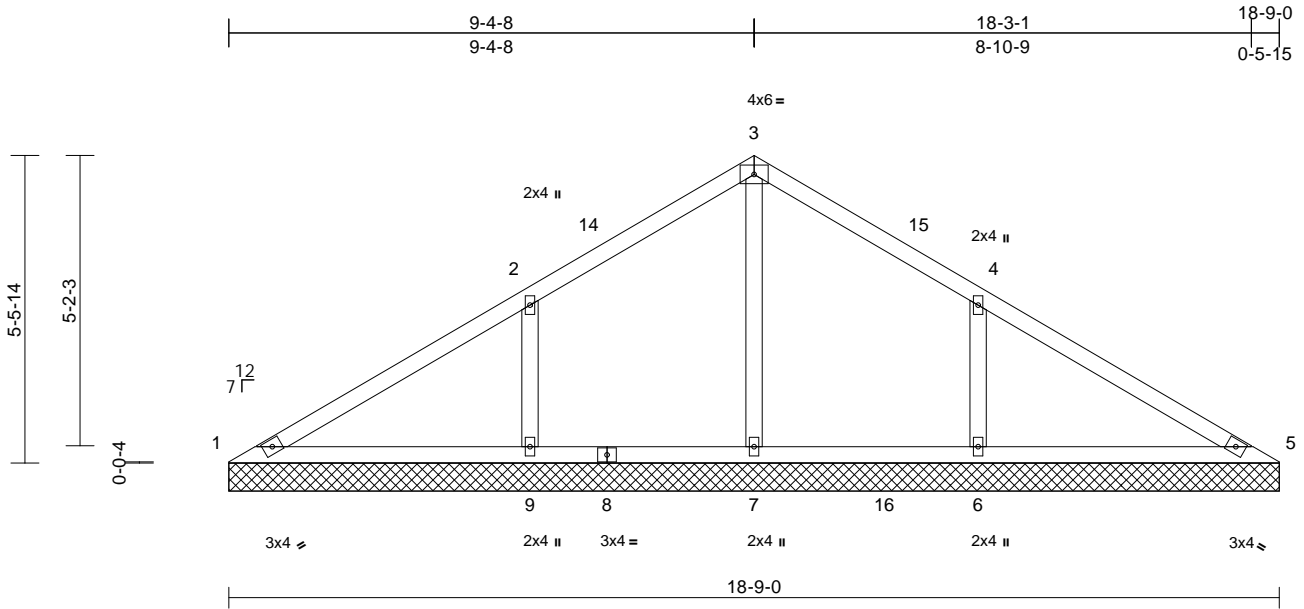
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss V04	Truss Type Valley	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional)	157322077
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.24	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 73 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 10-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

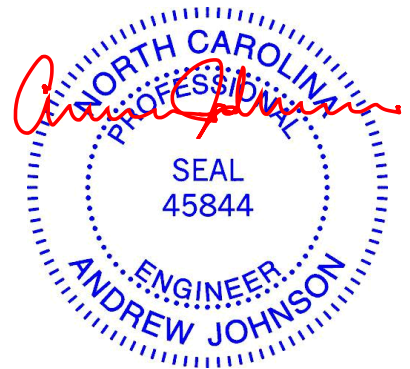
**REACTIONS** (size) 1=18-9-0, 5=18-9-0, 6=18-9-0, 7=18-9-0, 9=18-9-0  
Max Horiz 1=-103 (LC 12)  
Max Uplift 6=-92 (LC 17), 9=-93 (LC 16)  
Max Grav 1=104 (LC 33), 5=104 (LC 34), 6=469 (LC 30), 7=515 (LC 29), 9=477 (LC 29)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-125/296, 2-3=0/251, 3-4=0/251, 4-5=-125/287  
BOT CHORD 1-9=-200/113, 7-9=-200/75, 6-7=-200/75, 5-6=-200/104  
WEBS 3-7=-392/0, 2-9=-317/136, 4-6=-317/135

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 9 and 92 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
  - 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.



