

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: Glades - French Country - 52 PCR - Roof  
Mattamy; Glades - Lot 52 Providence Creek

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: I58637544 thru I58637582

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

North Carolina COA: C-0844



May 31,2023

Gilbert, Eric

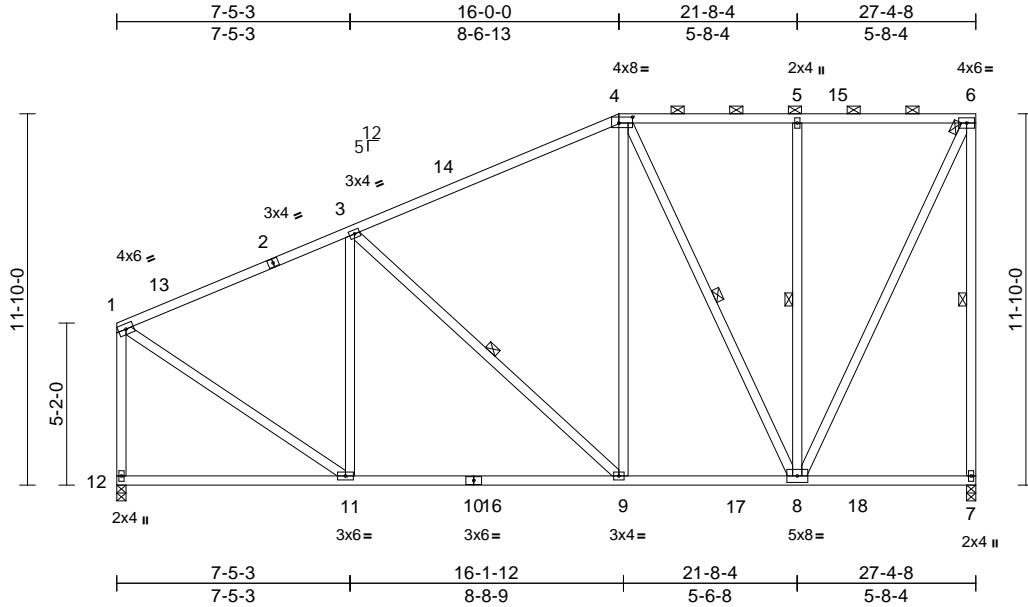
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), 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 Glades - French	Truss A01	Truss Type Piggyback Base	Qty 6	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	I58637544
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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. Tue May 30 16:11:50  
ID:xW4U3oycfk5?UnMst7UmFSzqBvc-RfC?PsB70Hq3NSgPqnL8w3uTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:73.4

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

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	0.93	Vert(LL)	-0.16	9-11	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.29	9-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 219 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 5-8, 6-7, 3-9, 4-8

**REACTIONS**

(size) 7=0-3-8, 12=0-3-8  
 Max Horiz 12=211 (LC 13)  
 Max Uplift 7=-85 (LC 13), 12=-21 (LC 16)  
 Max Grav 7=1327 (LC 36), 12=1312 (LC 35)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-3=-1135/109, 3-4=-917/113, 4-5=-502/81, 5-6=-502/81, 1-12=-1251/93  
 BOT CHORD 11-12=-286/146, 9-11=-263/977, 8-9=-141/715, 7-8=0/0  
 WEBS 3-11=-467/130, 4-9=-24/492, 5-8=-667/119, 6-7=-1248/211, 6-8=-188/1161, 3-9=-392/166, 4-8=-636/134, 1-11=-35/1147

**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

- \*\* 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 21 lb uplift at joint 12 and 85 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
 Uniform Loads (lb/ft)  
 Vert: 1-4=-52, 4-6=-60, 7-12=-20



May 31, 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



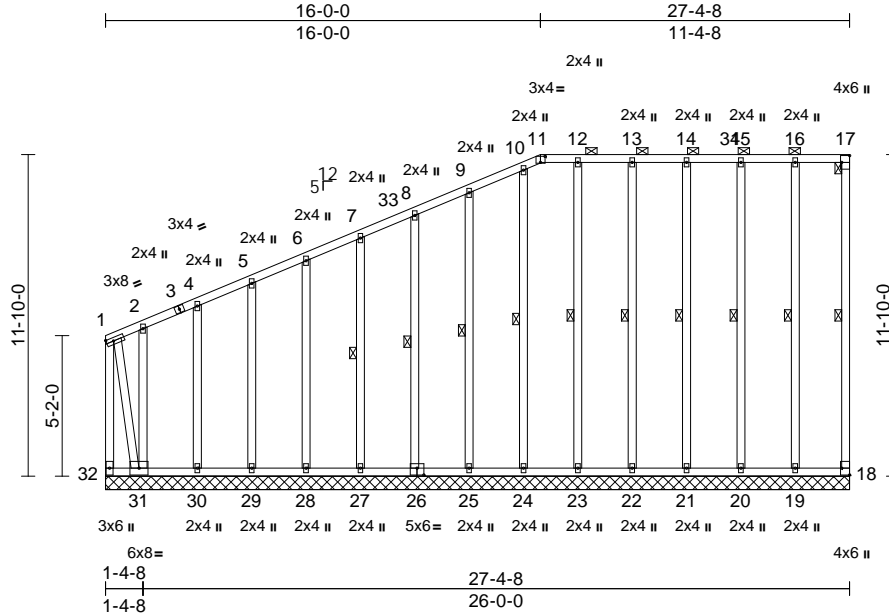
818 Soundside Road  
 Edenton, NC 27932

Job Glades - French	Truss A01G	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637545
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



Scale = 1:84.8

Plate Offsets (X, Y): [11:0-2-0,0-2-11], [17:Edge,0-3-8], [18:Edge,0-3-8], [26:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.30	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horiz(TL)	-0.01	18	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 295 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 17-18:2x4 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.): 11-17.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-9-11 oc bracing: 31-32.
WEBS	1 Row at midpt 17-18, 16-19, 15-20, 14-21, 13-22, 12-23, 10-24, 9-25, 8-26, 7-27

REACTIONS	(size)
Max Horiz	18=27-4-8, 19=27-4-8, 20=27-4-8, 21=27-4-8, 22=27-4-8, 23=27-4-8, 24=27-4-8, 25=27-4-8, 26=27-4-8, 27=27-4-8, 28=27-4-8, 29=27-4-8, 30=27-4-8, 31=27-4-8, 32=27-4-8
Max Uplift	32=354 (LC 13)
Max Grav	18=18 (LC 13), 19=25 (LC 12), 20=24 (LC 13), 21=17 (LC 12), 22=14 (LC 12), 23=23 (LC 13), 24=27 (LC 13), 25=28 (LC 16), 26=24 (LC 16), 27=21 (LC 16), 28=24 (LC 16), 29=20 (LC 16), 30=36 (LC 16), 31=1042 (LC 13), 32=8 (LC 14)
	18=92 (LC 34), 19=249 (LC 34), 20=240 (LC 34), 21=239 (LC 34), 22=241 (LC 34), 23=236 (LC 34), 24=195 (LC 35), 25=226 (LC 35), 26=222 (LC 35), 27=224 (LC 35), 28=223 (LC 35), 29=221 (LC 35), 30=233 (LC 35), 31=180 (LC 35), 32=1149 (LC 13)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-32=-1634/1000, 1-2=-295/170, 2-4=-311/190, 4-5=-260/166, 5-6=-235/159, 6-7=-203/147, 7-8=-175/138, 8-9=-154/126, 9-10=-149/137, 10-11=-134/142, 11-12=-130/144, 12-13=-130/144, 13-14=-130/144, 14-15=-130/144, 15-16=-130/144, 16-17=-130/144, 17-18=-114/119
BOT CHORD	31-32=-431/313, 30-31=-130/144, 29-30=-130/144, 28-29=-130/144, 27-28=-130/144, 25-27=-131/144, 24-25=-131/144, 23-24=-131/144, 22-23=-131/144, 21-22=-131/144, 20-21=-131/144, 19-20=-131/144, 18-19=-131/144
WEBS	16-19=-207/98, 15-20=-201/54, 14-21=-199/39, 13-22=-201/43, 12-23=-196/51, 10-24=-154/78, 9-25=-188/61, 8-26=-182/61, 7-27=-183/54, 6-28=-183/58, 5-29=-182/52, 4-30=-190/108, 2-31=-133/53, 1-31=-1011/1618

- 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= 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.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



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Continued on page 2

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy; Glades - Lot 52 Providence Creek
Glades - French	A01G	Piggyback Base Supported Gable	1	1	I58637545
					Job Reference (optional)

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

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Page: 2

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 32, 18 lb uplift at joint 18, 25 lb uplift at joint 19, 24 lb uplift at joint 20, 17 lb uplift at joint 21, 14 lb uplift at joint 22, 23 lb uplift at joint 23, 27 lb uplift at joint 24, 28 lb uplift at joint 25, 24 lb uplift at joint 26, 21 lb uplift at joint 27, 24 lb uplift at joint 28, 20 lb uplift at joint 29, 36 lb uplift at joint 30 and 1042 lb uplift at joint 31.
- 14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
 Uniform Loads (lb/ft)  
 Vert: 1-11=-52, 11-17=-60, 18-32=-20

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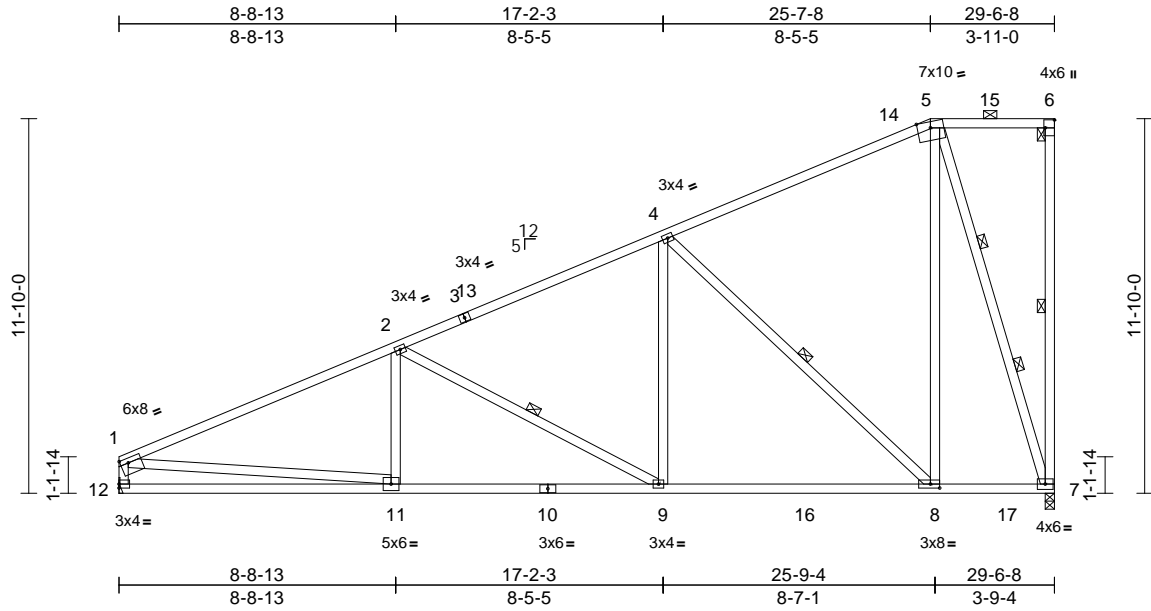
818 Soundside Road  
 Edenton, NC 27932

Job Glades - French	Truss A02	Truss Type Piggyback Base	Qty 6	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637546
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



Scale = 1:72.8

Plate Offsets (X, Y): [1:0-3-0,0-1-12], [6:Edge,0-3-8], [8:0-3-8,0-1-8]

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	0.88	Vert(LL)	-0.18	8-9	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.33	8-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 204 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP SS \*Except\* 5-6:2x4 SP No.2, 1-3:2x4 SP No.1  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3 \*Except\* 6-7:2x4 SP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.  
 BOT CHORD Rigid ceiling directly applied or 7-9-1 oc bracing.

WEBS 1 Row at midpt 6-7, 2-9, 4-8  
 WEBS 2 Rows at 1/3 pts 5-7

**REACTIONS**

(size) 7=0-3-8, 12= Mechanical  
 Max Horiz 12=370 (LC 13)  
 Max Uplift 7=102 (LC 16), 12=56 (LC 16)  
 Max Grav 7=1335 (LC 35), 12=1256 (LC 35)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-2158/210, 2-4=-1601/199, 4-5=-626/164, 5-6=-129/143, 6-7=-169/62, 1-12=-1173/164  
 BOT CHORD 11-12=-557/515, 9-11=-468/1922, 8-9=-315/1382, 7-8=-150/429  
 WEBS 2-11=-3/246, 2-9=-662/174, 4-9=0/582, 4-8=-1321/226, 5-8=-108/1074, 5-7=-1379/229, 1-11=-75/1650

**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) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 7 and 56 lb uplift at joint 12.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
 Uniform Loads (lb/ft)  
 Vert: 1-5=-52, 5-6=-60, 7-12=-50



May 31, 2023

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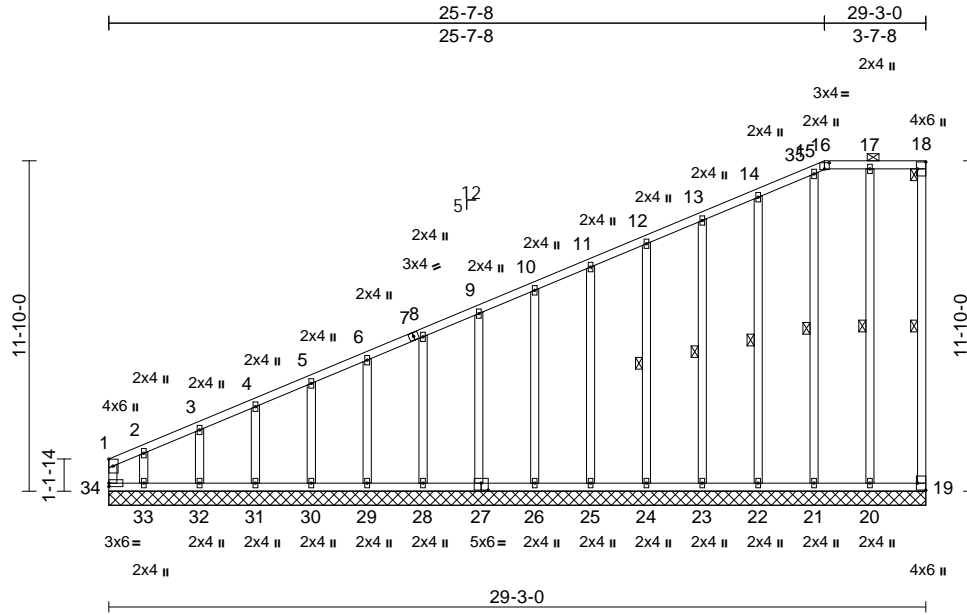


Job Glades - French	Truss A02G	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637547
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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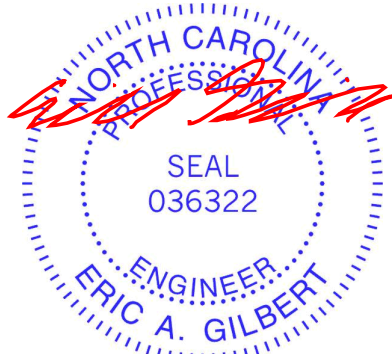
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Plate Offsets (X, Y): [16:0-2-0,0-2-11], [18:Edge,0-3-8], [19:Edge,0-3-8], [27:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.33	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	-0.01	19	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 243 lb	FT = 20%

LUMBER	TOP CHORD	1-34=-376/182, 1-2=-543/277, 2-3=-434/226, 3-4=-412/219, 4-5=-380/208, 5-6=-351/198, 6-8=-320/187, 8-9=-291/177, 9-10=-260/167, 10-11=-231/157, 11-12=-200/146, 12-13=-170/136, 13-14=-156/125, 14-15=-147/140, 15-16=-137/146, 16-17=-129/143, 17-18=-129/143, 18-19=-118/121	4)
TOP CHORD	2x4 SP No.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= 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
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3 *Except* 18-19:2x4 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.): 16-18.	5) Roof design snow load has been reduced to account for slope.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		6) Unbalanced snow loads have been considered for this design.
WEBS	1 Row at midpt 18-19, 17-20, 15-21, 14-22, 13-23, 12-24		7) Provide adequate drainage to prevent water ponding.
REACTIONS	(size)	19=29-3-0, 20=29-3-0, 21=29-3-0, 22=29-3-0, 23=29-3-0, 24=29-3-0, 25=29-3-0, 26=29-3-0, 27=29-3-0, 28=29-3-0, 29=29-3-0, 30=29-3-0, 31=29-3-0, 32=29-3-0, 33=29-3-0, 34=370 (LC 13)	8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
Max Horiz			9) Gable studs spaced at 2-0-0 oc.
Max Uplift			10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
Max Grav			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.

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.



May 31, 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.**

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

818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy; Glades - Lot 52 Providence Creek
Glades - French	A02G	Piggyback Base Supported Gable	1	1	I58637547
					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. Tue May 30 16:11:53  
 ID:u3t6oXSfKe3aFXvNRxlAGWzIYDu-RfC?PsB70Hq3NSgPqnl8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 19, 15 lb uplift at joint 20, 40 lb uplift at joint 21, 32 lb uplift at joint 22, 21 lb uplift at joint 23, 23 lb uplift at joint 24, 23 lb uplift at joint 25, 22 lb uplift at joint 26, 25 lb uplift at joint 27, 20 lb uplift at joint 28, 24 lb uplift at joint 29, 21 lb uplift at joint 30, 30 lb uplift at joint 31 and 312 lb uplift at joint 33.
- 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.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
 Uniform Loads (lb/ft)  
 Vert: 1-16=-52, 16-18=-60, 19-34=-20

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

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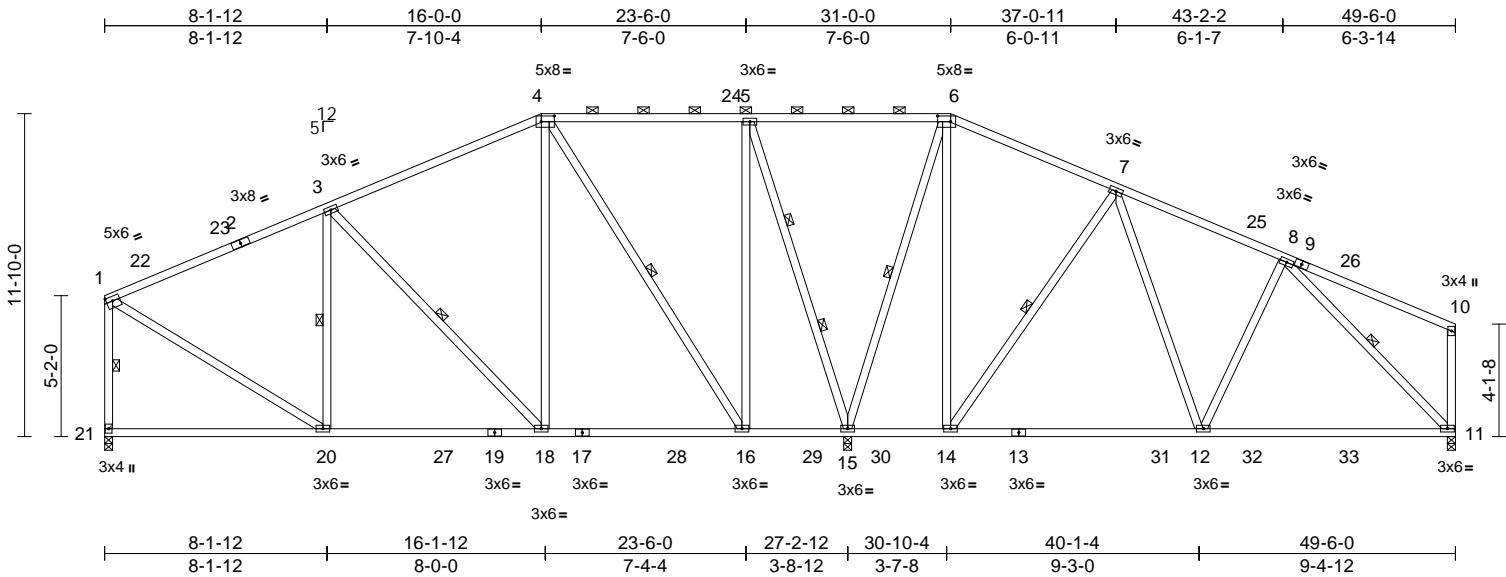
Job Glades - French	Truss A03	Truss Type Piggyback Base	Qty 3	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637548
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 30 16:11:54

Page: 1

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Scale = 1:84.4

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

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	0.99	Vert(LL)	-0.22	12-14	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.35	12-14	>753	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.04	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 363 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2 \*Except\* 4-6:2x4 SP SS, 2-4:2x4 SP No.1

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 \*Except\* 3-20,16-4:2x4 SP No.2

**BRACING**

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 12-14,11-12.

