

RE:Malbec

**Site Information:**

Project Customer: DRB Raleigh Project Name:

Lot/Block:

Subdivision: DRB Raleigh

Model:

Address:

City:

State:

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

Design Code: IRC2021/TPI2014

Wind Code: ASCE 7-16

Wind Speed: 120 mph

Roof Load: 40.0 psf

Mean Roof Height (feet): 25

Design Program: MiTek 20/20 8.8

Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

Floor Load: N/A psf

Exposure Category: B

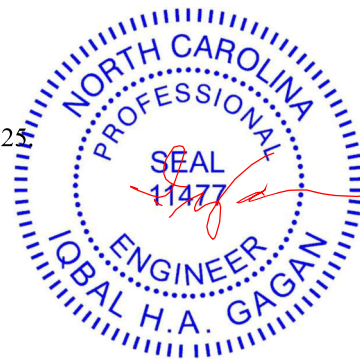
No.	Seal#	Truss Name	Date
1	I71314887	G1G	2/11/25
2	I71314888	G1	2/11/25
3	I71314889	P1G	2/11/25
4	I71314890	P1	2/11/25
5	I71314891	A1G	2/11/25
6	I71314892	A1A	2/11/25
7	I71314893	A1	2/11/25
8	I71314894	A2G	2/11/25
9	I71314895	A2	2/11/25
10	I71314896	A1SG	2/11/25
11	I71314897	PB1G	2/11/25
12	I71314898	PB1	2/11/25
13	I71314899	C1G	2/11/25
14	I71314900	C1	2/11/25
	I71314901	A2T	2/11/25
16	I71314902	A1T	2/11/25
17	I71314903	A1ST	2/11/25

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

Truss Design Engineer's Name: Gagan, Iqbal

My license renewal date for the state of North Carolina is December 31, 2025

**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.



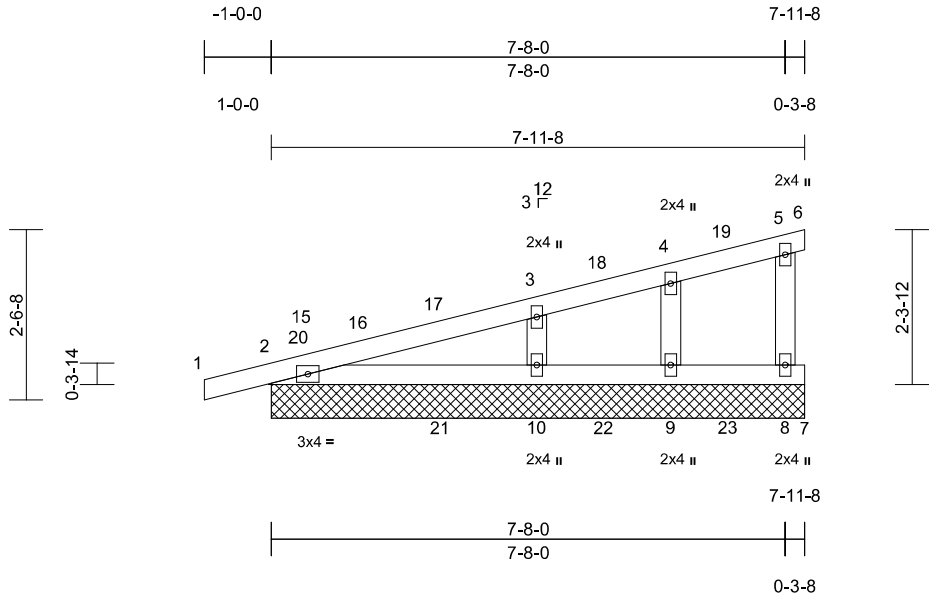
February 11, 2025

Job	Truss	Truss Type	Qty	Ply	Malbec	I71314887
	G1G	Monopitch Supported Gable	6	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

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ID:TIKeFgTRviiJUR7oXNce8Jy9kmp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?i

Page: 1



Scale = 1:33.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.33	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	IRC2021/TPI2014	Matrix-AS							
BCDL	10.0										
Weight: 31 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.
- BOT CHORD Rigid ceiling directly applied.
- REACTIONS** (size) 2=7-11-8, 6=7-11-8, 7=7-11-8, 8=7-11-8, 9=7-11-8, 10=7-11-8
- Max Horiz 2=51 (LC 12)
- Max Uplift 2=-11 (LC 12), 6=-128 (LC 44), 7=-219 (LC 55), 8=-36 (LC 54), 9=-70 (LC 53)
- Max Grav 2=341 (LC 57), 6=54 (LC 45), 7=52 (LC 54), 8=424 (LC 55), 9=296 (LC 60), 10=434 (LC 53)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/20, 2-3=-188/48, 3-4=-51/34, 4-5=-34/36, 5-6=-32/13
- BOT CHORD 2-10=-39/171, 9-10=0/0, 8-9=0/0, 7-8=0/0
- WEBS 4-9=-270/96, 3-10=-329/181, 5-8=-281/83
- NOTES**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 7-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 .
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2, 219 lb uplift at joint 7, 128 lb uplift at joint 6, 70 lb uplift at joint 9, 36 lb uplift at joint 8 and 11 lb uplift at joint 2.

- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



February 11,2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacomponents.com](http://www.sbcacomponents.com))



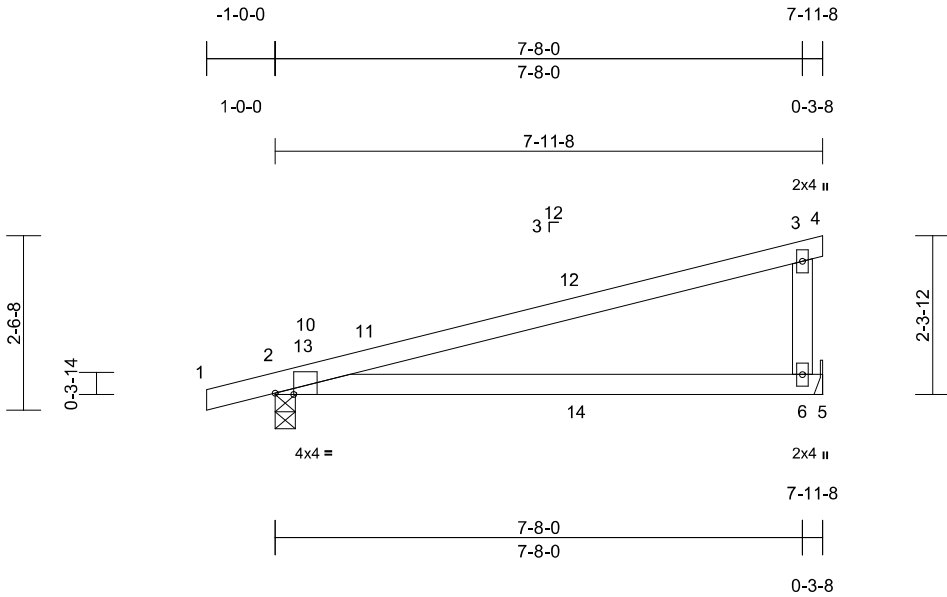
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Malbec	I71314888
	G1	Monopitch	30	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

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Page: 1



Scale = 1:32.6									
Plate Offsets (X, Y): [2:0-3-4,Edge]									
<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	I/defl
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.24	6-9	>382
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.38	6-9	>240
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	2	n/a
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.11	6-9	>849
BCDL	10.0								
						<b>PLATES</b>	<b>GRIP</b>		
						MT20	244/190		
						Weight: 28 lb	FT = 20%		

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.

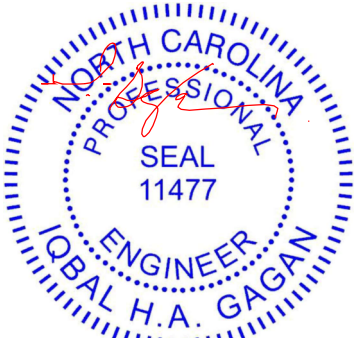
**REACTIONS**  
(size) 2=0-3-8, 6= Mechanical  
Max Horiz 2=51 (LC 12)  
Max Uplift 2=-7 (LC 12)  
Max Grav 2=427 (LC 43), 6=417 (LC 45)

**FORCES**  
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/20, 2-3=-346/47, 3-4=-5/0  
BOT CHORD 2-6=-94/325, 5-6=0/0  
WEBS 3-6=-336/145

- NOTES**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust)  
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 7-11-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
  - 5) Plates checked for a plus or minus 5 degree rotation about its center.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Bearings are assumed to be: Joint 2 SP DSS .
- 9) Refer to girder(s) for truss to truss connections.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard

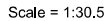


February 11,2025

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

Structural, LLC, Thurmont, MD - 21788, Run: 8:3 S Feb 1 2025 Print: 8:30 S Feb 1 2025 MiTek Industries, Inc. Mon Feb 10 09:25:33 Page: 1  
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February 11, 2025

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

818 Soundside Road  
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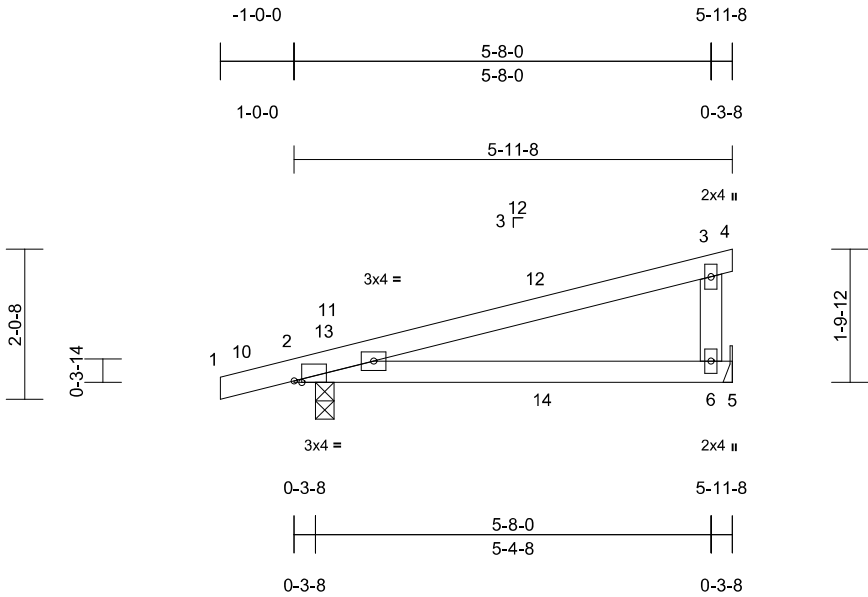


Job	Truss	Truss Type	Qty	Ply	Malbec	I71314890
	P1	Monopitch	12	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