March 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



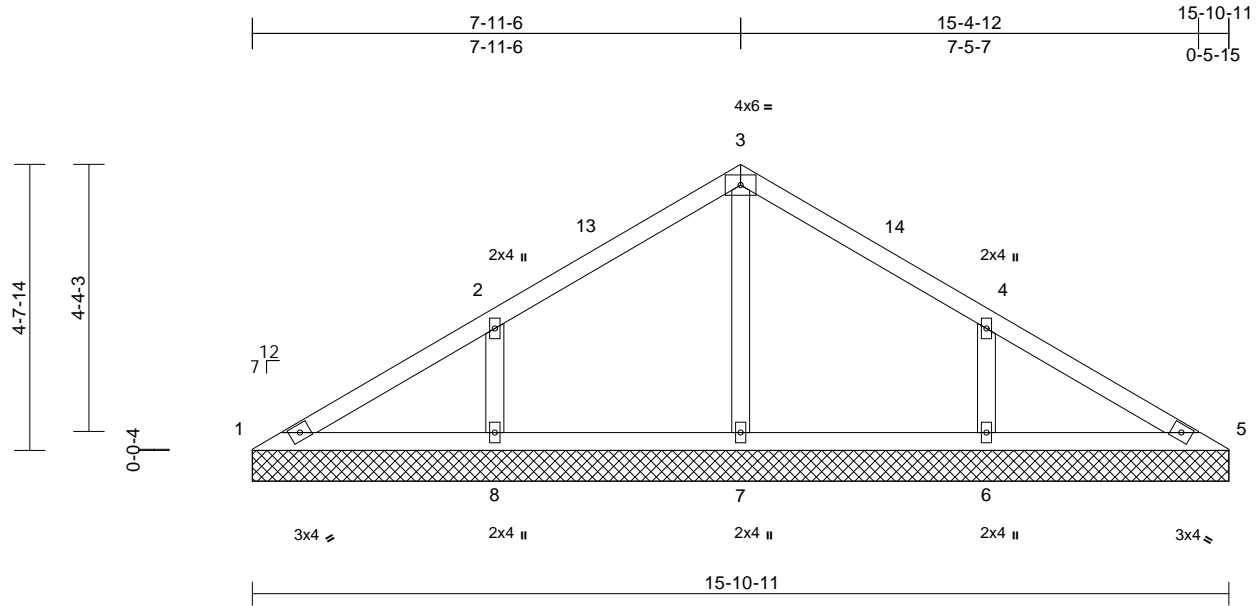
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss V05	Truss Type Valley	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional)	157322078
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:50  
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Page: 1



Loading (psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	Code	IRC2015/TPI2014	Matrix-MS								
BCDL										Weight: 61 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 10-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size)  
1=15-10-11, 5=15-10-11,  
6=15-10-11, 7=15-10-11,  
8=15-10-11  
Max Horiz 1=-87 (LC 12)  
Max Uplift 1=-2 (LC 17), 6=-76 (LC 17), 8=-77 (LC 16)  
Max Grav 1=99 (LC 33), 5=99 (LC 34), 6=373 (LC 34), 7=349 (LC 2), 8=373 (LC 29)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-126/160, 2-3=-18/134, 3-4=-16/123, 4-5=-126/132  
BOT CHORD 1-8=-90/122, 7-8=-90/54, 6-7=-90/54, 5-6=-90/103  
WEBS 3-7=-281/4, 2-8=-268/117, 4-6=-268/116

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1, 77 lb uplift at joint 8 and 76 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