WEBS 1 Row at midpt 6-15, 1-21, 3-20, 4-16, 3-18, 7-14, 8-11

WEBS 2 Rows at 1/3 pts 5-15

**REACTIONS** (size) 11=0-3-8, 15=0-3-8, 21=0-3-8  
 Max Horiz 21=132 (LC 12)  
 Max Uplift 11=38 (LC 17), 15=83 (LC 13), 21=63 (LC 16)  
 Max Grav 11=911 (LC 44), 15=2412 (LC 44), 21=1177 (LC 38)

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

TOP CHORD 1-3=-1019/143, 3-4=-737/184, 4-5=-264/170, 5-6=0/320, 6-7=-218/151, 7-8=-804/166, 8-10=-111/106, 10-11=-174/92, 1-21=-1105/155

BOT CHORD 20-21=-111/152, 18-20=-79/853, 16-18=0/586, 15-16=-8/289, 14-15=-40/181, 12-14=-5/527, 11-12=-68/675

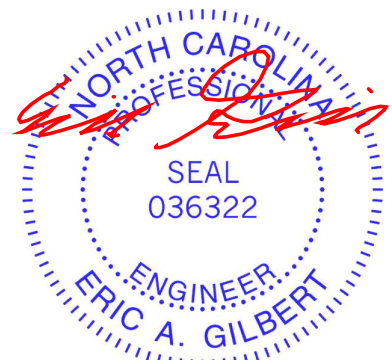
WEBS 4-18=-11/613, 5-16=-9/949, 5-15=-1486/175, 6-15=-1245/139, 6-14=-48/920, 3-20=-331/154, 8-12=-117/147, 4-16=-872/105, 3-18=-507/144, 7-14=-822/172, 7-12=-11/427, 8-11=-927/64, 1-20=-88/964

- 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; BC DL=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 83 lb uplift at joint 15, 63 lb uplift at joint 21 and 38 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.

Uniform Loads (lb/ft)  
 Vert: 1-4=-52, 4-6=-60, 6-10=-52, 11-21=-20

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

**NOTES**



May 31, 2023

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

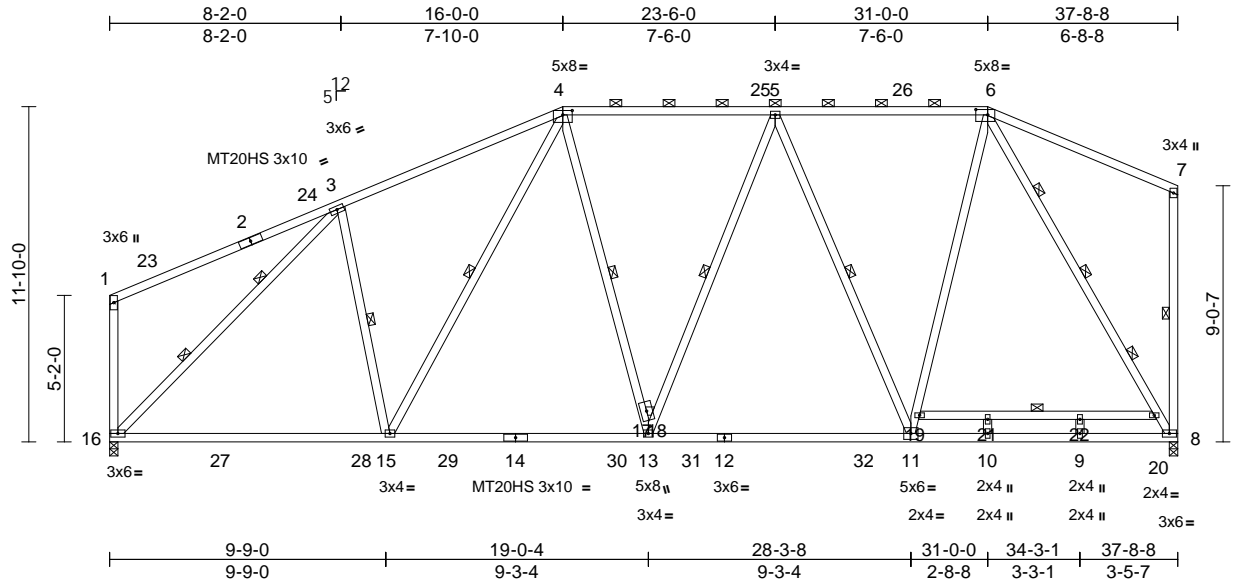


Job Glades - French	Truss A04A	Truss Type Piggyback Base	Qty 2	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637549
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



Scale = 1:81.3

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

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	0.82	Vert(LL)	-0.26	11-13	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.45	15-16	>996	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 287 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP SS \*Except\* 1-2:2x4 SP No.2, 6-7:2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.3 \*Except\* 8-6:2x4 SP SS, 16-3,15-4,13-5,11-5,11-6,19-20:2x4 SP No.2

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-7 max.): 4-6.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 7-8, 3-15, 4-15, 4-13, 5-13, 5-11, 19-20  
WEBS 2 Rows at 1/3 pts 3-16  
WEBS 3 Rows at 1/4 pts 6-8

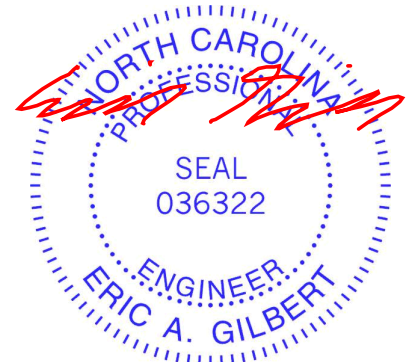
**REACTIONS**  
(size) 8=0-3-8, 16=0-3-8  
Max Horiz 16=260 (LC 13)  
Max Uplift 8=-86 (LC 13), 16=-26 (LC 16)  
Max Grav 8=1884 (LC 37), 16=1794 (LC 44)

**FORCES**  
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-3=-153/139, 3-4=-1737/292, 4-5=-1511/270, 5-6=-1184/248, 6-7=-174/182, 7-8=-301/140, 1-16=-267/117  
BOT CHORD 15-16=-357/1448, 13-15=-276/1427, 11-13=-247/1492, 10-11=-176/1014, 9-10=-176/1014, 8-9=-176/1014  
WEBS 3-15=-19/573, 6-20=-1788/230, 8-20=-1950/221, 3-16=-2014/201, 4-15=-226/266, 4-17=-72/384, 13-17=-73/383, 13-18=-145/343, 5-18=-145/346, 5-11=-805/165, 11-19=-45/1157, 6-19=-50/1242, 17-18=0/10, 19-21=-120/7, 21-22=-120/7, 20-22=-120/7, 10-21=-135/13, 9-22=-34/48

**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
- \*\* 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.
- All plates are MT20 plates unless otherwise indicated.
- 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 26 lb uplift at joint 16 and 86 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-4=-52, 4-6=-60, 6-7=-52, 8-16=-20, 19-21=-40 (F), 21-22=-40 (F), 20-22=-40 (F)



May 31, 2023

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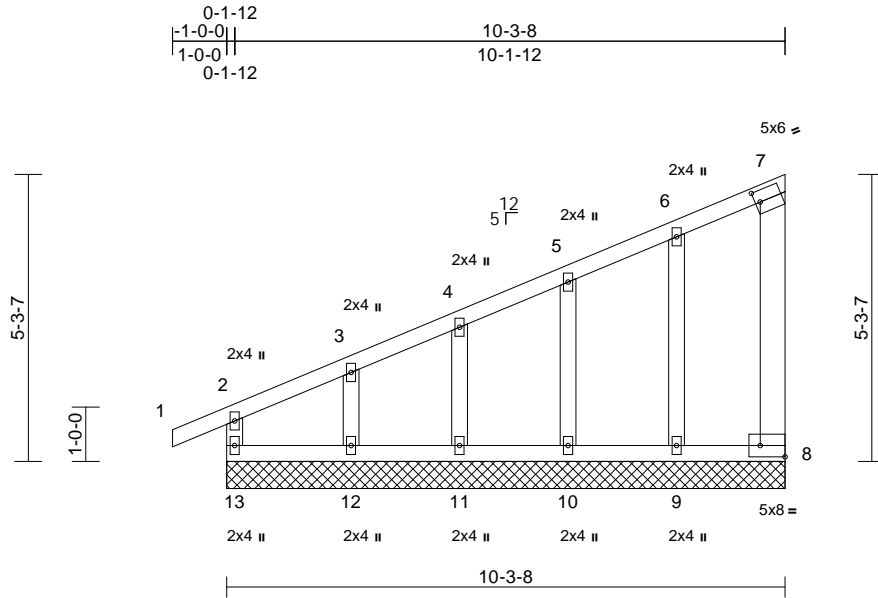
818 Soundside Road  
Edenton, NC 27932

Job Glades - French	Truss A04G	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637550
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



Scale = 1:42.5

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

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	0.82	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 61 lb	FT = 20%

**LUMBER**

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x6 SP No.2 *Except* 2-13:2x4 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, Except: 2-2-0 oc bracing: 8-9.

**REACTIONS**

(size)	8=10-3-8, 9=10-3-8, 10=10-3-8, 11=10-3-8, 12=10-3-8, 13=10-3-8
Max Horiz	13=157 (LC 15)
Max Uplift	8=-374 (LC 13), 10=-113 (LC 16), 11=-3 (LC 16), 12=-23 (LC 16), 13=-40 (LC 12)
Max Grav	8=63 (LC 23), 9=499 (LC 13), 10=163 (LC 23), 11=160 (LC 2), 12=160 (LC 2), 13=187 (LC 22)

**FORCES**

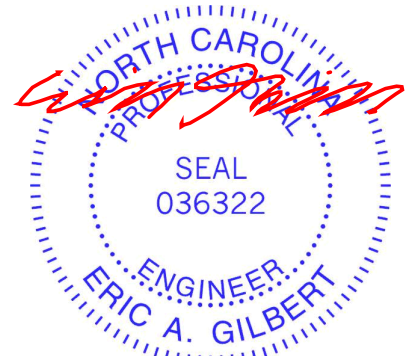
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/44, 2-3=-29/56, 3-4=-33/87, 4-5=-42/119, 5-6=-70/174, 6-7=-63/114, 7-8=-172/303
BOT CHORD	12-13=-263/159, 11-12=-263/159, 10-11=-263/159, 9-10=-263/159, 8-9=-263/159
WEBS	6-9=-351/130, 5-10=-124/149, 4-11=-122/161, 3-12=-112/69, 2-13=-170/106

**NOTES**

- 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.
- 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 40 lb uplift at joint 13, 374 lb uplift at joint 8, 113 lb uplift at joint 10, 3 lb uplift at joint 11 and 23 lb uplift at joint 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



May 31, 2023

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818 Soundside Road  
Edenton, NC 27932

Job Glades - French	Truss A05A	Truss Type Piggyback Base	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637551
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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. Tue May 30 16:11:56  
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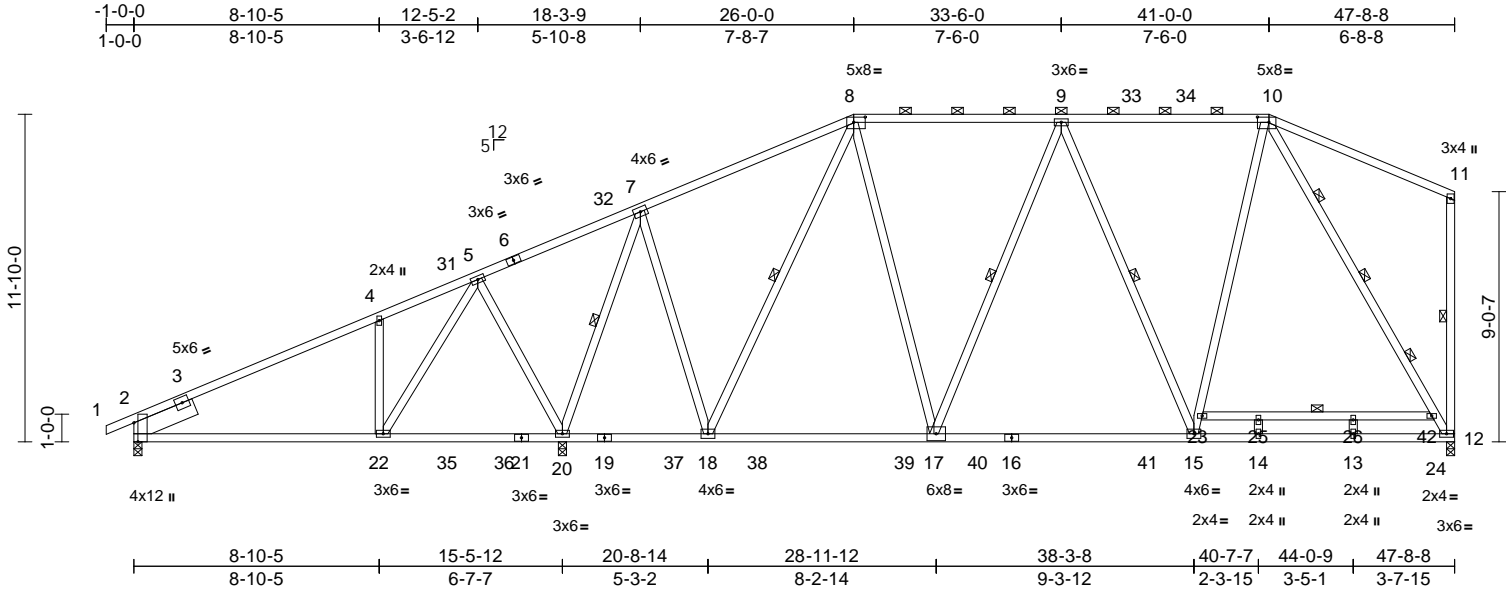


Plate Offsets (X, Y): [2:0-8-3,Edge], [8:0-5-0,0-2-4], [10:0-5-0,0-2-4]

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	0.93	Vert(LL)	-0.26	15-17	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.40	13-14	>962	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.05	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 341 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.1 \*Except\* 8-10:2x4 SP SS  
BOT CHORD 2x4 SP No.2 \*Except\* 16-12,19-16:2x4 SP No.1  
WEBS 2x4 SP No.3 \*Except\*  
12-11,23-24,8-18,9-17:2x4 SP No.2,  
12-10:2x4 SP No.1  
SLIDER Left 2x8 SP DSS -- 2-5-0

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-10-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-5-0 max.): 8-10.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
8-9-11 oc bracing: 2-22  
9-11-10 oc bracing: 20-22.