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Page: 1



Scale = 1:30.5									
Plate Offsets (X, Y): [2:0-1-4,Edge]									
<b>Loading</b>		(psf)	<b>Spacing</b>		2-0-0	<b>CSI</b>		<b>DEFL</b>	
TCLL (roof)		20.0	Plate Grip DOL		1.15	TC	0.74	in (loc)	I/defl L/d
Snow (Pf/Pg)	15.4/20.0		Lumber DOL		1.15	BC	0.82	Vert(LL)	-0.12 6-9 >552 360
TCDL	10.0		Rep Stress Incr	YES		WB	0.06	Vert(CT)	-0.18 6-9 >380 240
BCLL	0.0*		Code	IRC2021/TPI2014		Matrix-AS		Horz(CT)	0.00 2 n/a n/a
BCDL	10.0							Wind(LL)	0.07 6-9 >921 240
								<b>PLATES</b>	<b>GRIP</b>
								MT20	244/190
								Weight: 21 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS**  
(size) 2=0-3-0, 6= Mechanical  
Max Horiz 2=40 (LC 12)  
Max Uplift 2=-54 (LC 12), 6=-36 (LC 12)  
Max Grav 2=388 (LC 43), 6=377 (LC 45)

**FORCES**  
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/20, 2-3=-267/77, 3-4=-5/0  
BOT CHORD 2-6=-108/246, 5-6=0/0  
WEBS 3-6=-316/125

- NOTES**
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust)  
Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 5-11-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
  - 5) Plates checked for a plus or minus 5 degree rotation about its center.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Bearings are assumed to be: Joint 2 SP No.2 .
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 6.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard



February 11,2025

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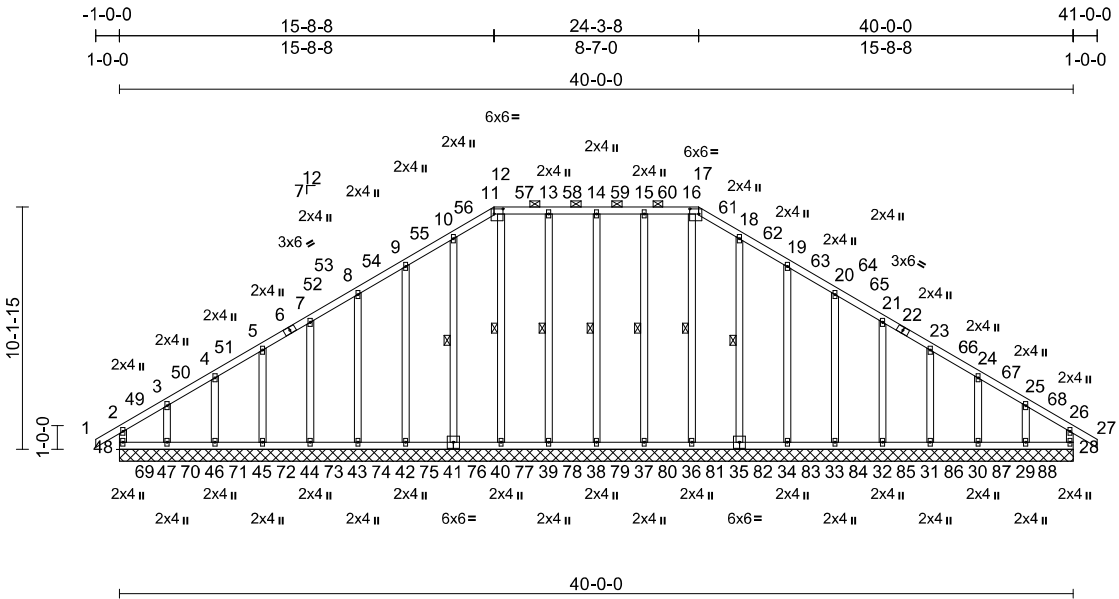
ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate  
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Malbec	I71314891
	A1G	Piggyback Base Supported Gable	3	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

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Page: 1




Scale = 1:94															
Plate Offsets (X, Y): [11:0-4-8,0-2-8], [17:0-4-8,0-2-8]															
<b>Loading</b>		(psf)	<b>Spacing</b>		2-0-0	<b>CSI</b>		<b>DEFL</b>		in	(loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)		20.0	Plate Grip DOL		1.15	TC		0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)		20.4/20.0	Lumber DOL		1.15	BC		0.19	Vert(CT)	n/a	-	n/a	999		
TCDL		10.0	Rep Stress Incr		YES	WB		0.31	Horz(CT)	0.01	28	n/a	n/a		
BCLL		0.0*	Code		IRC2021/TPI2014	Matrix-AS									
BCDL		10.0												Weight: 310 lb	FT = 20%