March 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

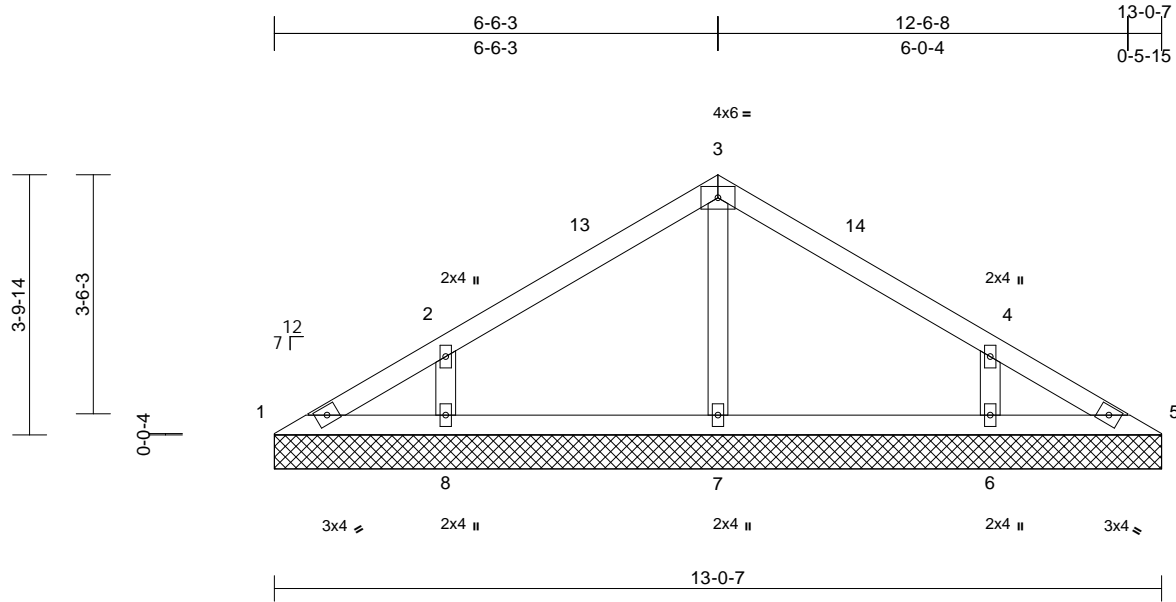


Job CCP	Truss V06	Truss Type Valley	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional)	157322079
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Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Wed Mar 22 09:57:50  
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Page: 1



Scale = 1:33.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 48 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) 1=13-0-7, 5=13-0-7, 6=13-0-7, 7=13-0-7, 8=13-0-7  
Max Horiz 1=-71 (LC 12)  
Max Uplift 1=-5 (LC 17), 6=-65 (LC 17), 8=-66 (LC 16)  
Max Grav 1=75 (LC 30), 5=70 (LC 2), 6=314 (LC 34), 7=287 (LC 2), 8=314 (LC 33)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-100/69, 2-3=-91/72, 3-4=-86/67, 4-5=-83/47  
BOT CHORD 1-8=-20/79, 7-8=-20/38, 6-7=-20/38, 5-6=-20/65  
WEBS 3-7=-203/11, 2-8=-245/112, 4-6=-245/111

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow; Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1, 66 lb uplift at joint 8 and 65 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
  - 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.