WEBS 1 Row at midpt 11-12, 23-24, 9-15, 8-18, 9-17, 7-20

WEBS 3 Rows at 1/4 pts 10-12

**REACTIONS** (size) 2=0-3-8, 12=0-3-8, 20=0-3-8  
Max Horiz 2=279 (LC 15)  
Max Uplift 2=-88 (LC 16), 12=-86 (LC 13)  
Max Grav 2=745 (LC 54), 12=1676 (LC 38), 20=2126 (LC 45)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/38, 2-4=-815/210, 4-5=-878/297, 5-7=-197/217, 7-8=-908/324, 8-9=-1134/290, 9-10=-1011/257, 10-11=-175/182, 11-12=-302/140  
BOT CHORD 2-22=-509/752, 20-22=-343/399, 18-20=-305/570, 17-18=-251/995, 15-17=-231/1236, 14-15=-168/896, 13-14=-168/896, 12-13=-168/896

**WEBS** 15-23=-30/936, 10-23=-37/1005, 10-24=-1561/214, 12-24=-1711/206, 23-25=-112/7, 25-26=-112/7, 9-15=-587/152, 8-18=-706/0, 9-17=-357/91, 8-17=0/614, 4-22=-402/193, 5-22=-135/680, 5-20=-619/150, 7-20=-1553/100, 7-18=0/922, 14-25=-140/10, 13-26=-38/48

- 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
  - \*\* 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.
  - 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.
  - 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 88 lb uplift at joint 2 and 86 lb uplift at joint 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-8=-52, 8-10=-60, 10-11=-52, 12-27=-20, 23-25=-40 (F), 25-26=-40 (F), 26-42=-40 (F)



May 31, 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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



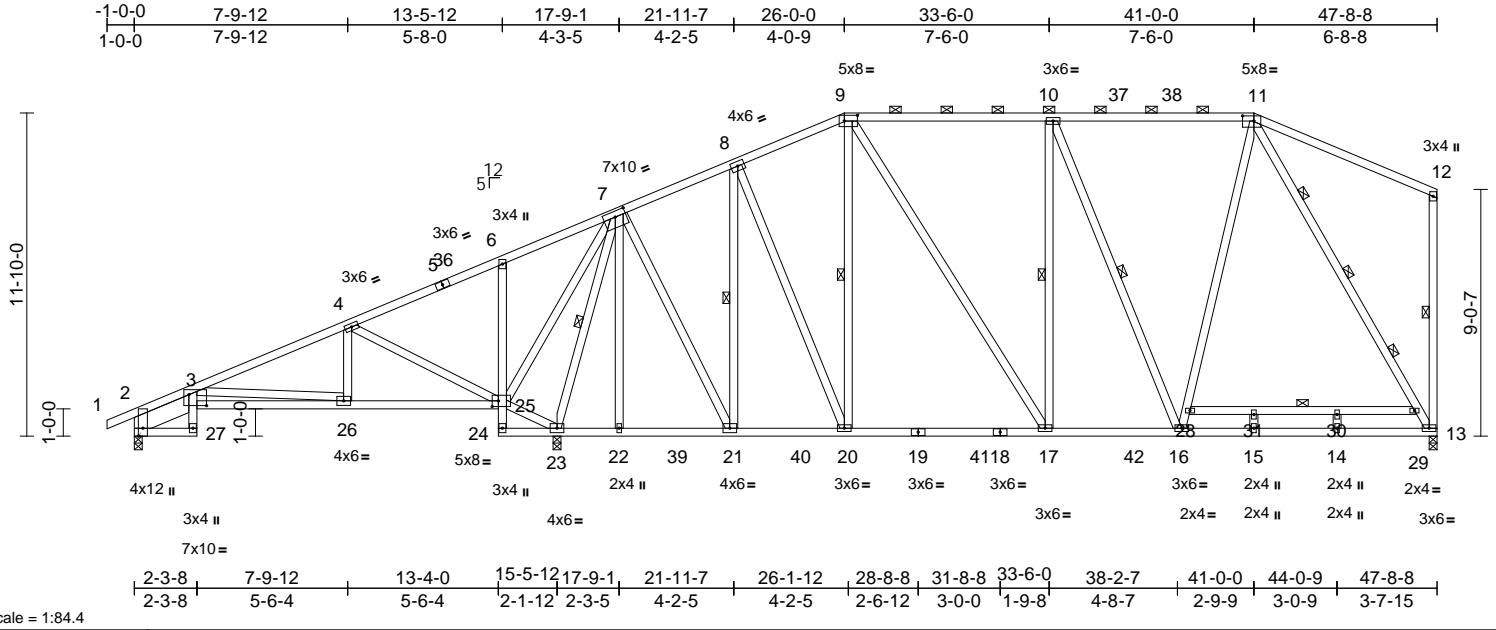
818 Soundside Road  
Edenton, NC 27932

Job Glades - French	Truss A05AV	Truss Type Piggyback Base	Qty 2	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637552
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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. Tue May 30 16:11:56  
ID:uStDOJ0HX2Vw7s8kFAD8fzrC27-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:84.4

Plate Offsets (X, Y): [3:0-7-12,0-4-13], [7:0-4-12,0-2-8], [9:0-5-12,0-2-8], [11:0-5-0,0-2-4], [25:0-2-12,0-2-8]

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	0.82	Vert(LL)	-0.20	14-15	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.48	14-15	>809	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.10	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 402 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2 *Except* 9-11:2x4 SP SS, 11-12:2x4 SP No.1
BOT CHORD	2x4 SP No.2 *Except* 27-3:2x4 SP No.3, 3-25,6-24:2x4 SP SS
WEBS	2x4 SP No.3 *Except* 11-13:2x4 SP No.1, 28-29:2x4 SP No.2
SLIDER	Left 2x8 SP DSS -- 2-3-13
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-9 max.): 9-11.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 9-20, 10-16, 12-13, 10-17, 28-29, 7-23, 8-21
WEBS	3 Rows at 1/4 pts 11-13
REACTIONS	(size)
Max Horiz	2=279 (LC 15)
Max Uplift	13=52 (LC 12), 23=190 (LC 16)
Max Grav	2=255 (LC 31), 13=1536 (LC 38), 23=2768 (LC 39)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/38, 2-3=-362/208, 3-4=-431/475, 4-6=-497/1066, 6-7=-427/1069, 7-8=-570/112, 8-9=-843/183, 9-10=-1058/223, 10-11=-888/212, 11-12=-176/182, 12-13=-302/140, 2-27=-199/133, 3-27=-61/66, 3-26=-295/90, 25-26=-291/88, 24-25=-50/23, 6-25=-372/126, 23-24=-33/1, 22-23=-507/170, 21-22=-507/171, 20-21=-39/503, 17-20=-60/779, 16-17=-94/1058, 15-16=-103/761, 14-15=-103/761, 13-14=-103/761
BOT CHORD	

WEBS	
4-26=0/297, 4-25=-720/184, 9-20=-631/196, 10-16=-480/62, 10-17=-463/156, 9-17=-103/635, 11-29=-1384/89, 13-29=-1521/79, 28-31=-64/5, 30-31=-64/5, 29-30=-64/5, 16-28=0/734, 11-28=0/845, 7-21=-248/1325, 7-22=-1/112, 7-23=-2187/394, 7-25=-29/208, 23-25=-1111/279, 8-21=-1075/254, 8-20=-126/833, 14-30=-38/45, 15-31=-81/25	

- 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
  - \*\* 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.
  - 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.
  - 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 52 lb uplift at joint 13 and 190 lb uplift at joint 23.
- 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 1.1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-3=-52, 3-9=-52, 9-11=-60, 11-12=-52, 27-32=-20, 3-25=-20, 13-24=-20, 28-31=-40 (F), 30-31=-40 (F), 29-30=-40(F)



May 31, 2023

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

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

818 Soundside Road  
Edenton, NC 27932

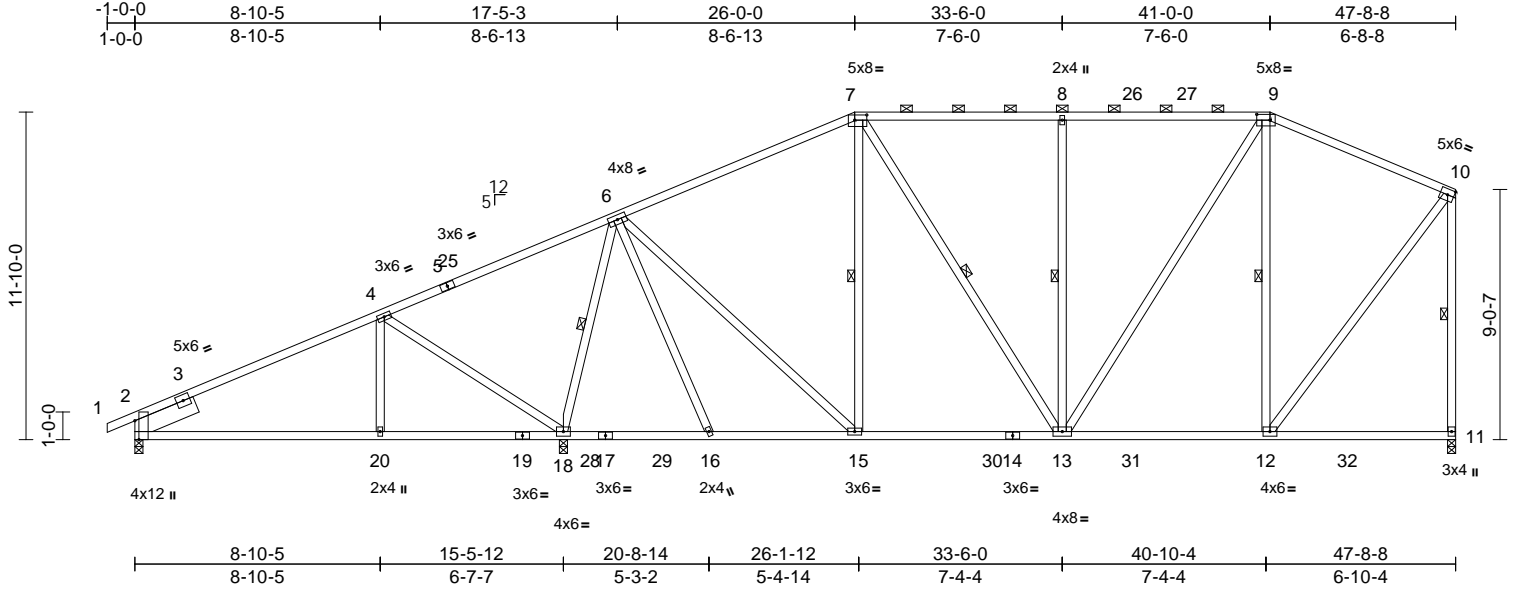


Job Glades - French	Truss A06	Truss Type Piggyback Base	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637553
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



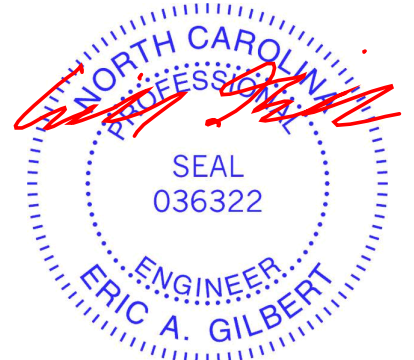
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Plate Offsets (X, Y): [2:0-8-3,Edge], [7:0-5-4,0-2-4], [9:0-5-12,0-2-8]

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	0.99	Vert(LL)	0.07	20-23	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.21	20-23	>894	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.04	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 332 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.1 *Except* 5-7:2x4 SP SS, 1-5:2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 11-10:2x4 SP No.2
SLIDER	Left 2x8 SP DSS -- 2-5-0
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 7-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-10-12 oc bracing: 2-20 9-2-7 oc bracing: 18-20.
WEBS	1 Row at midpt 6-18, 7-15, 7-13, 8-13, 9-12, 10-11
REACTIONS	(size)
Max Horiz	2=279 (LC 15)
Max Uplift	2=-84 (LC 16), 11=-64 (LC 13), 18=-46 (LC 16)
Max Grav	2=711 (LC 54), 11=1470 (LC 44), 18=2094 (LC 39)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/38, 2-4=-759/203, 4-6=-183/192, 6-7=-1057/278, 7-8=-1150/282, 8-9=-1150/282, 9-10=-831/222, 10-11=-1344/208
BOT CHORD	2-20=-502/701, 18-20=-407/701, 16-18=-300/388, 15-16=-276/430, 13-15=-234/929, 12-13=-143/732, 11-12=-89/102
WEBS	4-20=0/323, 4-18=-750/169, 6-18=-1623/148, 6-16=0/210, 6-15=0/794, 7-15=-400/67, 7-13=-18/417, 8-13=-869/155, 9-13=-121/795, 9-12=-793/216, 10-12=-145/1208

- 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
  - \*\* 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.
  - 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.
  - 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 84 lb uplift at joint 2, 46 lb uplift at joint 18 and 64 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.

- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-7=-52, 7-9=-60, 9-10=-52, 11-21=-20



May 31, 2023

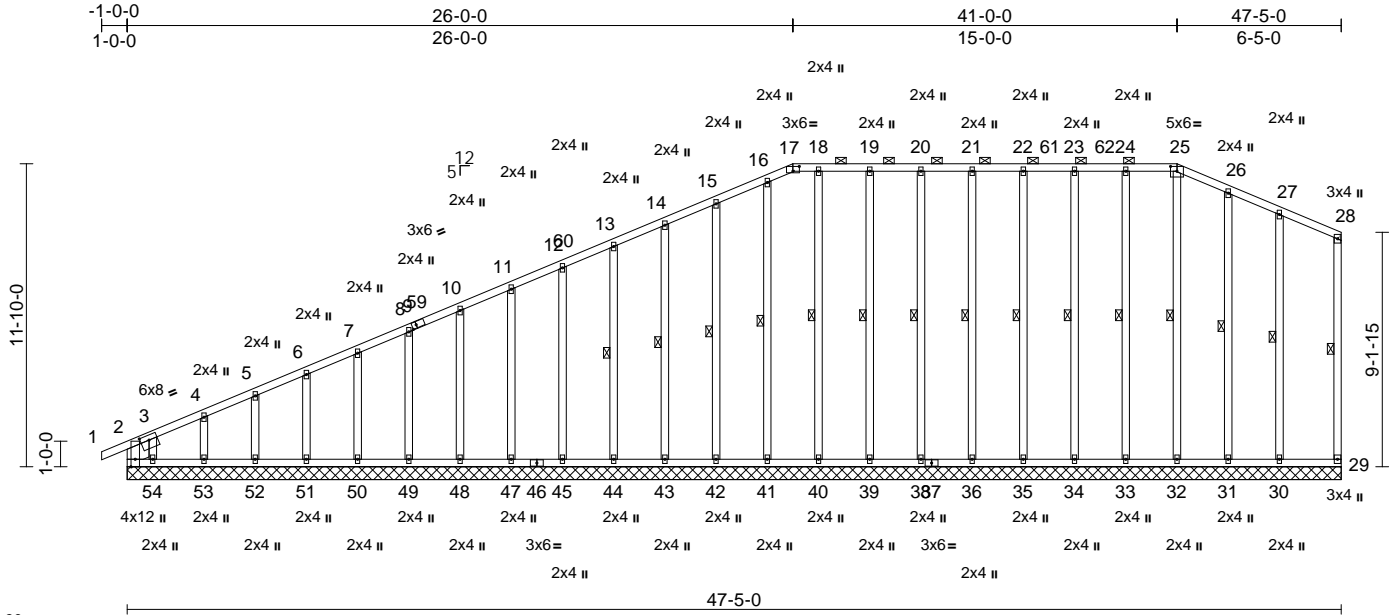


Job Glades - French	Truss A06G	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637554
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Page: 1

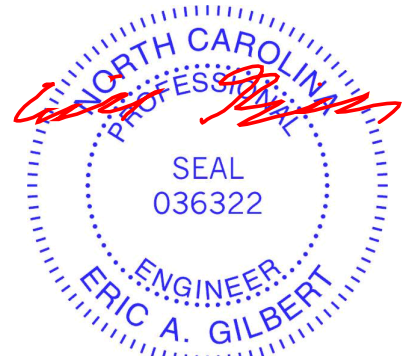


Scale = 1:90

Plate Offsets (X, Y): [3:0-4-0,0-2-4], [9:0-2-1,0-1-8], [17:0-3-0,0-2-4], [25:0-3-0,0-2-4]

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	0.62	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	-0.01	29	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 440 lb	FT = 20%

LUMBER		Max Uplift	29=-26 (LC 12), 30=-22 (LC 17), 31=-29 (LC 17), 32=-2 (LC 13), 33=-15 (LC 13), 34=-14 (LC 12), 35=-13 (LC 13), 36=-13 (LC 12), 38=-12 (LC 13), 39=-18 (LC 12), 40=-11 (LC 13), 42=-29 (LC 16), 43=-22 (LC 16), 44=-23 (LC 16), 45=-23 (LC 16), 47=-23 (LC 16), 48=-23 (LC 16), 49=-23 (LC 16), 50=-23 (LC 16), 51=-23 (LC 16), 52=-22 (LC 16), 53=-25 (LC 16), 54=-167 (LC 16)	TOP CHORD	1-2=0/38, 2-3=-176/101, 3-4=-334/174, 4-5=-301/162, 5-6=-272/151, 6-7=-242/141, 7-8=-212/130, 8-10=-181/120, 10-11=-151/109, 11-12=-123/99, 12-13=-113/93, 13-14=-112/123, 14-15=-122/153, 15-16=-135/186, 16-17=-133/193, 17-18=-125/193, 18-19=-125/193, 19-20=-125/193, 20-21=-125/193, 21-22=-125/193, 22-23=-125/193, 23-24=-125/193, 24-25=-125/193, 25-26=-139/199, 26-27=-124/165, 27-28=-131/153, 28-29=-120/117
TOP CHORD	2x4 SP No.2				
BOT CHORD	2x4 SP No.2				
WEBS	2x4 SP No.3				
OTHERS	2x4 SP No.3				
SLIDER	Left 2x8 SP DSS -- 1-0-15				
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.): 17-25.				
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.				
WEBS	1 Row at midpt	28-29, 25-32, 24-33, 23-34, 22-35, 21-36, 20-38, 19-39, 18-40, 16-41, 15-42, 14-43, 13-44, 26-31, 27-30	Max Grav	2=235 (LC 13), 29=108 (LC 39), 30=263 (LC 39), 31=225 (LC 39), 32=159 (LC 38), 33=252 (LC 38), 34=239 (LC 38), 35=240 (LC 38), 36=240 (LC 38), 38=239 (LC 38), 39=243 (LC 38), 40=224 (LC 38), 41=209 (LC 39), 42=226 (LC 39), 43=222 (LC 39), 44=223 (LC 39), 45=223 (LC 39), 47=223 (LC 39), 48=222 (LC 39), 49=160 (LC 39), 50=160 (LC 2), 51=160 (LC 54), 52=159 (LC 2), 53=163 (LC 54), 54=109 (LC 54), 55=235 (LC 13)	
REACTIONS (size)	2=47-5-0, 29=47-5-0, 30=47-5-0, 31=47-5-0, 32=47-5-0, 33=47-5-0, 34=47-5-0, 35=47-5-0, 36=47-5-0, 38=47-5-0, 39=47-5-0, 40=47-5-0, 41=47-5-0, 42=47-5-0, 43=47-5-0, 44=47-5-0, 45=47-5-0, 47=47-5-0, 48=47-5-0, 49=47-5-0, 50=47-5-0, 51=47-5-0, 52=47-5-0, 53=47-5-0, 54=47-5-0, 55=47-5-0				
FORCES	Max Horiz	2=283 (LC 15), 55=283 (LC 15)	(lb) - Maximum Compression/Maximum Tension		



May 31, 2023

Continued on page 2

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818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy; Glades - Lot 52 Providence Creek
Glades - French	A06G	Piggyback Base Supported Gable	1	1	I58637554
					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. Tue May 30 16:11:58  
ID:oP9Sw8SDPCzNmo9r2hecFhzrASh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f

Page: 2

BOT CHORD	2-54=-95/106, 53-54=-95/106, 52-53=-95/106, 51-52=-95/106, 50-51=-95/106, 49-50=-95/106, 48-49=-95/106, 47-48=-95/106, 45-47=-95/106, 44-45=-95/106, 43-44=-95/106, 42-43=-95/106, 41-42=-95/106, 40-41=-95/106, 39-40=-95/106, 38-39=-95/106, 36-38=-95/106, 35-36=-95/106, 34-35=-95/106, 33-34=-95/106, 32-33=-95/106, 31-32=-95/106, 30-31=-95/106, 29-30=-95/106	1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 1-17=-52, 17-25=-60, 25-28=-52, 29-55=-20
WEBS	25-32=-118/31, 24-33=-212/39, 23-34=-199/40, 22-35=-200/38, 21-36=-200/38, 20-38=-199/38, 19-39=-203/46, 18-40=-184/35, 16-41=-169/45, 15-42=-186/64, 14-43=-182/54, 13-44=-183/54, 12-45=-183/54, 11-47=-183/54, 10-48=-182/54, 8-49=-120/54, 7-50=-120/54, 6-51=-120/55, 5-52=-119/53, 4-53=-123/60, 3-54=-138/243, 26-31=-187/63, 27-30=-215/95	