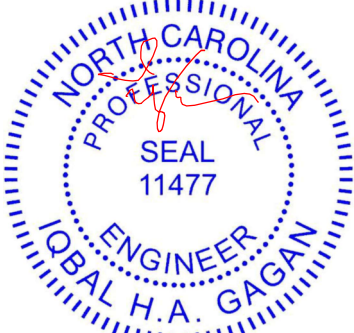
<b>LUMBER</b>		Max Grav	28=315 (LC 153), 29=328 (LC 152), 30=334 (LC 151), 31=333 (LC 150), 32=333 (LC 149), 33=333 (LC 148), 34=333 (LC 147), 35=333 (LC 146), 36=332 (LC 145), 37=333 (LC 144), 38=333 (LC 143), 39=333 (LC 142), 40=332 (LC 141), 41=333 (LC 140), 42=333 (LC 139), 43=333 (LC 138), 44=333 (LC 137), 45=333 (LC 136), 46=334 (LC 135), 47=328 (LC 134), 48=315 (LC 133)	<b>WEBS</b>	14-38=-267/37, 13-39=-268/38, 12-40=-260/3, 10-41=-271/34, 9-42=-273/62, 8-43=-276/54, 7-44=-279/55, 5-45=-281/56, 4-46=-286/54, 3-47=-282/75, 15-37=-268/38, 16-36=-264/3, 18-35=-271/34, 19-34=-273/62, 20-33=-276/54, 21-32=-279/55, 23-31=-281/56, 24-30=-286/54, 25-29=-282/73
<b>TOP CHORD</b>		2x4 SP No.2			
<b>BOT CHORD</b>		2x4 SP No.2			
<b>WEBS</b>		2x4 SP No.3			
<b>OTHERS</b>		2x4 SP No.3			
<b>BRACING</b>					
<b>TOP CHORD</b>		Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 11-17.			
<b>BOT CHORD</b>		Rigid ceiling directly applied.			
<b>WEBS</b>		1 Row at midpt 14-38, 13-39, 12-40, 10-41, 15-37, 16-36, 18-35			
<b>REACTIONS</b> (size)					
		28=40-0-0, 29=40-0-0, 30=40-0-0, 31=40-0-0, 32=40-0-0, 33=40-0-0, 34=40-0-0, 35=40-0-0, 36=40-0-0, 37=40-0-0, 38=40-0-0, 39=40-0-0, 40=40-0-0, 41=40-0-0, 42=40-0-0, 43=40-0-0, 44=40-0-0, 45=40-0-0, 46=40-0-0, 47=40-0-0, 48=40-0-0			
Max Horiz		48=-174 (LC 14)			
Max Uplift		28=-26 (LC 13), 29=-49 (LC 17), 30=-1 (LC 17), 31=-13 (LC 17), 32=-10 (LC 17), 33=-10 (LC 17), 34=-14 (LC 17), 42=-14 (LC 16), 43=-10 (LC 16), 44=-10 (LC 16), 45=-13 (LC 16), 47=-64 (LC 13), 48=-65 (LC 12)			
		<b>FORCES</b>			
		(lb) - Maximum Compression/Maximum Tension			
<b>TOP CHORD</b>		2-48=-297/55, 1-2=0/47, 2-3=-130/122, 3-4=-99/95, 4-5=-96/96, 5-7=-96/94, 7-8=-93/132, 8-9=-110/171, 9-10=-130/213, 10-11=-147/242, 11-12=-129/225, 12-13=-129/225, 13-14=-129/225, 14-15=-129/225, 15-16=-129/225, 16-17=-129/225, 17-18=-147/242, 18-19=-130/213, 19-20=-110/171, 20-21=-93/132, 21-23=-75/92, 23-24=-91/57, 24-25=-71/76, 25-26=-90/73, 26-27=0/47, 26-28=-297/26			
<b>BOT CHORD</b>		47-48=-72/91, 46-47=-72/91, 45-46=-72/91, 44-45=-72/91, 43-44=-72/91, 42-43=-72/91, 40-42=-72/91, 39-40=-72/91, 38-39=-72/91, 37-38=-72/91, 36-37=-72/91, 34-36=-72/91, 33-34=-72/91, 32-33=-72/91, 31-32=-72/91, 30-31=-72/91, 29-30=-72/91, 28-29=-72/91			

**NOTES**

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 15-8-8, Corner (3R) 15-8-8 to 20-0-0, Exterior(2N) 20-0-0 to 24-3-8, Corner(3R) 24-3-8 to 28-0-0, Exterior(2N) 28-0-0 to 41-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60





February 11,2025

Job	Truss	Truss Type	Qty	Ply	Malbec	I71314891
	A1G	Piggyback Base Supported Gable	3	1	Job Reference (optional)	

- 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) TCELL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) Plates checked for a plus or minus 5 degree rotation about its center.
- 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) All bearings are assumed to be SP No.2 .
- 15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 48, 26 lb uplift at joint 28, 14 lb uplift at joint 42, 10 lb uplift at joint 43, 10 lb uplift at joint 44, 13 lb uplift at joint 45, 64 lb uplift at joint 47, 14 lb uplift at joint 34, 10 lb uplift at joint 33, 10 lb uplift at joint 32, 13 lb uplift at joint 31, 1 lb uplift at joint 30 and 49 lb uplift at joint 29.
- 16) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 17) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 18) 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