March 22, 2023

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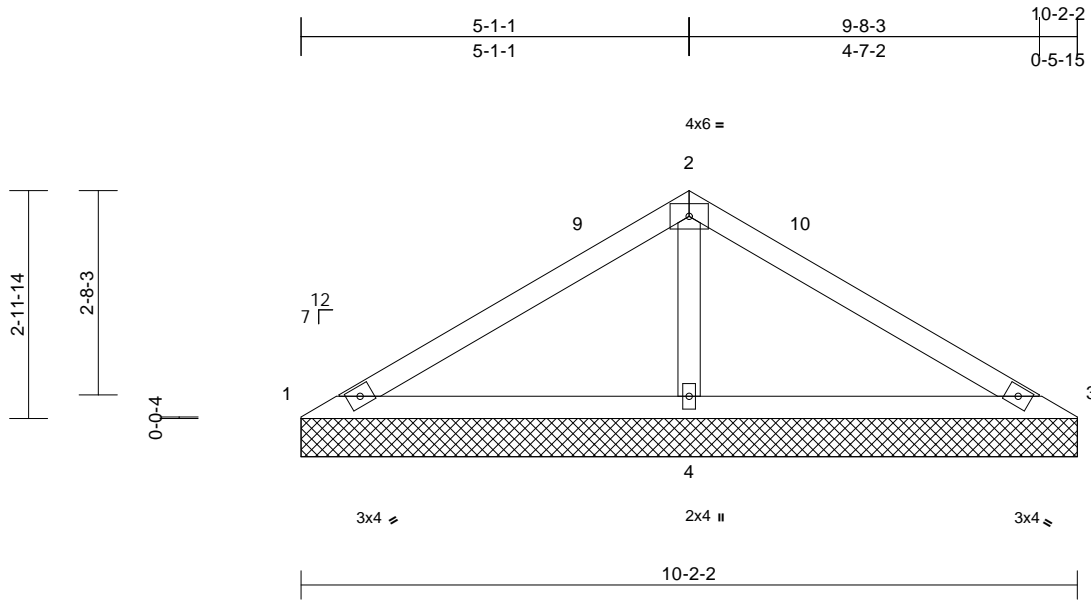
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss V07	Truss Type Valley	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional)	157322080
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.27	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 34 lb	FT = 20%

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

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

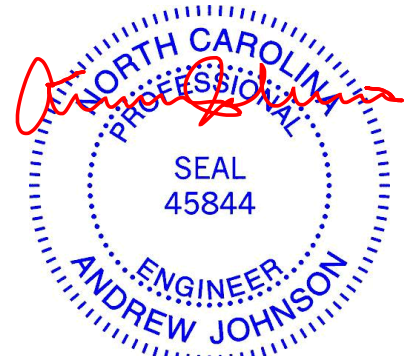
**REACTIONS** (size) 1=10-2-2, 3=10-2-2, 4=10-2-2  
Max Horiz 1=-55 (LC 12)  
Max Uplift 1=-25 (LC 34), 3=-25 (LC 33), 4=-21 (LC 16)  
Max Grav 1=77 (LC 33), 3=77 (LC 34), 4=745 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-69/364, 2-3=-69/364  
BOT CHORD 1-4=-256/82, 3-4=-256/82  
WEBS 2-4=-570/113

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- 5) Roof design snow load has been reduced to account for slope.
- 6) Unbalanced snow loads have been considered for this design.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 4-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1, 25 lb uplift at joint 3 and 21 lb uplift at joint 4.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



March 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

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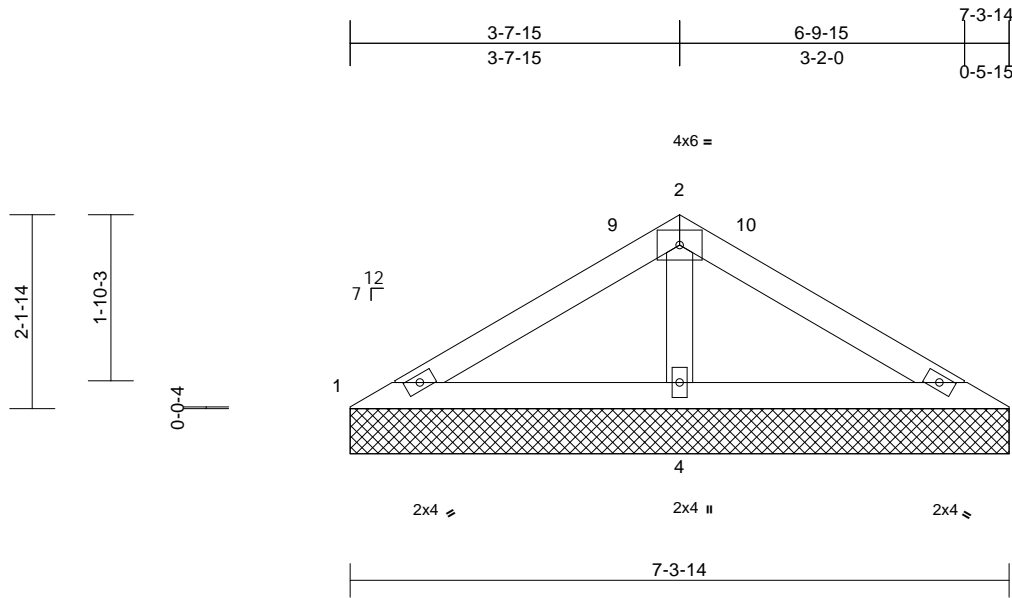
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss V08	Truss Type Valley	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional)	157322081
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 24 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 7-3-14 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