#### 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= 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.
- 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.
- Provide adequate drainage to prevent water ponding.
- 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 26 lb uplift at joint 29, 2 lb uplift at joint 32, 15 lb uplift at joint 33, 14 lb uplift at joint 34, 13 lb uplift at joint 35, 13 lb uplift at joint 36, 12 lb uplift at joint 38, 18 lb uplift at joint 39, 11 lb uplift at joint 40, 29 lb uplift at joint 42, 22 lb uplift at joint 43, 23 lb uplift at joint 44, 23 lb uplift at joint 45, 23 lb uplift at joint 47, 23 lb uplift at joint 48, 23 lb uplift at joint 49, 23 lb uplift at joint 50, 23 lb uplift at joint 51, 22 lb uplift at joint 52, 25 lb uplift at joint 53, 167 lb uplift at joint 54, 29 lb uplift at joint 31 and 22 lb uplift at joint 30.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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

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

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

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



818 Soundside Road  
Edenton, NC 27932

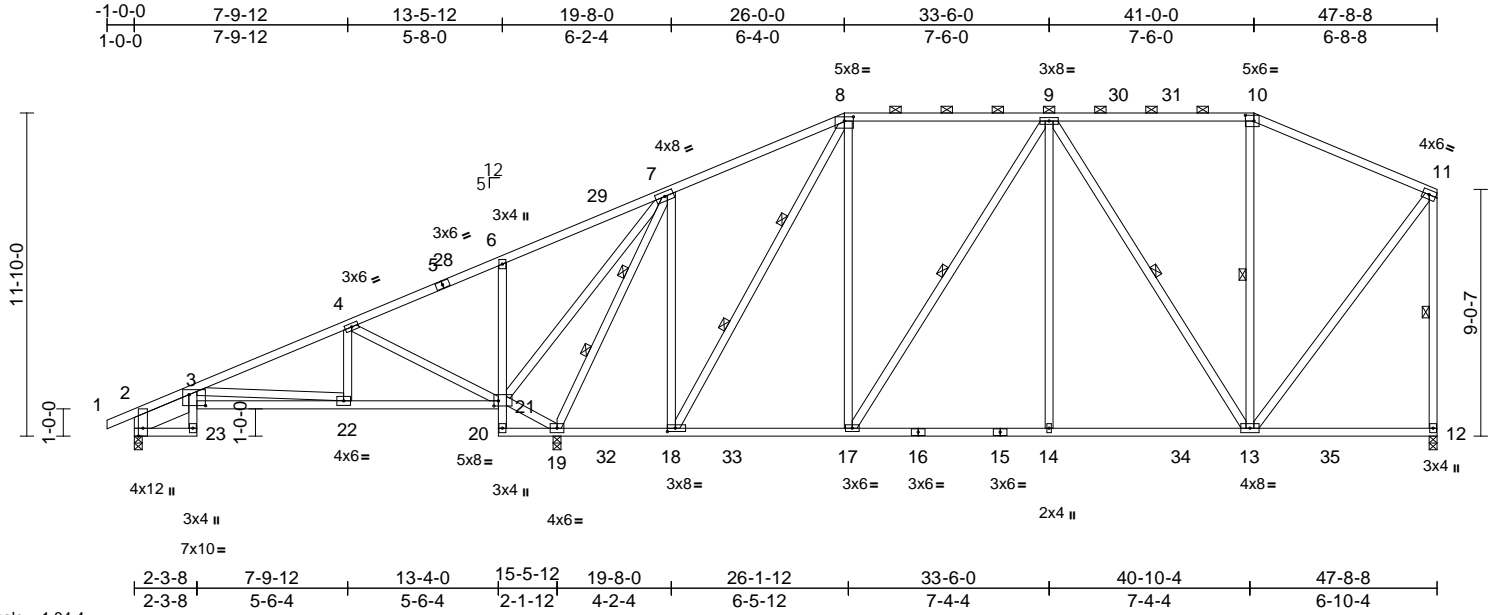
Job Glades - French	Truss A06V	Truss Type Piggyback Base	Qty 4	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	I58637555
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 30 16:12:00

Page: 1

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	1.00	Vert(LL)	0.08	3-22	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.14	3-22	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.10	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 368 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.1 \*Except\* 1-5:2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\* 23-3,6-20:2x4 SP No.3  
WEBS 2x4 SP No.3  
SLIDER Left 2x8 SP DSS -- 2-3-13

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 8-10.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**WEBS**  
1 Row at midpt 9-17, 9-13, 10-13, 11-12  
2 Rows at 1/3 pts 7-19, 8-18

**REACTIONS**  
(size) 2=0-3-8, 12=0-3-8, 19=0-3-8  
Max Horiz 2=279 (LC 15)  
Max Uplift 12=27 (LC 17), 19=254 (LC 16)  
Max Grav 2=252 (LC 31), 12=1372 (LC 44), 19=2739 (LC 39)

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

**TOP CHORD**  
1-2=0/38, 2-3=-365/210, 3-4=-465/502, 4-6=-525/1101, 6-7=-446/1125, 7-8=-355/272, 8-9=-752/175, 9-10=-681/198, 10-11=-768/183, 11-12=-1244/141

**BOT CHORD**  
2-23=-196/130, 3-23=-59/64, 3-22=-335/116, 21-22=-331/115, 20-21=-41/17, 6-21=-434/145, 19-20=-36/0, 18-19=-222/235, 17-18=-52/743, 14-17=-84/1050, 13-14=-84/1050, 12-13=-90/102

**WEBS**  
4-22=0/293, 4-21=-710/178, 19-21=-1174/316, 7-21=-39/264, 7-19=-2275/436, 7-18=-117/1201, 8-18=-1155/214, 8-17=0/747, 9-17=-582/97, 9-14=0/416, 9-13=-686/48, 10-13=-252/142, 11-13=-34/1113

**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
- \*\* 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.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof live load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 254 lb uplift at joint 19 and 27 lb uplift at joint 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.
- 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: 1-3=-52, 3-8=-52, 8-10=-60, 10-11=-52, 23-24=-20, 3-21=-20, 12-20=-20



May 31, 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



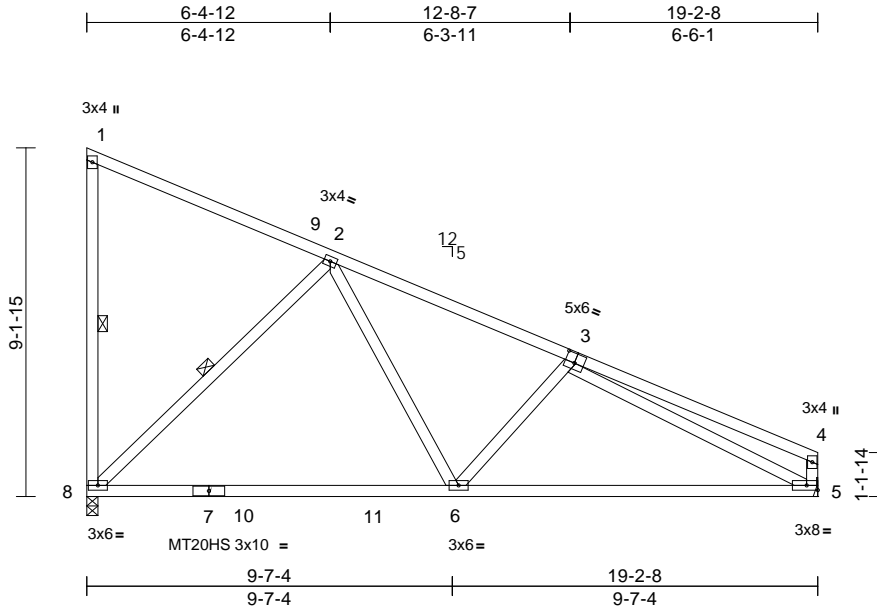
818 Soundside Road  
Edenton, NC 27932

Job Glades - French	Truss A07	Truss Type Roof Special	Qty 10	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637556
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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. Tue May 30 16:12:01  
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Page: 1



Scale = 1:60.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.30	6-8	>749	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	Vert(CT)	-0.51	6-8	>448	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS							
BCDL	10.0										
										Weight: 113 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
WEBS 1 Row at midpt 1-8, 2-8

**REACTIONS**

(size) 5= Mechanical, 8=0-3-8  
Max Horiz 8=281 (LC 12)  
Max Uplift 5=28 (LC 17), 8=90 (LC 17)  
Max Grav 5=757 (LC 2), 8=826 (LC 23)

**FORCES**

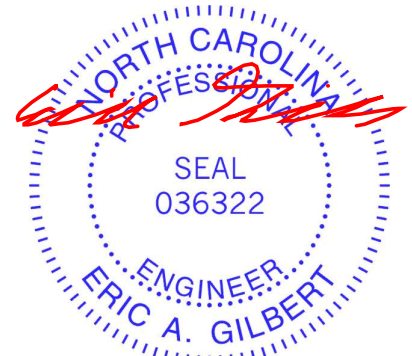
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-8=-220/89, 1-2=-166/101, 2-4=-898/131, 4-5=-252/80  
BOT CHORD 6-8=0/571, 5-6=-102/947  
WEBS 3-5=-870/110, 2-8=-747/199, 2-6=-1/544, 3-6=-275/186

**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) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 8 and 28 lb uplift at joint 5.
- 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



May 31, 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



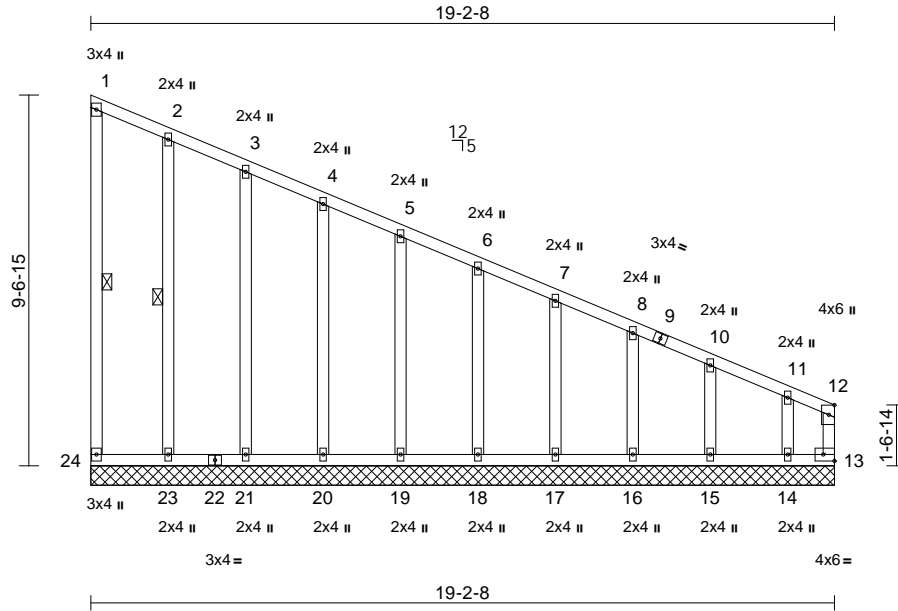
818 Soundside Road  
Edenton, NC 27932

Job Glades - French	Truss A07G	Truss Type Roof Special Supported Gable	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637557
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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. Tue May 30 16:12:01  
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Page: 1



Scale = 1:59.5  
Plate Offsets (X, Y): [13:Edge,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.43	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.01	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 140 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.

WEBS 1 Row at midpt 1-24, 2-23

**REACTIONS** (size)  
13=19-2-8, 14=19-2-8, 15=19-2-8, 16=19-2-8, 17=19-2-8, 18=19-2-8, 19=19-2-8, 20=19-2-8, 21=19-2-8, 23=19-2-8, 24=19-2-8  
Max Horiz 24=264 (LC 12)  
Max Uplift 14=335 (LC 12), 16=30 (LC 17), 17=21 (LC 17), 18=24 (LC 17), 19=22 (LC 17), 20=24 (LC 17), 21=21 (LC 17), 23=20 (LC 17), 24=27 (LC 12)  
Max Grav 13=389 (LC 12), 14=137 (LC 2), 15=165 (LC 2), 16=159 (LC 2), 17=160 (LC 2), 18=160 (LC 2), 19=160 (LC 2), 20=175 (LC 23), 21=208 (LC 23), 23=215 (LC 23), 24=79 (LC 23)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-24=63/42, 1-2=99/96, 2-3=123/112, 3-4=151/119, 4-5=181/130, 5-6=211/140, 6-7=241/151, 7-8=271/161, 8-10=303/172, 10-11=325/179, 11-12=448/239, 12-13=371/190

**BOT CHORD** 23-24=-203/366, 21-23=-203/366, 20-21=-203/366, 19-20=-203/366, 18-19=-203/366, 17-18=-203/366, 16-17=-203/366, 15-16=-203/366, 14-15=-203/366, 13-14=-203/366  
**WEBS** 2-23=-172/97, 3-21=-169/69, 4-20=-134/55, 5-19=-120/55, 6-18=-120/55, 7-17=-120/54, 8-16=-119/59, 10-15=-124/47, 11-14=-197/307

- 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) interior 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 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
  - 4) Roof design snow load has been reduced to account for slope.
  - 5) Unbalanced snow loads have been considered for this design.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 8) Gable studs spaced at 2-0-0 oc.
  - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 24, 20 lb uplift at joint 23, 21 lb uplift at joint 21, 24 lb uplift at joint 20, 22 lb uplift at joint 19, 24 lb uplift at joint 18, 21 lb uplift at joint 17, 30 lb uplift at joint 16 and 335 lb uplift at joint 14.
  - 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



May 31, 2023

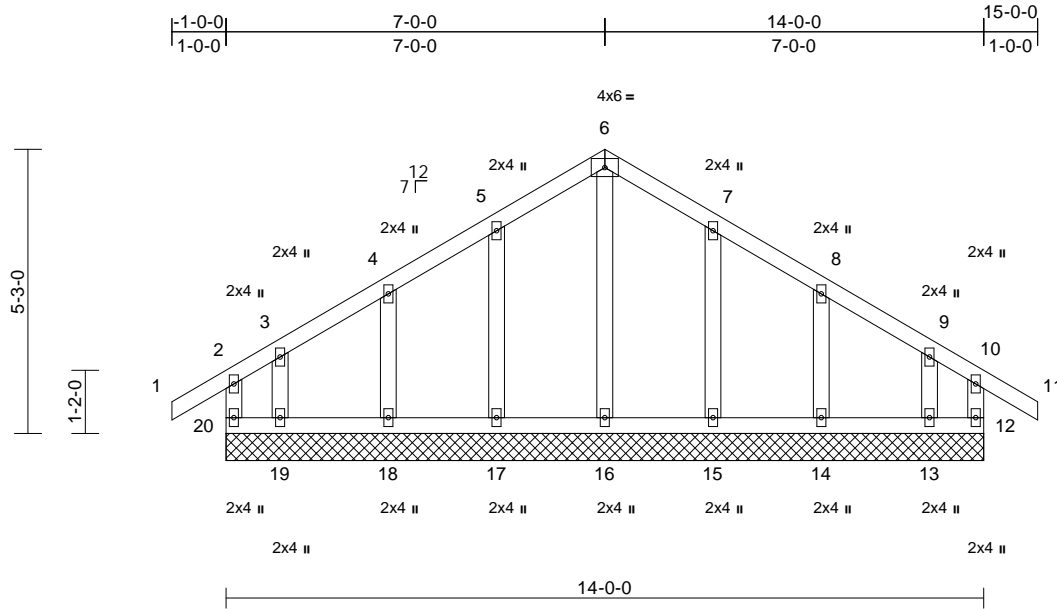


Job Glades - French	Truss B01G	Truss Type Common Supported Gable	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637558
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 30 16:12:01  
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Page: 1



Scale = 1:42.6

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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 79 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 6-0-0 oc bracing.

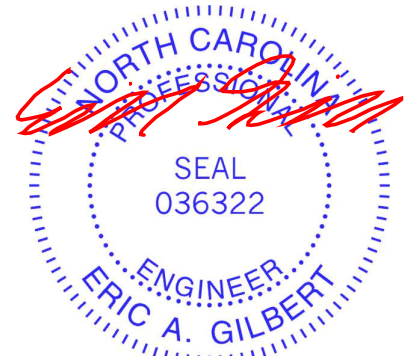
REACTIONS	(size)
Max Horiz	12=14-0-0, 13=14-0-0, 14=14-0-0, 15=14-0-0, 16=14-0-0, 17=14-0-0, 18=14-0-0, 19=14-0-0, 20=14-0-0
Max Uplift	20=117 (LC 15)
Max Grav	12=57 (LC 13), 13=57 (LC 17), 14=32 (LC 17), 15=34 (LC 17), 17=35 (LC 16), 18=32 (LC 16), 19=70 (LC 13), 20=75 (LC 12)
	12=164 (LC 22), 13=140 (LC 31), 14=166 (LC 35), 15=169 (LC 31), 16=161 (LC 33), 17=170 (LC 30), 18=166 (LC 34), 19=151 (LC 30), 20=164 (LC 22)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2-20=-162/64, 1-2=0/58, 2-3=-69/71, 3-4=-46/64, 4-5=-65/86, 5-6=-98/125, 6-7=-98/125, 7-8=-65/86, 8-9=-36/61, 9-10=-52/57, 10-11=0/58, 10-12=-162/61
BOT CHORD	19-20=-59/55, 18-19=-59/55, 17-18=-59/55, 16-17=-59/55, 15-16=-59/55, 14-15=-59/55, 13-14=-59/55, 12-13=-59/55
WEBS	6-16=-121/5, 5-17=-129/58, 4-18=-124/59, 3-19=-92/58, 7-15=-129/58, 8-14=-125/59, 9-13=-87/56

**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.
- 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.
- 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 75 lb uplift at joint 20, 57 lb uplift at joint 12, 35 lb uplift at joint 17, 32 lb uplift at joint 18, 70 lb uplift at joint 19, 34 lb uplift at joint 15, 32 lb uplift at joint 14 and 57 lb uplift at joint 13.