February 11,2025



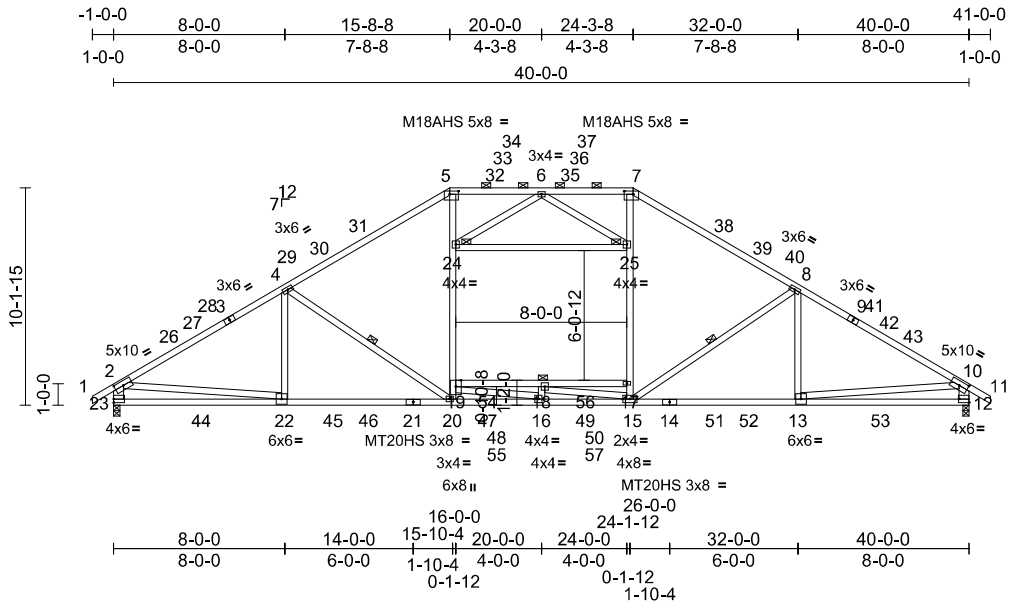


Job	Truss	Truss Type	Qty	Ply	Malbec	I71314893
	A1	Attic	21	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

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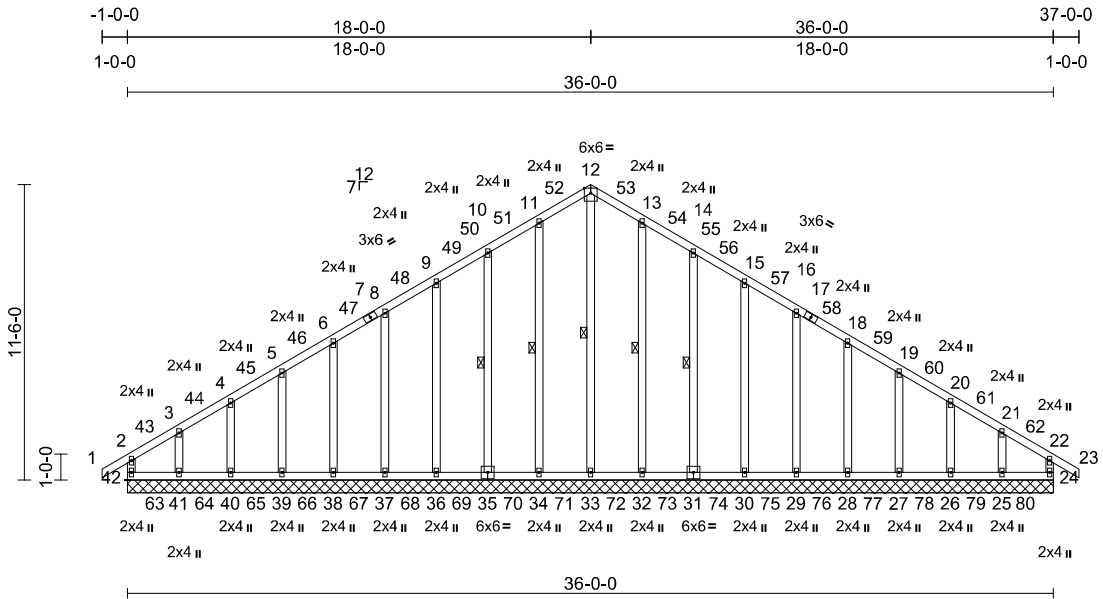


Job	Truss	Truss Type	Qty	Ply	Malbec	I71314894
	A2G	Common Supported Gable	3	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

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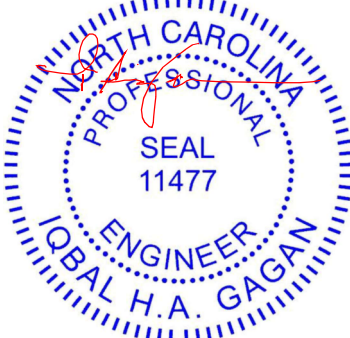
Page: 1