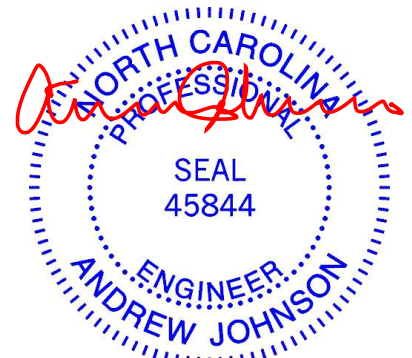
**REACTIONS** (size) 1=7-3-14, 3=7-3-14, 4=7-3-14  
Max Horiz 1=-38 (LC 12)  
Max Uplift 1=-2 (LC 16), 3=-8 (LC 17), 4=-12 (LC 16)  
Max Grav 1=73 (LC 33), 3=73 (LC 34), 4=488 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-73/214, 2-3=-73/214  
BOT CHORD 1-4=-162/61, 3-4=-162/61  
WEBS 2-4=-338/68

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1, 8 lb uplift at joint 3 and 12 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



March 22, 2023

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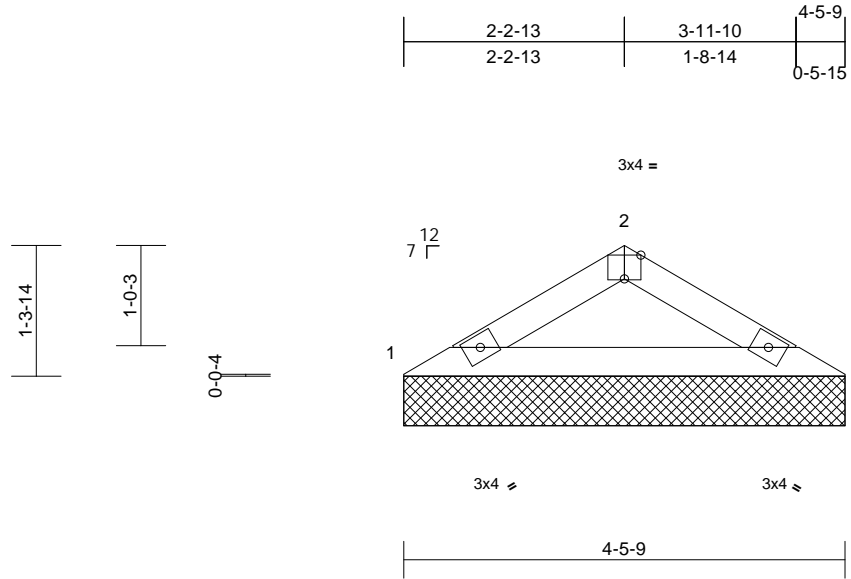
818 Soundside Road  
Edenton, NC 27932

Job CCP	Truss V09	Truss Type Valley	Qty 1	Ply 1	Mattamy - Glades Job Reference (optional)	157322082
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



Scale = 1:23.3

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	1.00	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 13 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 4-5-9 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 1=4-5-9, 3=4-5-9  
Max Horiz 1=22 (LC 13)  
Max Uplift 1=5 (LC 16), 3=5 (LC 17)  
Max Grav 1=179 (LC 2), 3=179 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-291/35, 2-3=-291/35  
BOT CHORD 1-3=-22/244

- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1 and 5 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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; 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=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=13.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.



March 22, 2023

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

# Numbering System

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



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

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