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



May 31, 2023

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

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

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

ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

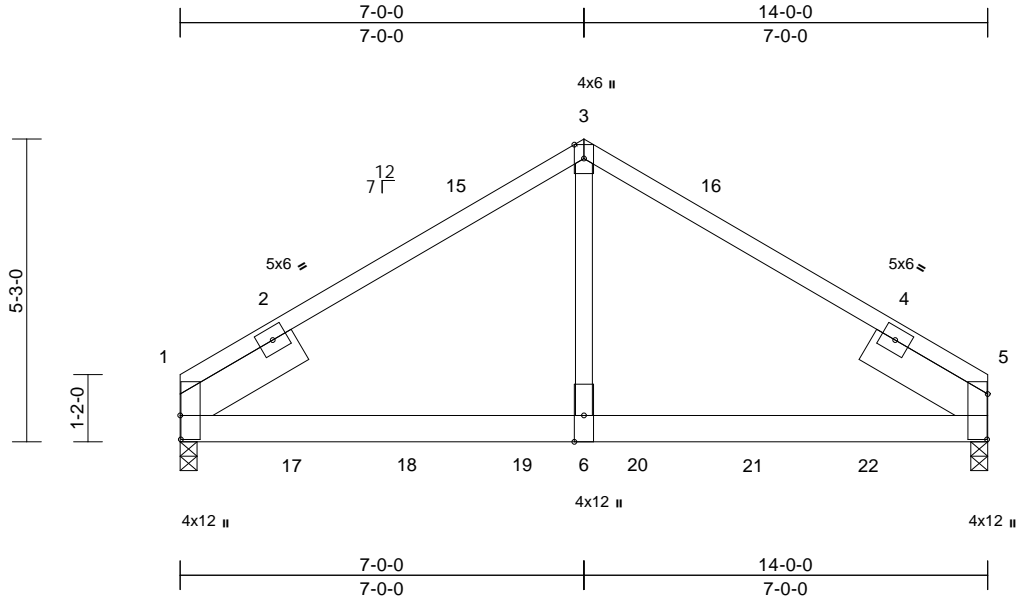
818 Soundside Road  
Edenton, NC 27932

Job Glades - French	Truss B01GR	Truss Type Common Girder	Qty 1	Ply 3	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	I58637559
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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. Tue May 30 16:12:02  
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Page: 1



Scale = 1:39.9  
Plate Offsets (X, Y): [1:0-5-0,0-0-2], [5:0-9-7,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.06	6-9	>999	240	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.10	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 236 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP DSS  
WEBS 2x4 SP No.3  
SLIDER Left 2x8 SP DSS -- 2-5-0, Right 2x8 SP DSS -- 2-5-0

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

**REACTIONS** (size) 1=0-3-8, 5=0-3-8  
Max Horiz 1=-79 (LC 10)  
Max Uplift 1=-215 (LC 12), 5=-212 (LC 13)  
Max Grav 1=4205 (LC 1), 5=4140 (LC 1)

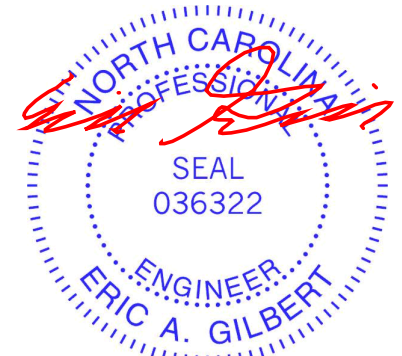
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-3=-4584/283, 3-5=-4585/283  
BOT CHORD 1-6=-188/3895, 5-6=-188/3895  
WEBS 3-6=-192/4352

- NOTES**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-8-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=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 215 lb uplift at joint 1 and 212 lb uplift at joint 5.
- 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) 1236 lb down and 68 lb up at 1-11-4, 1236 lb down and 68 lb up at 3-11-4, 1236 lb down and 68 lb up at 5-11-4, 1236 lb down and 68 lb up at 7-11-4, and 1236 lb down and 68 lb up at 9-11-4, and 1236 lb down and 68 lb up at 11-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

Vert: 1-3=-46, 3-5=-46, 7-11=-20  
Concentrated Loads (lb)  
Vert: 17=-1236 (F), 18=-1236 (F), 19=-1236 (F), 20=-1236 (F), 21=-1236 (F), 22=-1236 (F)



May 31, 2023

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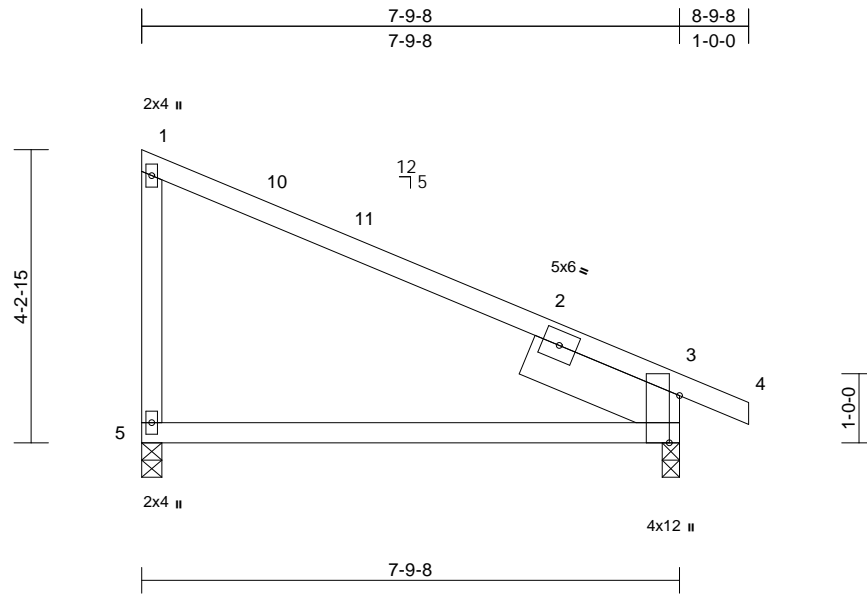
818 Soundside Road  
Edenton, NC 27932

Job Glades - French	Truss C01	Truss Type Roof Special	Qty 2	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637560
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



Scale = 1:33.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	0.16	5-8	>558	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.35	5-8	>263	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.11	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 39 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Right 2x8 SP DSS -- 2-5-0

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

(size) 3=0-3-0, 5=0-3-8  
 Max Horiz 5=-112 (LC 14)  
 Max Uplift 3=-22 (LC 17), 5=-25 (LC 17)  
 Max Grav 3=370 (LC 2), 5=308 (LC 24)

**FORCES**

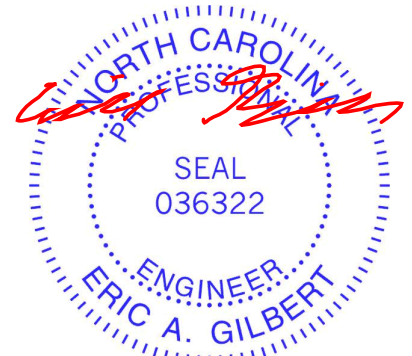
(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-5=-211/134, 1-3=-434/91, 3-4=0/38  
 BOT CHORD 3-5=-161/223

**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) interior 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 5 and 22 lb uplift at joint 3.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



May 31, 2023

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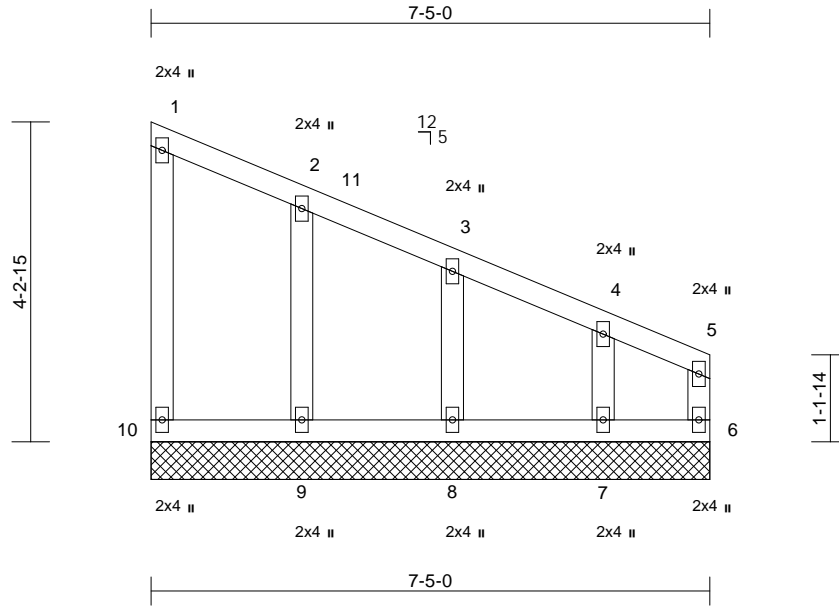
818 Soundside Road  
 Edenton, NC 27932

Job Glades - French	Truss C01G	Truss Type Roof Special Supported Gable	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637561
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



Scale = 1:30.6

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	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0											
										Weight: 39 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) 6=7-5-0, 7=7-5-0, 8=7-5-0, 9=7-5-0, 10=7-5-0  
Max Horiz 10=110 (LC 12)  
Max Uplift 7=80 (LC 17), 8=16 (LC 17), 9=21 (LC 17), 10=12 (LC 12)  
Max Grav 6=102 (LC 12), 7=144 (LC 2), 8=163 (LC 2), 9=169 (LC 23), 10=66 (LC 23)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-10=50/40, 1-2=57/48, 2-3=94/69, 3-4=128/80, 4-5=190/108, 5-6=119/57  
BOT CHORD 9-10=107/184, 8-9=107/184, 7-8=107/184, 6-7=107/184  
WEBS 2-9=128/83, 3-8=122/77, 4-7=112/146

**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) interior 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) 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.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 10, 21 lb uplift at joint 9, 16 lb uplift at joint 8 and 80 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



May 31, 2023

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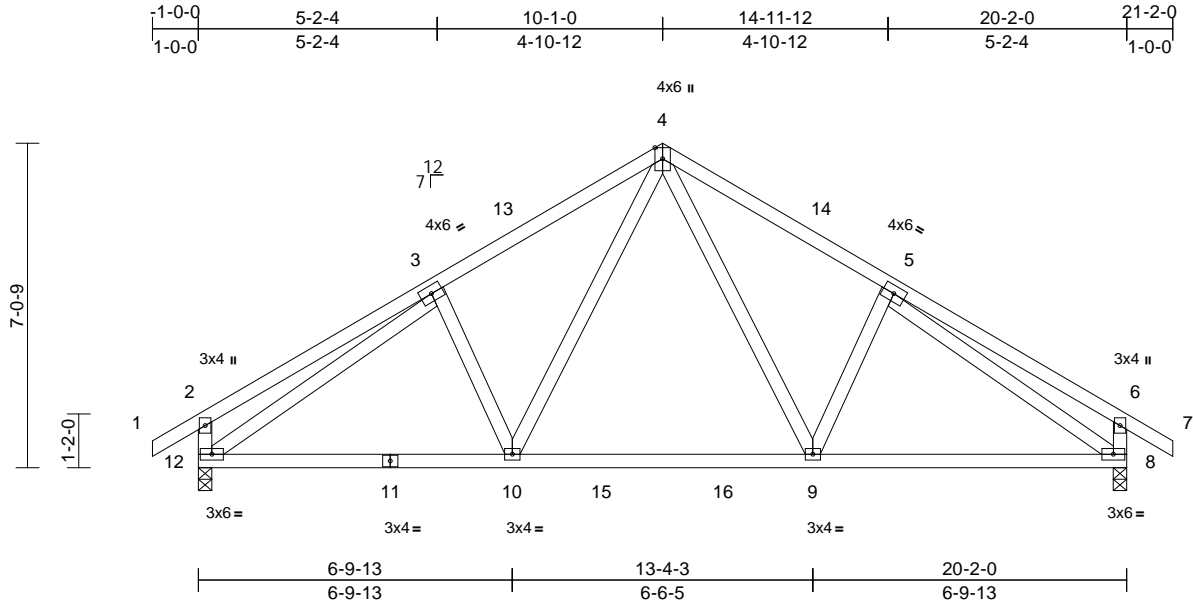
818 Soundside Road  
Edenton, NC 27932

Job Glades - French	Truss D01	Truss Type Common	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637562
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



<b>Loading</b> (psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>	<b>DEFL</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL (roof)	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.08	9-10	>999	240	MT20	244/190
Snow (Ps/Pf)	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.11	9-10	>999	180		
TCDL	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02	8	n/a	n/a		
BCLL	Code	IRC2015/TPI2014	Matrix-MS								
BCDL										Weight: 121 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

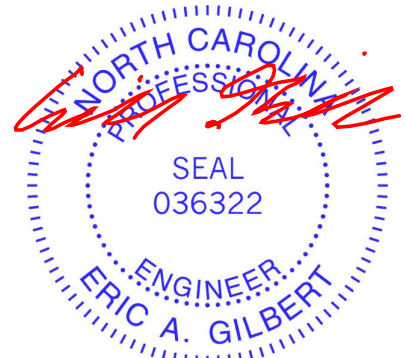
**REACTIONS** (size) 8=0-3-8, 12=0-3-8  
Max Horiz 12=152 (LC 14)  
Max Uplift 8=-32 (LC 17), 12=-32 (LC 16)  
Max Grav 8=864 (LC 2), 12=864 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/58, 2-3=-232/94, 3-4=-919/142, 4-5=-919/142, 5-6=-232/94, 6-7=0/58, 2-12=-294/103, 6-8=-294/103  
BOT CHORD 10-12=-42/855, 9-10=0/616, 8-9=-16/791  
WEBS 4-9=-51/379, 5-9=-189/142, 4-10=-50/379, 3-10=-189/142, 3-12=-827/26, 5-8=-827/26

- 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.
- 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 32 lb uplift at joint 12 and 32 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

- 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
  - 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.



May 31, 2023

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

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

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



818 Soundside Road  
Edenton, NC 27932

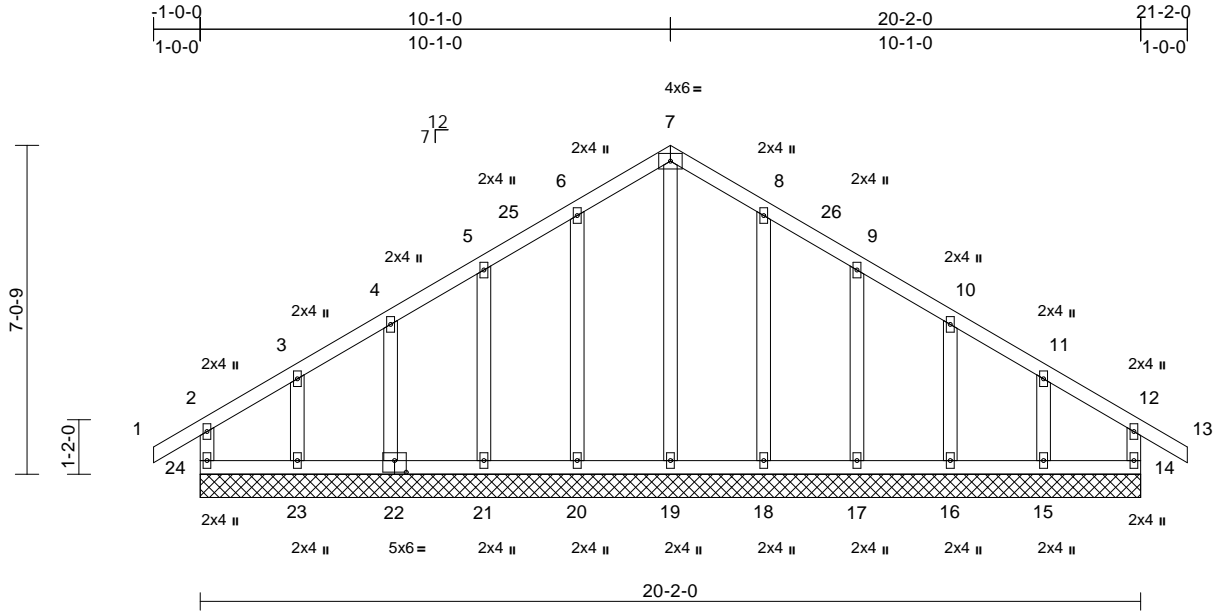


Job Glades - French	Truss D01G	Truss Type Common Supported Gable	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637563
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 30 16:12:03  
ID: MV9wnEqqTHEDwK8in2PoXhZlad1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:49.4  
Plate Offsets (X, Y): [22:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	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	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 123 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 6-0-0 oc bracing.

**REACTIONS** (size)  
14=20-2-0, 15=20-2-0, 16=20-2-0, 17=20-2-0, 18=20-2-0, 19=20-2-0, 20=20-2-0, 21=20-2-0, 22=20-2-0, 23=20-2-0, 24=20-2-0

Max Horiz 24=-152 (LC 14)  
Max Uplift 14=-33 (LC 13), 15=-65 (LC 17), 16=-25 (LC 17), 17=-37 (LC 17), 18=-31 (LC 17), 20=-31 (LC 16), 21=-37 (LC 16), 22=-24 (LC 16), 23=-66 (LC 16), 24=-47 (LC 12)  
Max Grav 14=157 (LC 22), 15=188 (LC 31), 16=163 (LC 35), 17=162 (LC 31), 18=189 (LC 24), 19=177 (LC 33), 20=189 (LC 23), 21=160 (LC 30), 22=162 (LC 34), 23=193 (LC 30), 24=170 (LC 31)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 2-24=-141/64, 1-2=0/58, 2-3=-92/87, 3-4=-64/81, 4-5=-82/104, 5-6=-115/137, 6-7=-147/173, 7-8=-147/173, 8-9=-115/137, 9-10=-82/97, 10-11=-51/73, 11-12=-73/70, 12-13=0/58, 12-14=-140/60  
BOT CHORD 23-24=-71/74, 21-23=-72/74, 20-21=-72/74, 19-20=-72/74, 18-19=-72/74, 17-18=-72/74, 16-17=-72/74, 15-16=-72/74, 14-15=-72/74

**WEBS** 7-19=-137/52, 6-20=-149/55, 5-21=-120/59, 4-22=-122/53, 3-23=-132/75, 8-18=-149/55, 9-17=-121/60, 10-16=-123/53, 11-15=-130/74

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 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 47 lb uplift at joint 24, 33 lb uplift at joint 14, 31 lb uplift at joint 20, 37 lb uplift at joint 21, 24 lb uplift at joint 22, 66 lb uplift at joint 23, 31 lb uplift at joint 18, 37 lb uplift at joint 17, 25 lb uplift at joint 16 and 65 lb uplift at joint 15.
- 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



May 31, 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



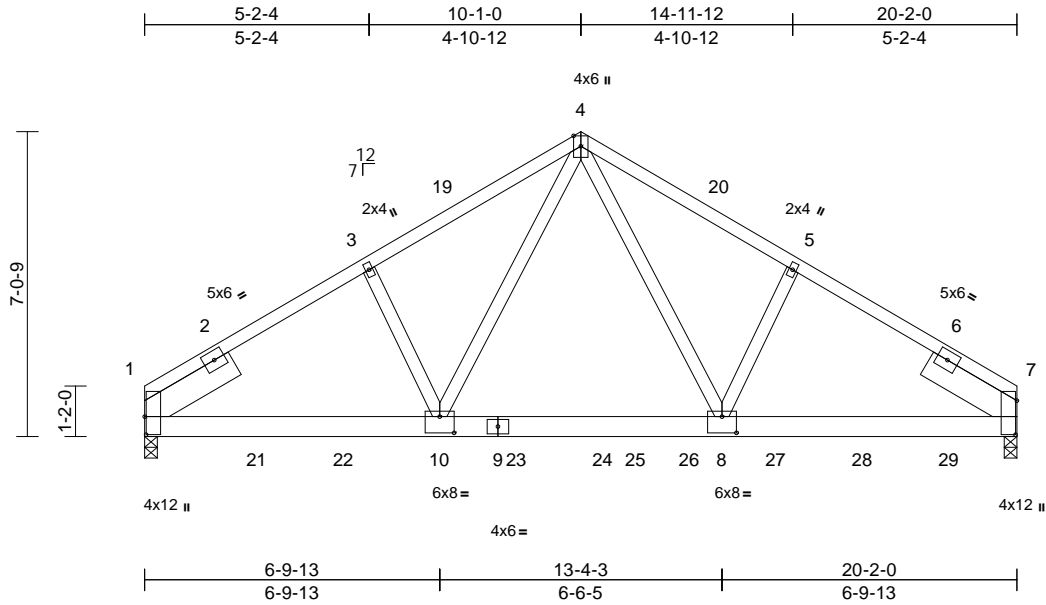
818 Soundside Road  
Edenton, NC 27932

Job Glades - French	Truss D01GR	Truss Type Common Girder	Qty 1	Ply 3	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637564
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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. Tue May 30 16:12:03  
ID:7pChvsuTzSlgpnvVhJZx4AzlbGG-RfC?PsB70Hq3NSgPqnL8w3uITxBkGWrCDoi7J4zJC7f