Scale = 1:87.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	24	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS							
BCDL	10.0										
Weight: 273 lb FT = 20%											

<b>LUMBER</b>		<b>FORCES</b>		<div>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.</div> <div>4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10</div> <div>5) Unbalanced snow loads have been considered for this design.</div> <div>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 15.4 psf on overhangs non-concurrent with other live loads.</div> <div>7) Plates checked for a plus or minus 5 degree rotation about its center.</div> <div>8) Gable requires continuous bottom chord bearing.</div> <div>9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).</div> <div>10) Gable studs spaced at 2-0-0 oc.</div> <div>11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</div>
TOP CHORD	2x4 SP No.2	TOP CHORD	2-42=-297/61, 1-2=0/47, 2-3=-148/136, 3-4=-111/107, 4-5=-109/105, 5-6=-99/103, 6-8=-91/120, 8-9=-99/160, 9-10=-121/199, 10-11=-146/241, 11-12=-165/273, 12-13=-165/273, 13-14=-146/241, 14-15=-121/199, 15-16=-99/160, 16-18=-76/120, 18-19=-76/80, 19-20=-77/70, 20-21=-72/76, 21-22=-101/87, 22-23=0/47, 22-24=-297/30	
BOT CHORD	2x4 SP No.2	BOT CHORD	41-42=-82/101, 40-41=-82/101, 39-40=-82/101, 38-39=-82/101, 37-38=-82/101, 36-37=-82/101, 34-36=-82/101, 33-34=-82/101, 32-33=-82/101, 30-32=-82/101, 29-30=-82/101, 28-29=-82/101, 27-28=-82/101, 26-27=-82/101, 25-26=-82/101, 24-25=-82/101	
WEBS	2x4 SP No.3	WEBS	12-33=-249/81, 11-34=-271/37, 10-35=-271/62, 9-36=-273/54, 8-37=-276/55, 6-38=-279/55, 5-39=-281/56, 4-40=-286/53, 3-41=-282/78, 13-32=-271/37, 14-31=-271/62, 15-30=-273/54, 16-29=-276/55, 18-28=-279/55, 19-27=-281/56, 20-26=-286/53, 21-25=-282/76	
OTHERS	2x4 SP No.3			
<b>BRACING</b>		<b>NOTES</b>		
TOP CHORD	Structural wood sheathing directly applied, except end verticals.	1) Unbalanced roof live loads have been considered for this design.		
BOT CHORD	Rigid ceiling directly applied.	2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-7-3, Exterior(2N) 2-7-3 to 18-0-0, Corner (3R) 18-0-0 to 21-7-3, Exterior(2N) 21-7-3 to 37-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60		
WEBS	1 Row at midpt 12-33, 11-34, 10-35, 13-32, 14-31			
<b>REACTIONS</b> (size)				
24=36-0-0, 25=36-0-0, 26=36-0-0, 27=36-0-0, 28=36-0-0, 29=36-0-0, 30=36-0-0, 31=36-0-0, 32=36-0-0, 33=36-0-0, 34=36-0-0, 35=36-0-0, 36=36-0-0, 37=36-0-0, 38=36-0-0, 39=36-0-0, 40=36-0-0, 41=36-0-0, 42=36-0-0				
Max Horiz	42=-195 (LC 14)			
Max Uplift	24=-34 (LC 13), 25=-56 (LC 17), 27=-13 (LC 17), 28=-10 (LC 17), 29=-11 (LC 17), 30=-10 (LC 17), 31=-15 (LC 17), 34=-1 (LC 16), 35=-14 (LC 16), 36=-10 (LC 16), 37=-11 (LC 16), 38=-10 (LC 16), 39=-14 (LC 16), 41=-73 (LC 13), 42=-74 (LC 12)			
Max Grav	24=315 (LC 117), 25=328 (LC 116), 26=334 (LC 115), 27=333 (LC 114), 28=333 (LC 113), 29=333 (LC 112), 30=333 (LC 111), 31=333 (LC 110), 32=334 (LC 109), 33=329 (LC 108), 34=334 (LC 107), 35=333 (LC 106), 36=333 (LC 105), 37=333 (LC 104), 38=333 (LC 103), 39=333 (LC 102), 40=334 (LC 101), 41=328 (LC 100), 42=315 (LC 99)			

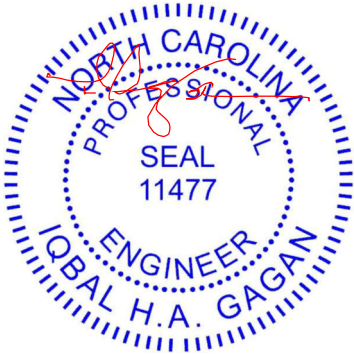


February 11,2025


Job	Truss	Truss Type	Qty	Ply	Malbec	I71314894
	A2G	Common Supported Gable	3	1	Job Reference (optional)	

- 12) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) All bearings are assumed to be SP No.2 .
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 42, 34 lb uplift at joint 24, 1 lb uplift at joint 34, 14 lb uplift at joint 35, 10 lb uplift at joint 36, 11 lb uplift at joint 37, 10 lb uplift at joint 38, 14 lb uplift at joint 39, 73 lb uplift at joint 41, 15 lb uplift at joint 31, 10 lb uplift at joint 30, 11 lb uplift at joint 29, 10 lb uplift at joint 28, 13 lb uplift at joint 27 and 56 lb uplift at joint 25.
- 15) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 16) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