Page: 1



Scale = 1:53.3  
Plate Offsets (X, Y): [1:0-5-0,0-0-6], [7:0-9-7,0-0-6], [8:0-4-0,0-4-8], [10:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.10	8-10	>999	240	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.19	8-10	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 388 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Left 2x8 SP DSS -- 2-5-0, Right 2x8 SP DSS -- 2-5-0

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

**REACTIONS** (size) 1=0-3-8, 7=0-3-8  
Max Horiz 1=114 (LC 9)  
Max Uplift 1=-224 (LC 12), 7=-208 (LC 13)  
Max Grav 1=4665 (LC 2), 7=4319 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-3=-5348/285, 3-4=-5231/328, 4-5=-5241/329, 5-7=-5358/286  
BOT CHORD 1-10=-260/4494, 8-10=-129/3312, 7-8=-184/4503  
WEBS 4-8=-185/2729, 5-8=-73/232, 4-10=-184/2709, 3-10=-73/232

**NOTES**  
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-8-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.  
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 1 and 208 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 741 lb down and 38 lb up at 0-7-3, 737 lb down and 40 lb up at 2-7-2, 737 lb down and 40 lb up at 4-7-3, 737 lb down and 40 lb up at 6-10-3, 737 lb down and 40 lb up at 8-7-2, 737 lb down and 40 lb up at 10-7-3, 737 lb down and 40 lb up at 12-7-3, 737 lb down and 40 lb up at 14-7-2, and 737 lb down and 40 lb up at 16-7-2, and 737 lb down and 40 lb up at 18-7-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- LOAD CASE(S)** Standard  
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 1-4=-46, 4-7=-46, 11-15=-20  
Concentrated Loads (lb)  
Vert: 10=-683 (F), 13=-687 (F), 21=-683 (F), 22=-683 (F), 23=-683 (F), 24=-683 (F), 26=-683 (F), 27=-683 (F), 28=-683 (F), 29=-683 (F)



May 31, 2023

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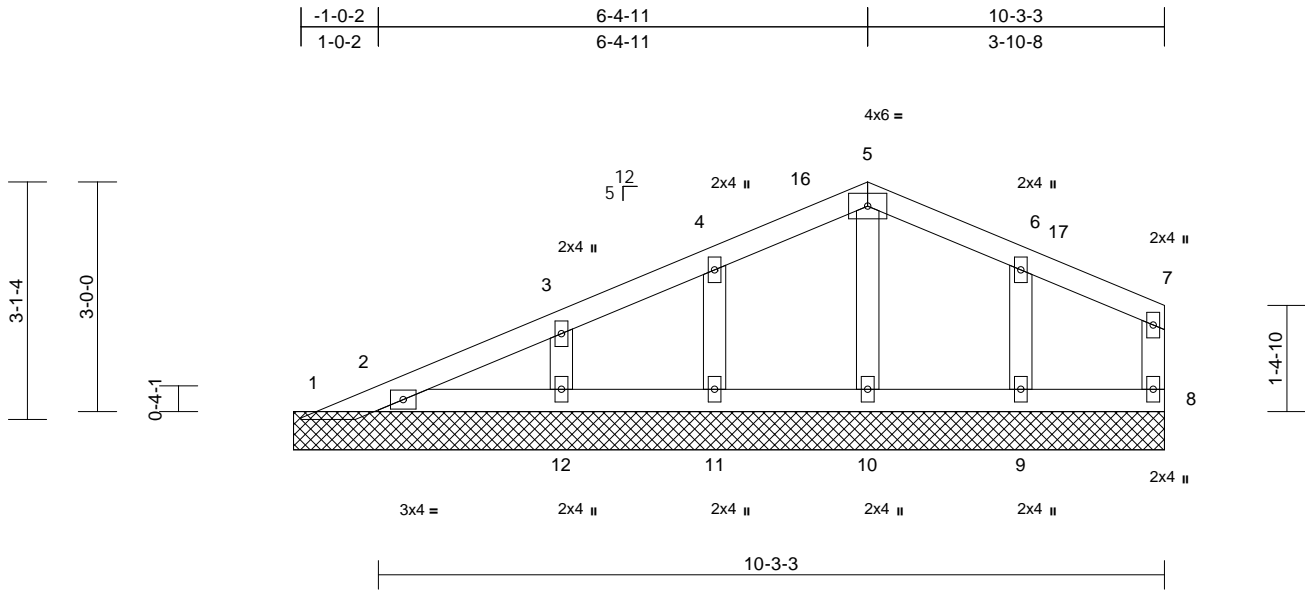
ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate  
818 Soundside Road  
Edenton, NC 27932

Job Glades - French	Truss PB01	Truss Type Piggyback	Qty 6	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637565
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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. Tue May 30 16:12:04  
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Page: 1



Scale = 1:30.1

Loading (psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	8	n/a	n/a		
BCLL	Code	IRC2015/TPI2014	Matrix-MS								
BCDL										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 6'-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10'-0-0 oc bracing.

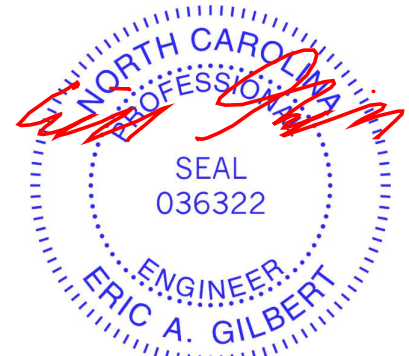
REACTIONS (size)	
Max Horiz	1=11-4-8, 2=11-4-8, 8=11-4-8, 9=11-4-8, 10=11-4-8, 11=11-4-8, 12=11-4-8, 13=11-4-8
Max Uplift	1=53 (LC 16)
Max Grav	1=-18 (LC 7), 2=-9 (LC 16), 8=-3 (LC 17), 9=-28 (LC 17), 11=-24 (LC 16), 12=-26 (LC 16), 13=-9 (LC 16)
	1=22 (LC 16), 2=177 (LC 2), 8=60 (LC 2), 9=170 (LC 24), 10=145 (LC 2), 11=161 (LC 34), 12=186 (LC 2), 13=177 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-80/60, 2-3=-43/26, 3-4=-37/35, 4-5=-45/71, 5-6=-45/71, 6-7=-30/34, 7-8=-45/30
BOT CHORD	2-12=-12/17, 11-12=-12/17, 10-11=-12/17, 9-10=-12/17, 8-9=-12/17
WEBS	5-10=-104/19, 4-11=-127/70, 3-12=-129/67, 6-9=-130/72

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=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.
- 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'-0-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 2, 3 lb uplift at joint 8, 18 lb uplift at joint 1, 24 lb uplift at joint 11, 26 lb uplift at joint 12, 28 lb uplift at joint 9 and 9 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



May 31, 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

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**TRENCO**  
A MiTek Affiliate

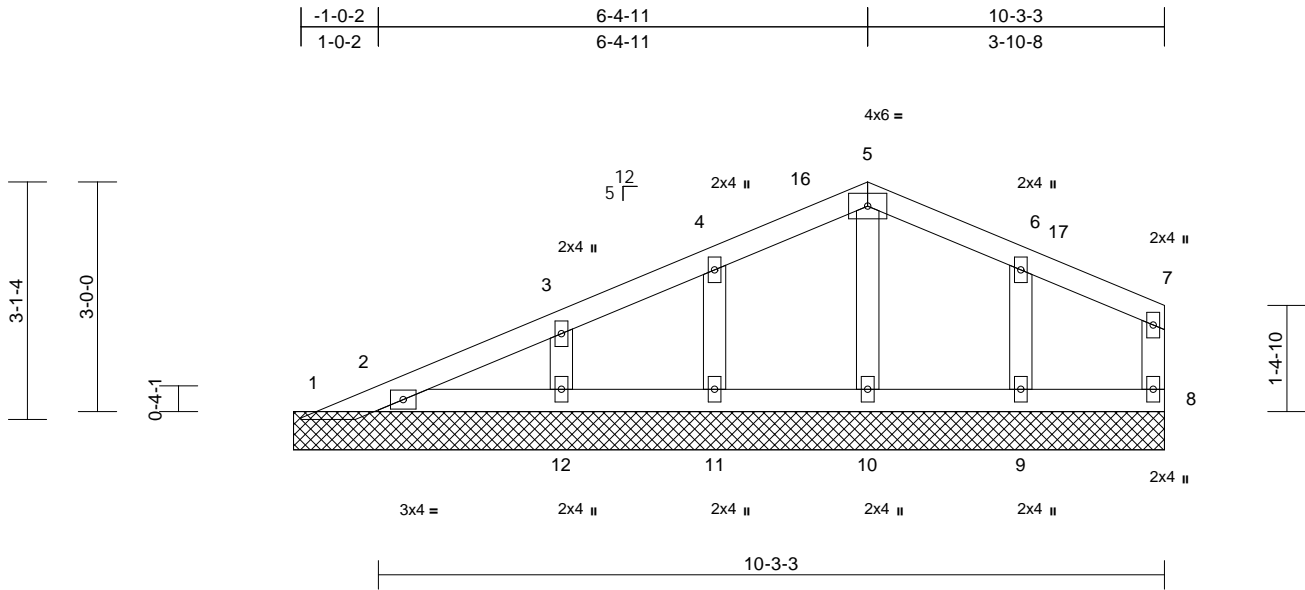
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy; Glades - Lot 52 Providence Creek	158637566
Glades - French	PB01G	Piggyback	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. Tue May 30 16:12:04  
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Page: 1



Scale = 1:30.1

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	0.06	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(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
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 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

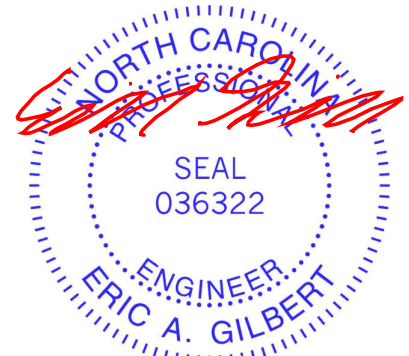
REACTIONS	(size)
Max Horiz	1=11-4-8, 2=11-4-8, 8=11-4-8, 9=11-4-8, 10=11-4-8, 11=11-4-8, 12=11-4-8, 13=11-4-8
Max Uplift	1=53 (LC 16)
Max Grav	1=-18 (LC 7), 2=-9 (LC 16), 8=-3 (LC 17), 9=-28 (LC 17), 11=-24 (LC 16), 12=-26 (LC 16), 13=-9 (LC 16)
	1=22 (LC 16), 2=177 (LC 2), 8=60 (LC 2), 9=170 (LC 24), 10=145 (LC 2), 11=161 (LC 34), 12=186 (LC 2), 13=177 (LC 2)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-80/60, 2-3=-43/26, 3-4=-37/35, 4-5=-45/71, 5-6=-45/71, 6-7=-30/34, 7-8=-45/30
BOT CHORD	2-12=-12/17, 11-12=-12/17, 10-11=-12/17, 9-10=-12/17, 8-9=-12/17
WEBS	5-10=-104/19, 4-11=-127/70, 3-12=-129/67, 6-9=-130/72

**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=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.
- 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 9 lb uplift at joint 2, 3 lb uplift at joint 8, 18 lb uplift at joint 1, 24 lb uplift at joint 11, 26 lb uplift at joint 12, 28 lb uplift at joint 9 and 9 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



May 31, 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

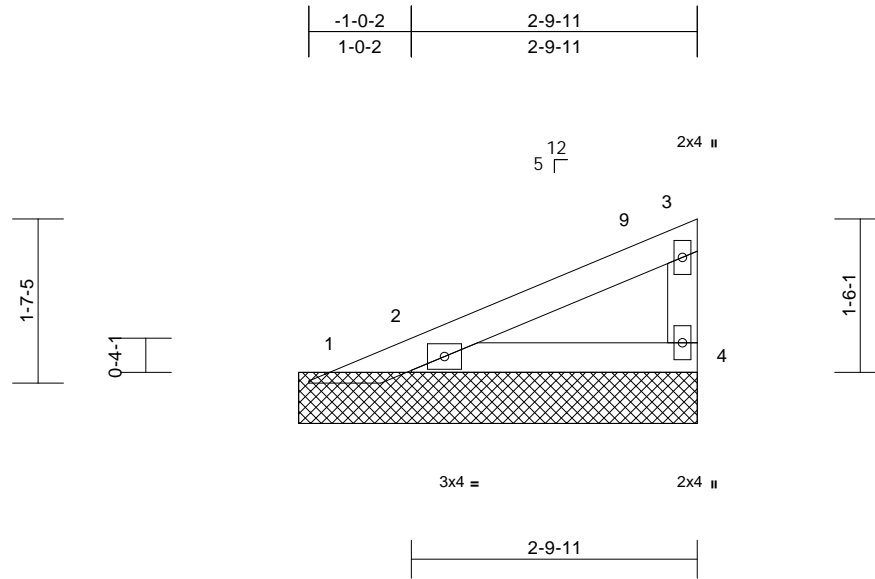


Job	Truss	Truss Type	Qty	Ply	Mattamy; Glades - Lot 52 Providence Creek
Glades - French	PB02	Piggyback	6	1	158637567
					Job Reference (optional)

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 30 16:12:04  
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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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 12 lb	FT = 20%

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

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

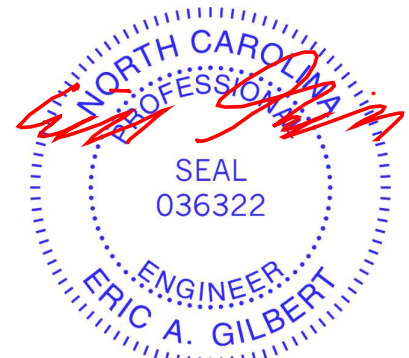
**REACTIONS** (size) 1=3-11-0, 2=3-11-0, 4=3-11-0, 5=3-11-0  
Max Horiz 1=42 (LC 13)  
Max Uplift 1=-54 (LC 2), 2=-19 (LC 16), 4=-7 (LC 16), 5=-19 (LC 16)  
Max Grav 1=16 (LC 16), 2=246 (LC 2), 4=91 (LC 2), 5=246 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-98/78, 2-3=-36/28, 3-4=-59/41  
BOT CHORD 2-4=-18/18

- 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.
- Bearing at joint(s) 2, 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 2, 7 lb uplift at joint 4, 54 lb uplift at joint 1 and 19 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

- NOTES**
- 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



May 31, 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

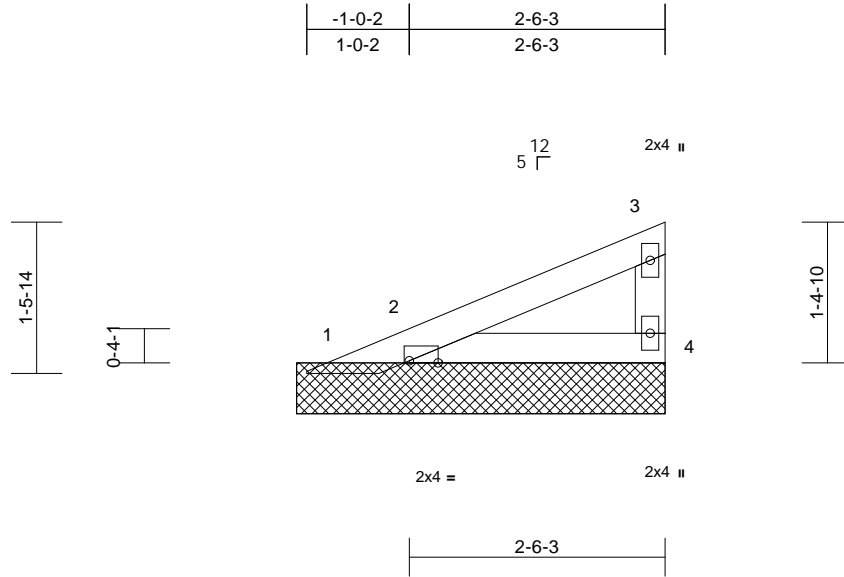


Job	Truss	Truss Type	Qty	Ply	Mattamy; Glades - Lot 52 Providence Creek
Glades - French	PB02G	Piggyback	1	1	158637568
					Job Reference (optional)

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

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 30 16:12:05  
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Page: 1



Scale = 1:22.7

Plate Offsets (X, Y): [2:0-3-6,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	0.09	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(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 11 lb	FT = 20%

**LUMBER**

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

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-7-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

(size) 1=3-7-8, 2=3-7-8, 4=3-7-8, 5=3-7-8  
 Max Horiz 1=38 (LC 13)  
 Max Uplift 1=-34 (LC 2), 2=-15 (LC 16), 4=-6 (LC 16), 5=-15 (LC 16)  
 Max Grav 1=13 (LC 13), 2=211 (LC 2), 4=83 (LC 2), 5=211 (LC 2)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-87/67, 2-3=-31/25, 3-4=-53/36  
 BOT CHORD 2-4=-16/16

**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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 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

- 4) Roof design snow load has been reduced to account for slope.
- 5) Unbalanced snow loads have been considered for this design.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Bearing at joint(s) 2, 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 2, 6 lb uplift at joint 4, 34 lb uplift at joint 1 and 15 lb uplift at joint 2.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



May 31, 2023

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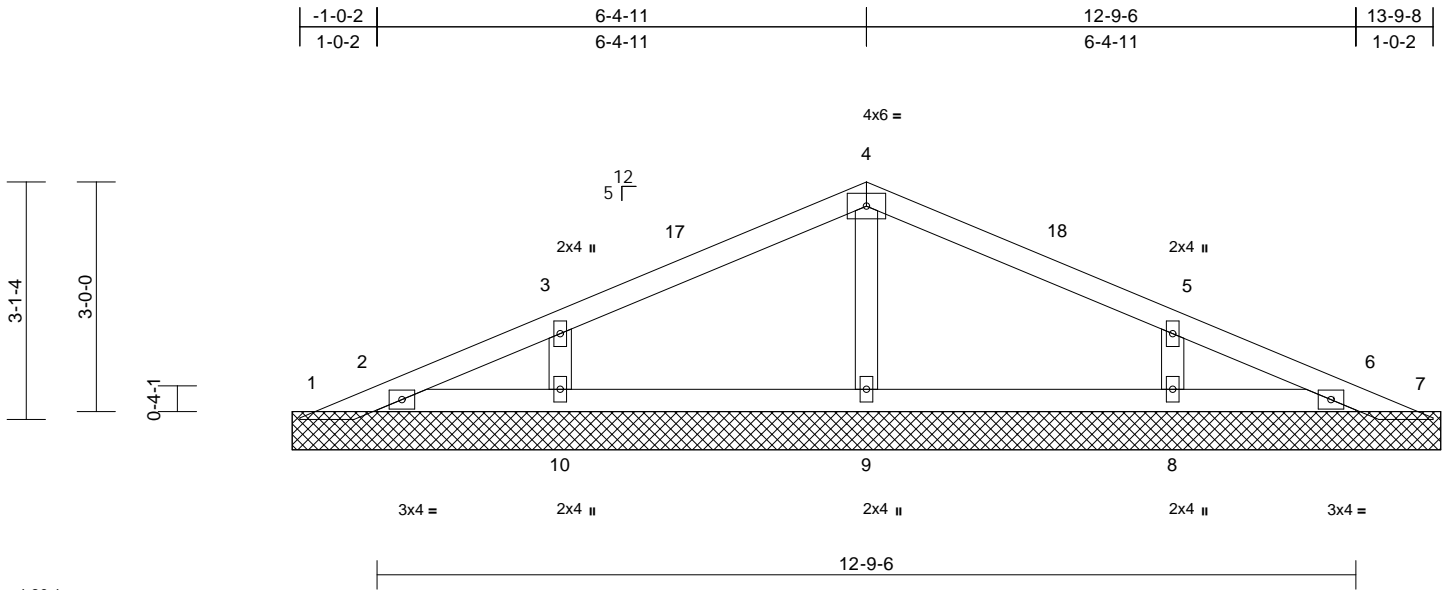
818 Soundside Road  
 Edenton, NC 27932

Job Glades - French	Truss PB03	Truss Type Piggyback	Qty 13	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637569
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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)	Plate Grip DOL	1.00	TC	0.19	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	0.05	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	Code	IRC2015/TPI2014	Matrix-MS								
BCDL										Weight: 49 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.

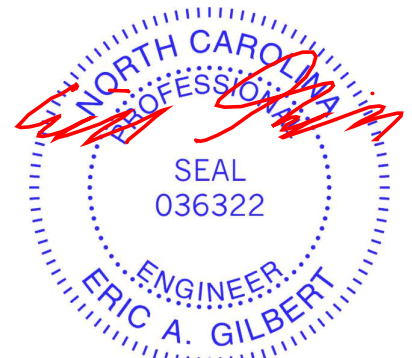
**REACTIONS** (size)  
 1=15-0-0, 2=15-0-0, 6=15-0-0,  
 7=15-0-0, 8=15-0-0, 9=15-0-0,  
 10=15-0-0, 11=15-0-0, 14=15-0-0  
 Max Horiz 1=38 (LC 16)  
 Max Uplift 1=15 (LC 17), 7=5 (LC 17), 8=52 (LC 17), 10=51 (LC 16)  
 Max Grav 1=19 (LC 23), 2=117 (LC 2), 6=101 (LC 2), 7=22 (LC 24), 8=306 (LC 35), 9=294 (LC 2), 10=308 (LC 34), 11=117 (LC 2), 14=101 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-40/50, 2-3=-38/33, 3-4=-70/62, 4-5=-70/62, 5-6=-29/27, 6-7=-7/14  
 BOT CHORD 2-10=-3/33, 9-10=-3/33, 8-9=-3/33, 6-8=-3/33  
 WEBS 4-9=-209/52, 3-10=-240/117, 5-8=-239/118

**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.
- 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 1, 5 lb uplift at joint 7, 51 lb uplift at joint 10 and 52 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



May 31, 2023

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ENGINEERING BY  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

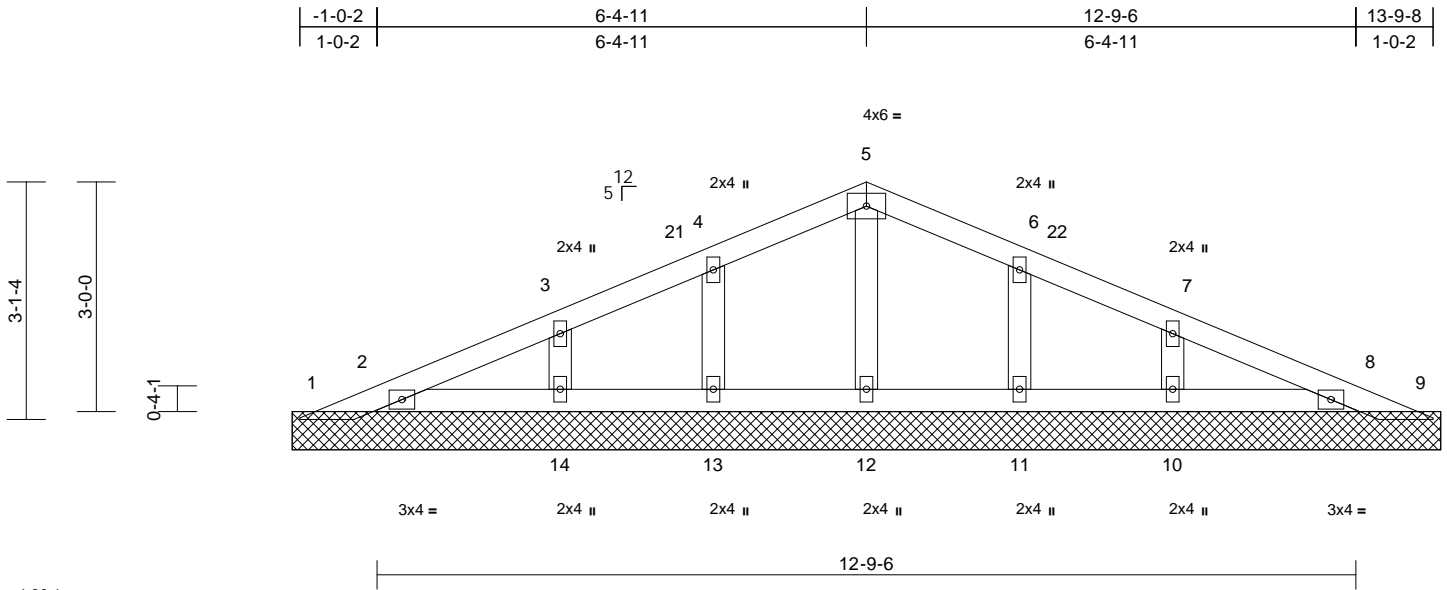
Job Glades - French	Truss PB03G	Truss Type Piggyback	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637570
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Tue May 30 16:12:05

Page: 1

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.06	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(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 54 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.

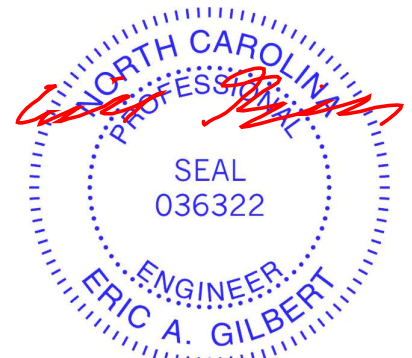
**REACTIONS** (size)  
1=15-0-0, 2=15-0-0, 8=15-0-0,  
9=15-0-0, 10=15-0-0, 11=15-0-0,  
12=15-0-0, 13=15-0-0, 14=15-0-0,  
15=15-0-0, 18=15-0-0  
Max Horiz 1=38 (LC 16)  
Max Uplift 1=-24 (LC 33), 2=-7 (LC 16), 8=-8 (LC 17), 9=-16 (LC 7), 10=-27 (LC 17), 11=-25 (LC 17), 13=-25 (LC 16), 14=-25 (LC 16), 15=-7 (LC 16), 18=-8 (LC 17)  
Max Grav 1=16 (LC 16), 2=179 (LC 2), 8=164 (LC 2), 9=2 (LC 17), 10=184 (LC 2), 11=163 (LC 24), 12=143 (LC 2), 13=162 (LC 23), 14=186 (LC 2), 15=179 (LC 2), 18=164 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-41/54, 2-3=-36/29, 3-4=-35/40, 4-5=-37/68, 5-6=-37/68, 6-7=-35/34, 7-8=-24/18, 8-9=-1/26  
BOT CHORD 2-14=-7/35, 13-14=-7/35, 12-13=-7/35, 11-12=-7/35, 10-11=-7/35, 8-10=-7/35  
WEBS 5-12=-101/0, 4-13=-127/64, 3-14=-129/62, 6-11=-127/64, 7-10=-128/62

**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=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.
- 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 7 lb uplift at joint 2, 8 lb uplift at joint 8, 24 lb uplift at joint 1, 16 lb uplift at joint 9, 25 lb uplift at joint 13, 25 lb uplift at joint 14, 25 lb uplift at joint 11, 27 lb uplift at joint 10, 7 lb uplift at joint 2 and 8 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.

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



May 31, 2023

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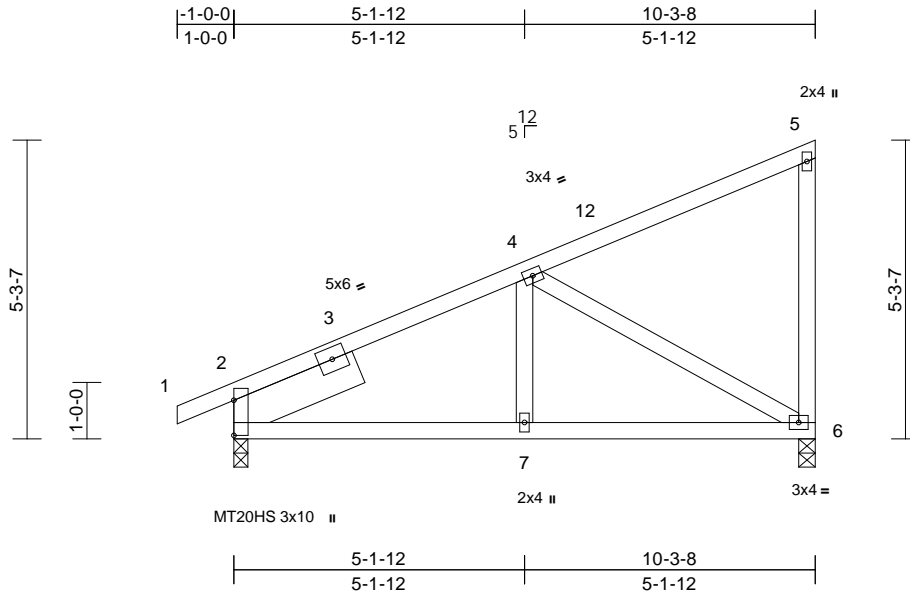
818 Soundside Road  
Edenton, NC 27932

Job Glades - French	Truss SP01	Truss Type Monopitch	Qty 11	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	I58637571
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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. Tue May 30 16:12:05  
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Page: 1



Scale = 1:40.8  
Plate Offsets (X, Y): [2:Edge,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	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: 60 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
SLIDER Left 2x8 SP DSS -- 2-5-0

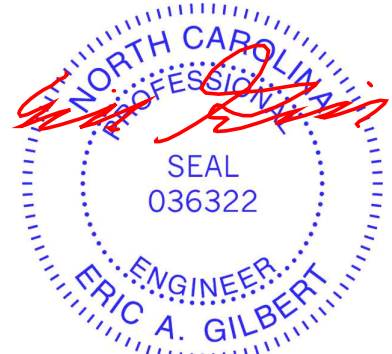
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**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=-408/96, 4-5=-112/69, 5-6=-156/82  
BOT CHORD 2-7=-237/413, 6-7=-192/413  
WEBS 4-7=0/208, 4-6=-461/169

- 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.
  - All plates are MT20 plates unless otherwise indicated.
  - 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 28 lb uplift at joint 2 and 49 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**
- 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=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.



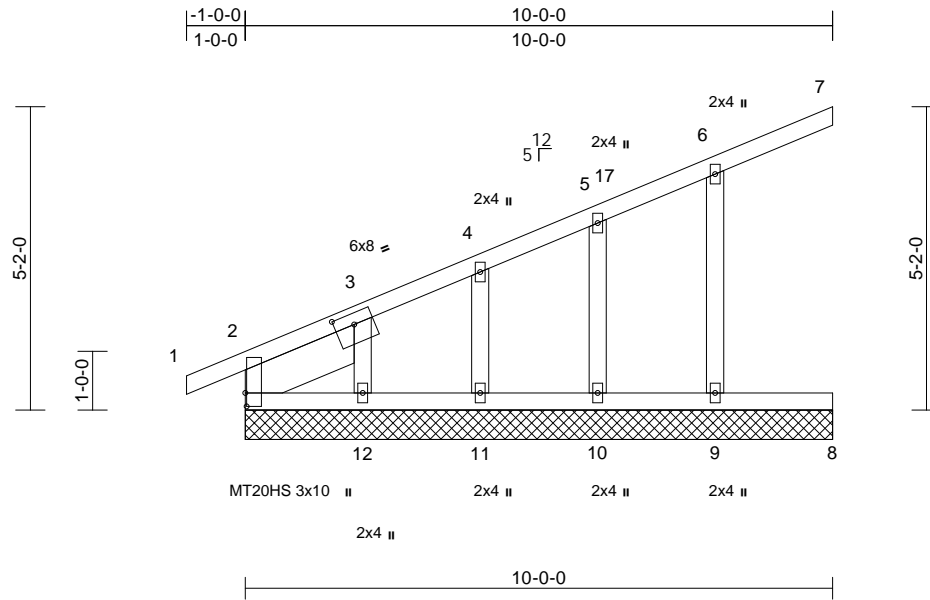
May 31, 2023

Job Glades - French	Truss SP01G	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637572
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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. Tue May 30 16:12:06  
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Page: 1



Scale = 1:39.2  
Plate Offsets (X, Y): [2:0-2-12,0-0-4], [3:0-4-0,0-2-4]

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	0.45	Vert(LL)	n/a	-	n/a	999	MT20HS	187/143
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 55 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3  
SLIDER Left 2x8 SP DSS -- 2-1-15

**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=10-0-0, 9=10-0-0, 10=10-0-0, 11=10-0-0, 12=10-0-0, 13=10-0-0  
Max Horiz 2=133 (LC 16), 13=133 (LC 16)  
Max Uplift 9=-36 (LC 13), 10=-94 (LC 22), 11=-23 (LC 16), 12=-69 (LC 16)  
Max Grav 2=161 (LC 22), 9=420 (LC 22), 10=57 (LC 2), 11=187 (LC 2), 12=150 (LC 2), 13=161 (LC 22)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/38, 2-3=-32/39, 3-4=-142/49, 4-5=-101/31, 5-6=-92/57, 6-7=-77/0  
BOT CHORD 2-12=0/0, 11-12=0/0, 10-11=0/0, 9-10=0/0, 8-9=0/0  
WEBS 6-9=-339/190, 5-10=-68/107, 4-11=-140/85, 3-12=-111/116

**NOTES**  
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCCL=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.
- All plates are MT20 plates unless otherwise indicated.
- 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 36 lb uplift at joint 9, 94 lb uplift at joint 10, 23 lb uplift at joint 11 and 69 lb uplift at joint 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



May 31, 2023



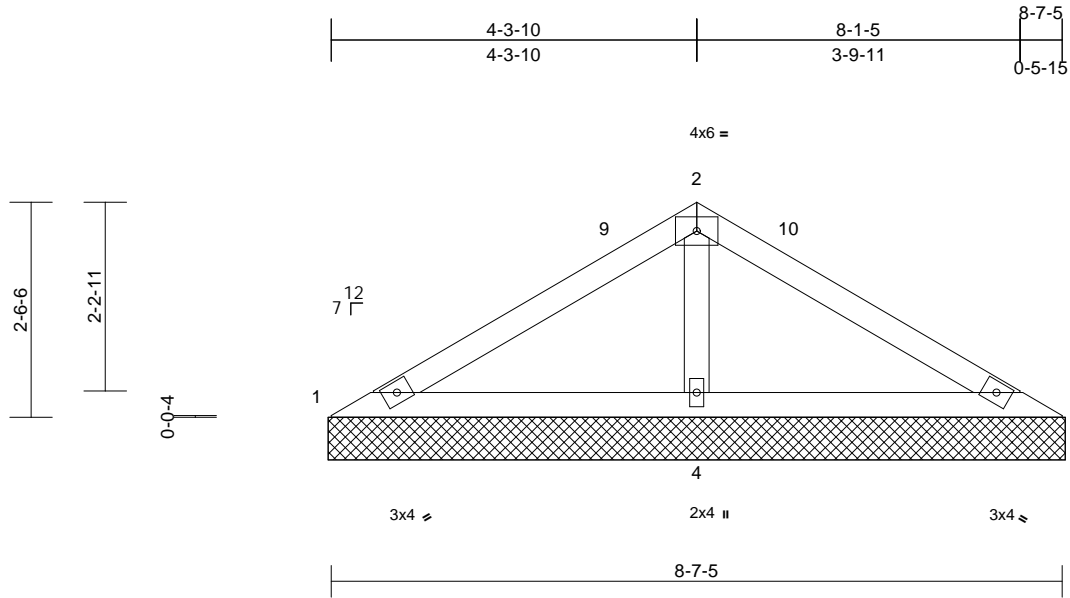


Job Glades - French	Truss V02	Truss Type Valley	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637574
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



Scale = 1:27.1

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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 29 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 8-7-5 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

#### REACTIONS

(size) 1=8-8-2, 3=8-8-2, 4=8-8-2  
Max Horiz 1=-46 (LC 12)  
Max Uplift 1=-17 (LC 34), 3=-17 (LC 33), 4=-19 (LC 16)  
Max Grav 1=70 (LC 33), 3=70 (LC 34), 4=624 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-62/306, 2-3=-62/306  
BOT CHORD 1-4=-232/81, 3-4=-232/81  
WEBS 2-4=-456/92

#### 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 17 lb uplift at joint 1, 17 lb uplift at joint 3 and 19 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 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



May 31, 2023

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

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

ENGINEERING BY  
**TRENCO**  
A MiTek Affiliate

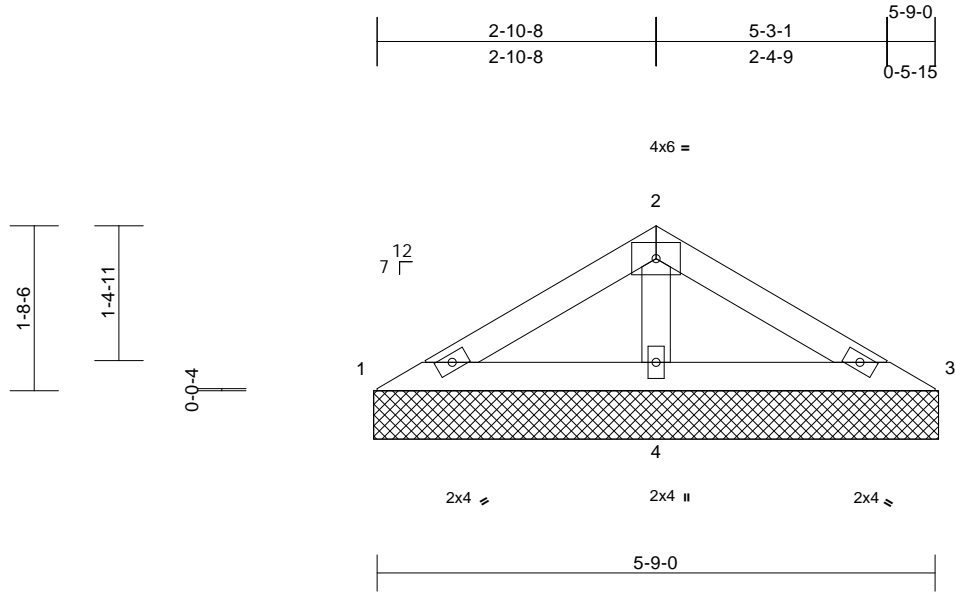
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy; Glades - Lot 52 Providence Creek	158637575
Glades - French	V03	Valley	1	1	Job Reference (optional)	

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 18 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 5-9-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

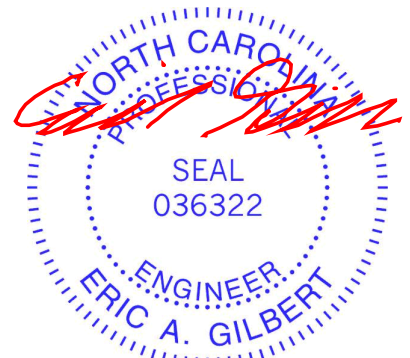
**REACTIONS** (size) 1=5-9-14, 3=5-9-14, 4=5-9-14  
 Max Horiz 1=-30 (LC 12)  
 Max Uplift 1=-3 (LC 16), 3=-8 (LC 17), 4=-5 (LC 16)  
 Max Grav 1=69 (LC 33), 3=69 (LC 34), 4=358 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-70/140, 2-3=-70/140  
 BOT CHORD 1-4=-106/57, 3-4=-106/57  
 WEBS 2-4=-231/43

- 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 3 lb uplift at joint 1, 8 lb uplift at joint 3 and 5 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 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.