February 11,2025

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacomponents.com](http://www.sbcacomponents.com))

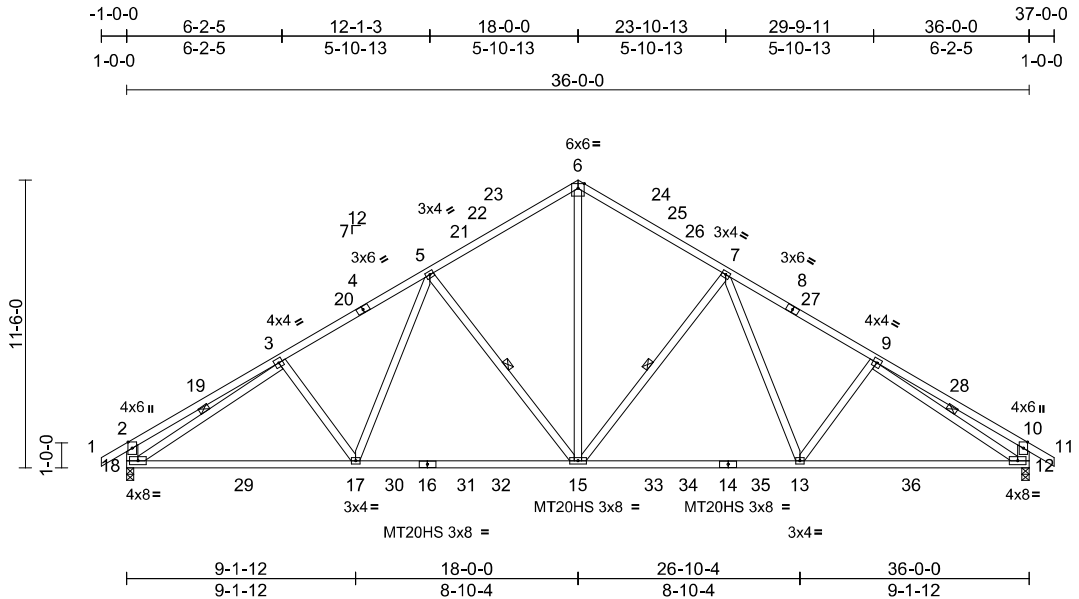
**ENGINEERING BY**  
**TRENCO**  
A MiTek Affiliate  
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Malbec	I71314895
	A2	Common	9	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

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Page: 1



<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.36	15-17	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.50	15-17	>845	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.08	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	15-17	>999	240		
BCDL	10.0										Weight: 225 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP SS  
WEBS 2x4 SP No.3 \*Except\* 18-2,12-10:2x6 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 7-15, 5-15, 3-18, 9-12

**REACTIONS**  
(size) 12=0-3-8, 18=0-3-8  
Max Horiz 18=-196 (LC 14)  
Max Grav 12=1696 (LC 35), 18=1696 (LC 34)

**FORCES**  
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/51, 2-3=-721/76, 3-5=-2474/107, 5-6=-1860/154, 6-7=-1860/154, 7-9=-2474/107, 9-10=-721/76, 10-11=0/51, 12-18=-585/84, 10-12=-585/84  
BOT CHORD 17-18=-8/2095, 15-17=0/1844, 13-15=0/1843, 12-13=0/2091  
WEBS 6-15=-52/1447, 7-15=-675/103, 7-13=0/487, 9-13=-204/106, 5-15=-675/103, 5-17=0/487, 3-17=-204/106, 3-18=-1945/36, 9-12=-1945/36

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-7-3, Interior (1) 2-7-3 to 18-0-0, Exterior(2R) 18-0-0 to 21-7-3, Interior (1) 21-7-3 to 37-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10  
4) Unbalanced snow loads have been considered for this design.  
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.  
6) All plates are MT20 plates unless otherwise indicated.  
7) Plates checked for a plus or minus 5 degree rotation about its center.  
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.  
10) All bearings are assumed to be SP SS .  
11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.  
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard



February 11,2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

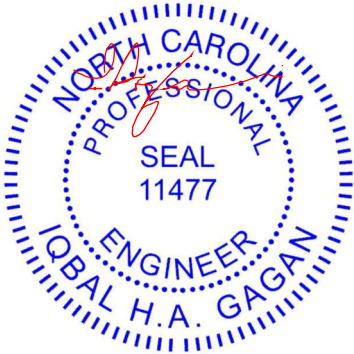
ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate  
818 Soundside Road  
Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Malbec	I71314896
	A1SG	Piggyback Base Structural Gable	2	1	Job Reference (optional)	

- 17) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 18) 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