May 31, 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



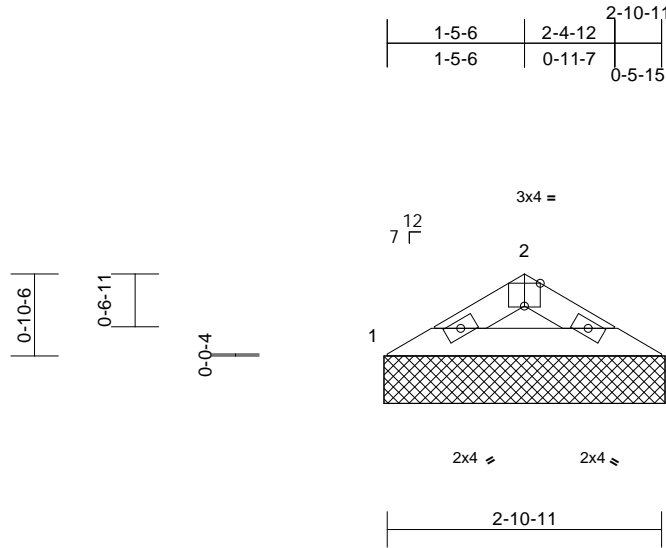
818 Soundside Road  
 Edenton, NC 27932

Job Glades - French	Truss V04	Truss Type Valley	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637576
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Page: 1



Scale = 1:24.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP							
BCDL	10.0									Weight: 8 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 2-10-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

(size) 1=2-11-9, 3=2-11-9  
Max Horiz 1=-13 (LC 12)  
Max Uplift 1=-3 (LC 16), 3=-3 (LC 17)  
Max Grav 1=119 (LC 2), 3=119 (LC 2)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-180/23, 2-3=-180/23  
BOT CHORD 1-3=-12/152

**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 3 lb uplift at joint 1 and 3 lb uplift at joint 3.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 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



May 31, 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



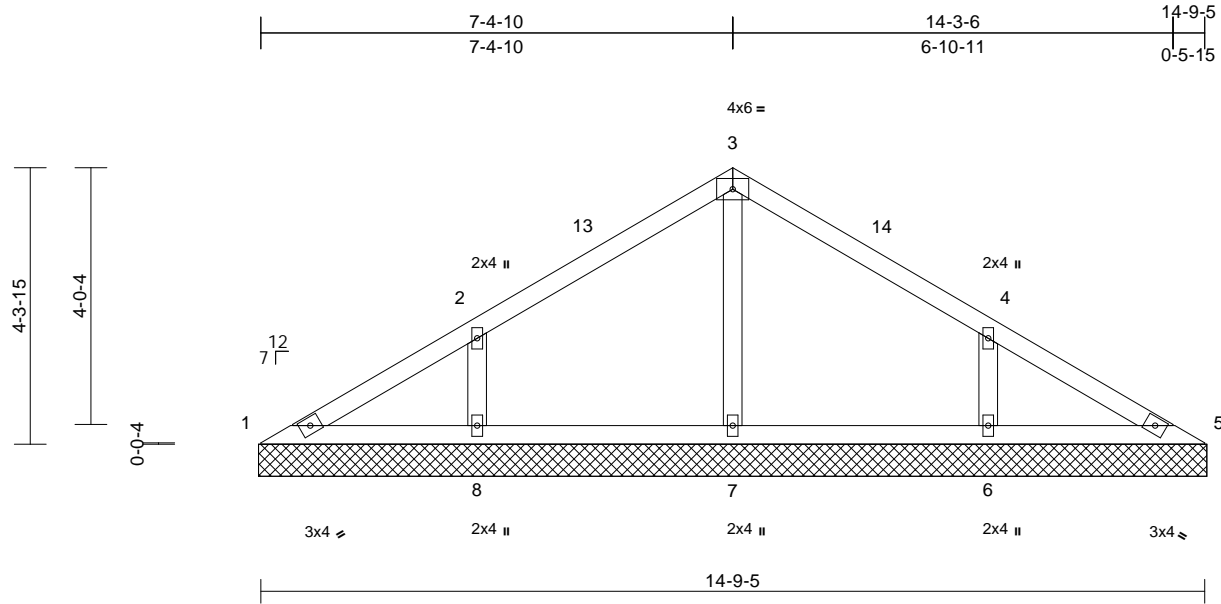


Job Glades - French	Truss V06	Truss Type Valley	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637578
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

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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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf) 13.2/20.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCLL 0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL 10.0										Weight: 56 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=14-10-2, 5=14-10-2, 6=14-10-2, 7=14-10-2, 8=14-10-2  
Max Horiz 1=-81 (LC 12)  
Max Uplift 1=-3 (LC 17), 6=-71 (LC 17), 8=-72 (LC 16)  
Max Grav 1=90 (LC 33), 5=90 (LC 34), 6=348 (LC 34), 7=326 (LC 2), 8=348 (LC 33)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-125/121, 2-3=-48/106, 3-4=-42/96, 4-5=-115/96  
BOT CHORD 1-8=-60/114, 7-8=-60/47, 6-7=-60/47, 5-6=-60/94  
WEBS 3-7=-251/6, 2-8=-255/112, 4-6=-255/112

- 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 3 lb uplift at joint 1, 72 lb uplift at joint 8 and 71 lb uplift at joint 6.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.
- 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.



May 31, 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



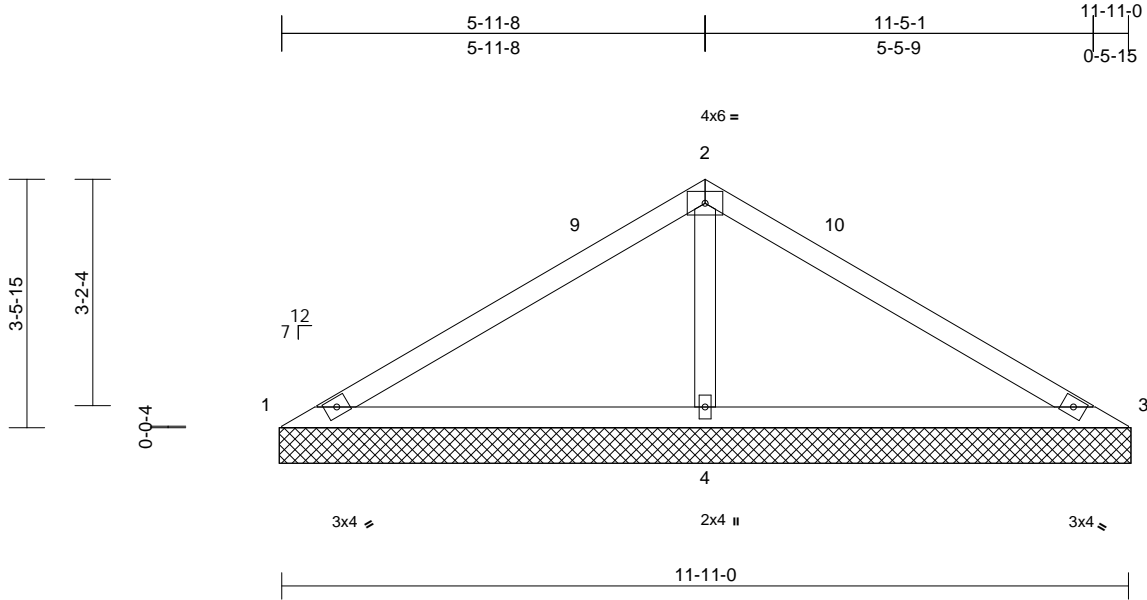
818 Soundside Road  
Edenton, NC 27932

Job Glades - French	Truss V07	Truss Type Valley	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637579
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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. Tue May 30 16:12:07  
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Page: 1



Scale = 1:32.4

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	0.43	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.37	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
											Weight: 41 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=11-11-14, 3=11-11-14, 4=11-11-14  
Max Horiz 1=-64 (LC 12)  
Max Uplift 1=-56 (LC 34), 3=-56 (LC 33), 4=-33 (LC 16)  
Max Grav 1=63 (LC 33), 3=64 (LC 34), 4=950 (LC 2)

**FORCES**

(lb) - Maximum Compression/Maximum Tension

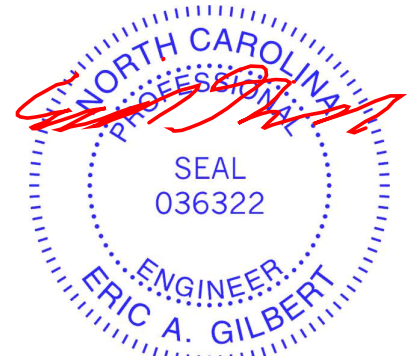
TOP CHORD 1-2=-73/508, 2-3=-73/508  
BOT CHORD 1-4=-369/108, 3-4=-369/108  
WEBS 2-4=-752/146

**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 56 lb uplift at joint 1, 56 lb uplift at joint 3 and 33 lb uplift at joint 4.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 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



May 31, 2023

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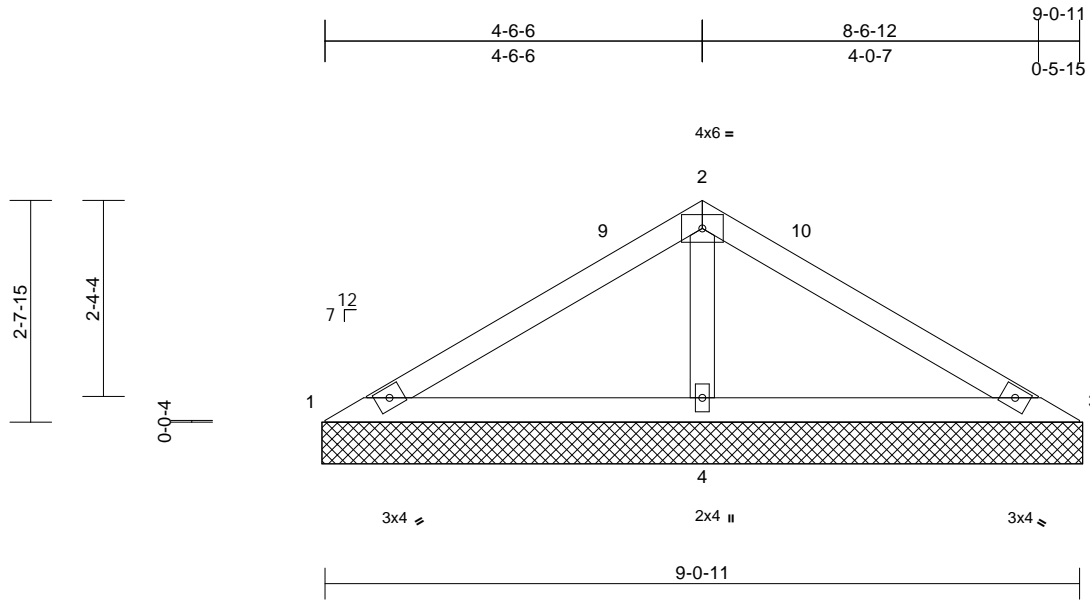
818 Soundside Road  
Edenton, NC 27932

Job Glades - French	Truss V08	Truss Type Valley	Qty 1	Ply 1	Mattamy; Glades - Lot 52 Providence Creek Job Reference (optional)	158637580
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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. Tue May 30 16:12:08  
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Page: 1



Scale = 1:27.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0											
										Weight: 30 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 9-0-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS**

(size) 1=9-1-9, 3=9-1-9, 4=9-1-9  
Max Horiz 1=-48 (LC 12)  
Max Uplift 1=-13 (LC 34), 3=-13 (LC 33), 4=-16 (LC 16)  
Max Grav 1=78 (LC 33), 3=78 (LC 34), 4=644 (LC 2)

**FORCES**

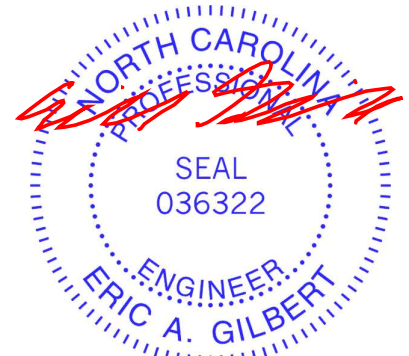
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-77/305, 2-3=-77/305  
BOT CHORD 1-4=-212/70, 3-4=-212/70  
WEBS 2-4=-485/96

**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 13 lb uplift at joint 1, 13 lb uplift at joint 3 and 16 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 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



May 31, 2023

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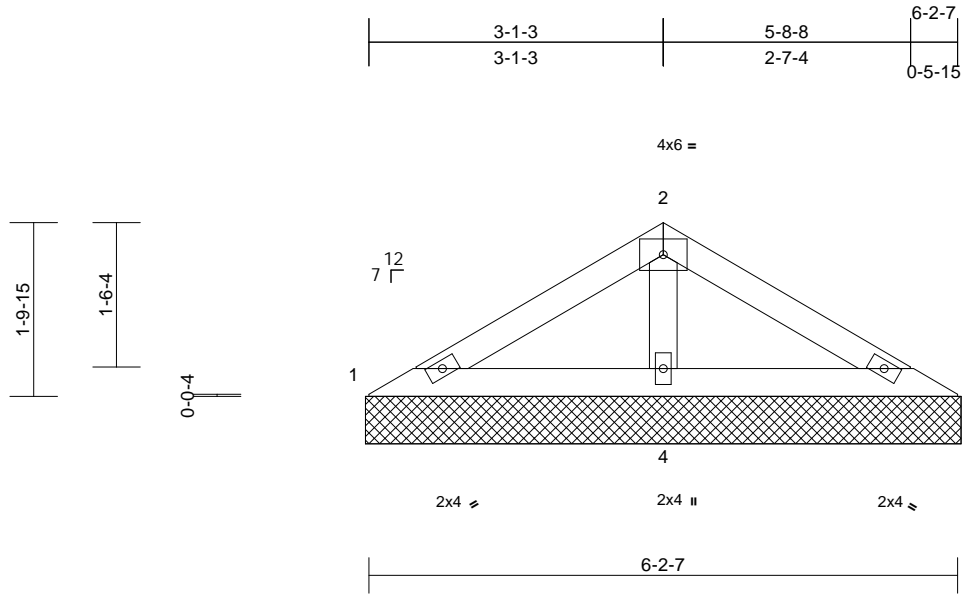
818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy; Glades - Lot 52 Providence Creek	158637581
Glades - French	V09	Valley	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. Tue May 30 16:12:08  
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Scale = 1:24.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.10	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	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 20 lb	FT = 20%

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

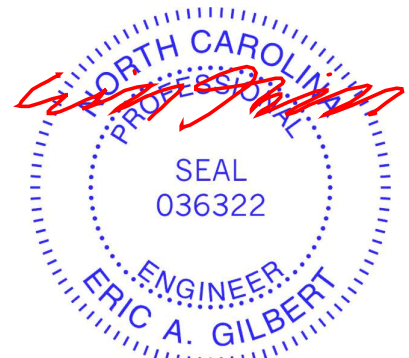
**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 6-2-7 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 1=6-3-5, 3=6-3-5, 4=6-3-5  
 Max Horiz 1=32 (LC 15)  
 Max Uplift 1=-3 (LC 16), 3=-8 (LC 17), 4=-7 (LC 16)  
 Max Grav 1=71 (LC 33), 3=71 (LC 34), 4=396 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-72/162, 2-3=-72/162  
 BOT CHORD 1-4=-123/58, 3-4=-123/58  
 WEBS 2-4=-262/51

- 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 3 lb uplift at joint 1, 8 lb uplift at joint 3 and 7 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 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



May 31, 2023

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ENGINEERING BY  
**TRENCO**  
 A MiTek Affiliate

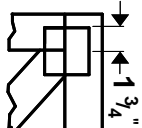
818 Soundside Road  
 Edenton, NC 27932



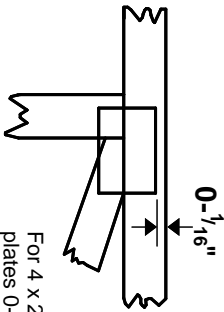


# Symbols

## PLATE LOCATION AND ORIENTATION



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



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



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

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

## PLATE SIZE

**4 X 4**

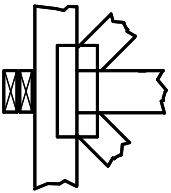
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



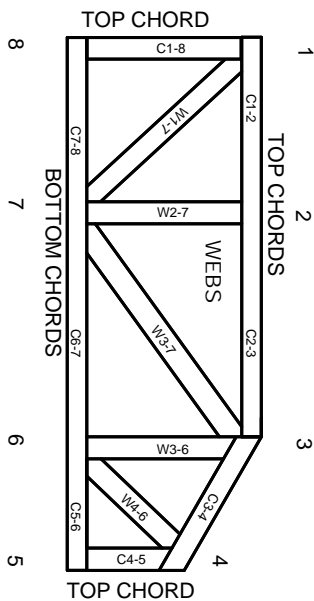
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

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

# Numbering System

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



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



# General Safety Notes

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

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