February 11,2025



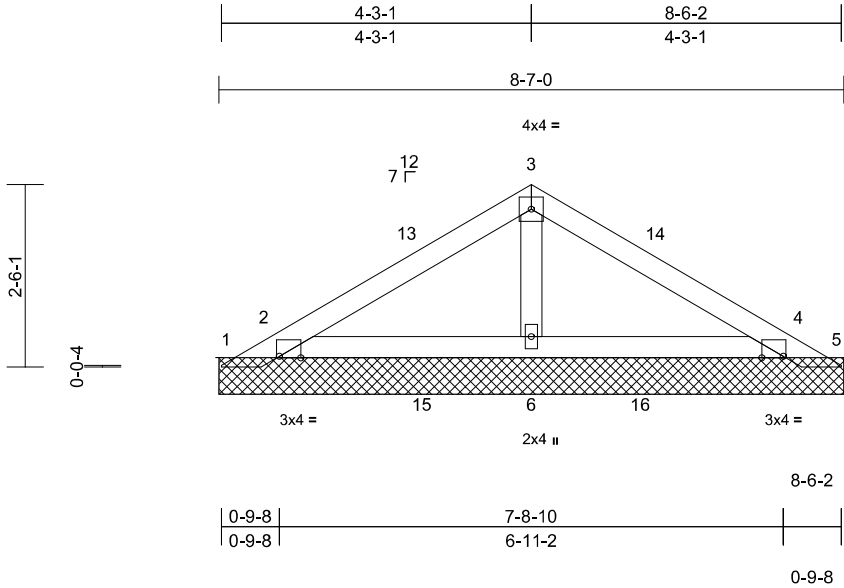


Job	Truss	Truss Type	Qty	Ply	Malbec	I71314898
	PB1	Piggyback	30	1	Job Reference (optional)	

Structural, LLC, Thurmont, MD - 21788,

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Page: 1



Scale = 1:30.8

Plate Offsets (X, Y): [2:0-3-9,Edge], [4:0-3-9,Edge]												
<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.52	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	10	n/a	n/a		
BCLL	0.0 *	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 28 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS** (size) 1=8-7-0, 2=8-7-0, 4=8-7-0, 5=8-7-0, 6=8-7-0  
Max Horiz 1=37 (LC 13)  
Max Uplift 1=-303 (LC 46), 2=-20 (LC 16), 4=-22 (LC 17), 5=-300 (LC 47)  
Max Grav 1=186 (LC 44), 2=573 (LC 46), 4=559 (LC 47), 5=189 (LC 56), 6=366 (LC 63)

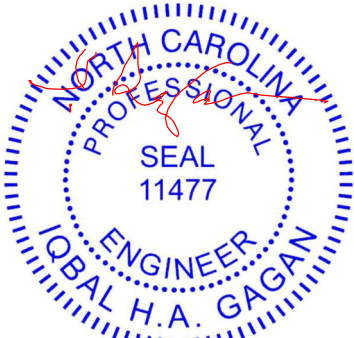
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-42/164, 2-3=-139/138, 3-4=-139/137, 4-5=-32/163  
BOT CHORD 2-6=-128/47, 4-6=-128/47  
WEBS 3-6=-250/21

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 4-3-8, Exterior(2R) 4-3-8 to 7-3-8, Interior (1) 7-3-8 to 8-3-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60  
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10  
5) Unbalanced snow loads have been considered for this design.  
6) Plates checked for a plus or minus 5 degree rotation about its center.  
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) All bearings are assumed to be SP No.3 .  
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 303 lb uplift at joint 1 and 300 lb uplift at joint 5.  
13) N/A

- 14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.  
15) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.  
16) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



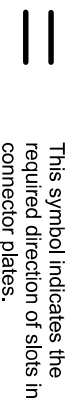
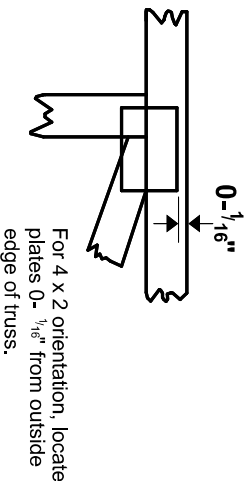
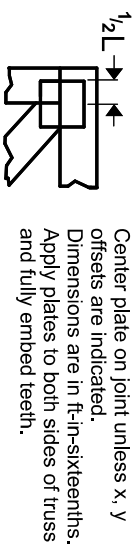
February 11,2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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

# Symbols

## PLATE LOCATION AND ORIENTATION



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

## PLATE SIZE

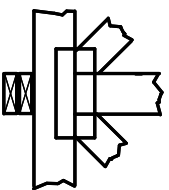
4 X 4

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

## LATERAL BRACING LOCATION



## BEARING



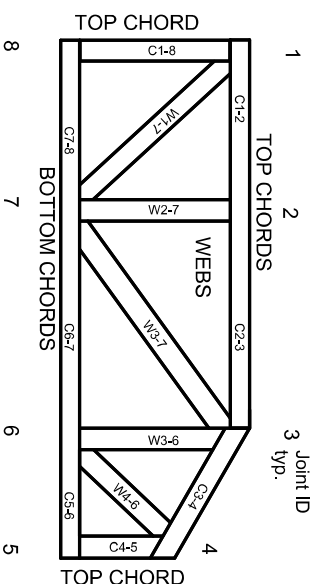
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-22: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling  
Installing, Restraining & 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-1988, ESR-2362, ESR-2685, ESR-3282  
ESR-4722, ESL-1388

## Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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# General Safety Notes

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

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.