

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 26 Providence Creek - Roof Mattamy - Glades; Lot 26 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: I58225352 thru I58225386

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

North Carolina COA: C-0844



May 9,2023

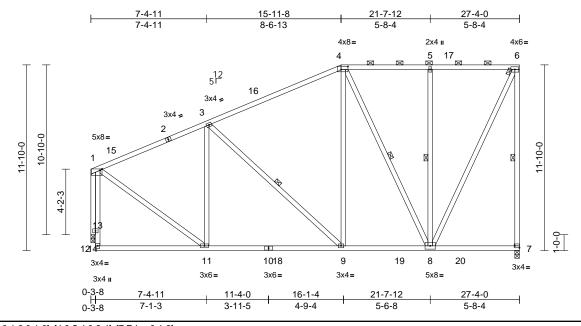
Gilbert, Eric

**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	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	A01	Piggyback Base	6	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:14 ID:xW4U3oycfk5?UnMst7UmFSzqBvc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:73.5

Plate Offsets (X, Y): [1:0-1-8,0-1-0], [4:0-5-4,0-2-4], [7:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.94	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	0.62	Horz(CT)	-0.06	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 224 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\* 6-7:2x4 SP No.1

**OTHERS** 2x4 SP No.3 BRACING

TOP CHORD

Structural wood sheathing directly applied or

4-5-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

**BOT CHORD** Rigid ceiling directly applied or 9-10-14 oc

bracing.

**WEBS** 1 Row at midpt 6-7, 4-8, 5-8, 3-9

REACTIONS 7=0-3-8 14=0-3-0 (size)

Max Horiz 14=323 (LC 15)

Max Uplift 7=-99 (LC 13), 14=-52 (LC 16) Max Grav 7=1326 (LC 36), 14=1289 (LC 35)

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

Tension

TOP CHORD 1-3=-1126/145, 3-4=-916/194, 4-5=-517/191,

5-6=-517/191, 6-7=-1242/205, 12-13=0/112,

1-13=0/112

**BOT CHORD** 11-12=-326/277, 9-11=-329/970,

8-9=-231/715, 7-8=-127/144

WEBS 4-9=-10/490, 4-8=-639/147, 5-8=-652/135,

6-8=-197/1139, 3-11=-460/143, 1-11=-69/1066, 3-9=-383/133,

1-14=-1293/112

### 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

- 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
- 3) Roof design snow load has been reduced to account for slope.
- 4) 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.
- Bearings are assumed to be: Joint 14 SP No.3 crushing capacity of 565 psi, Joint 7 SP No.2 crushing capacity of
- Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 7 and 52 lb uplift at joint 14.
- 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: 1-4=-52, 4-6=-60, 7-12=-20



May 9,2023

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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Jo	ob	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
2	6 Providence Creek -	A01G	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries. Inc. Mon May 08 14:43:16 ID:fiCij0HYI1VADxw2yIT5r8zqBvB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

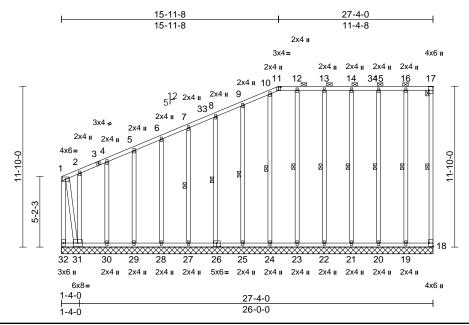


Plate Offsets (X, Y): [11:0-2-0,0-2-11], [17:Edge,0-3-8], [18:Edge,0-3-8], [26:0-3-0,0-3-0]

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	0.97	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	0.53	Horiz(TL)	-0.01	18	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 294 lb	FT = 20%

LUMBLIX	
TOP CHORD	2x4 SP No 2

Scale = 1:84.8

2x4 SP No.2 BOT CHORD

**WEBS** 2x4 SP No.2 \*Except\* 1-31:2x4 SP No.3

**OTHERS** 2x4 SP No.3 BRACING

### TOP CHORD

LIMPED

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 9-1-8 oc

bracing.

REACTIONS (size)

**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

18=27-4-0, 19=27-4-0, 20=27-4-0,

21=27-4-0, 22=27-4-0, 23=27-4-0, 24=27-4-0, 25=27-4-0, 26=27-4-0,

27=27-4-0, 28=27-4-0, 29=27-4-0, 30=27-4-0, 31=27-4-0, 32=27-4-0

Max Horiz 32=340 (LC 15)

Max Uplift

18=-19 (LC 13), 19=-25 (LC 12), 20=-25 (LC 13), 21=-17 (LC 12),

22=-14 (LC 12), 23=-23 (LC 13),

24=-27 (LC 13), 25=-28 (LC 16),

26=-25 (LC 16), 27=-21 (LC 16),

28=-24 (LC 16), 29=-19 (LC 16),

30=-37 (LC 16), 31=-1052 (LC 13)

18=92 (LC 34), 19=249 (LC 34), Max Grav

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=234 (LC 35), 31=178 (LC 35).

32=1160 (LC 13)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-290/167, 2-4=-312/190, 4-5=-260/166, 5-6=-235/159, 6-7=-203/147, 7-8=-175/138,

8-9=-154/126, 9-10=-149/138,

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,

1-32=-1691/1040

**BOT CHORD** 

31-32=-400/295, 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=-182/62, 7-27=-183/54,

6-28=-183/59, 5-29=-181/52, 4-30=-191/111,

2-31=-130/52, 1-31=-1051/1674

### 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) 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
- 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
- 4) Roof design snow load has been reduced to account for slope.
- 5) 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.
- 10) 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.



Continued on page 2

**FORCES** 

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



Ply Job Truss Truss Type Qty Mattamy - Glades; Lot 26 Providence Creek 158225353 26 Providence Creek -A01G Piggyback Base Supported Gable Job Reference (optional)

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:16 ID:fiCij0HYI1VADxw2yIT5r8zqBvB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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- 12) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 18, 25 lb uplift at joint 19, 25 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, 25 lb uplift at joint 26, 21 lb uplift at joint 27, 24 lb uplift at joint 28, 19 lb uplift at joint 29, 37 lb uplift at joint 30 and 1052 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

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

818 Soundside Road Edenton, NC 27932



Job Truss Truss Type Qtv Ply Mattamy - Glades; Lot 26 Providence Creek 158225354 26 Providence Creek -A02G Piggyback Base Supported Gable Job Reference (optional)

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:17 ID:u3t6oXSfKe3aFXvNRxIAGWzIYDu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

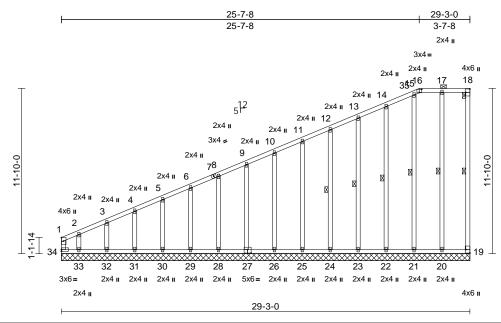


Plate Offsets (X, Y): [16:0-2-0,0-2-11], [18:Edge,0-3-8], [19:Edge,0-3-8], [27:0-3-0,0-3-0]

												-
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	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			1							Weight: 243 lb	FT = 20%

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

**WEBS** 2x4 SP No.3 \*Except\* 18-19:2x4 SP No.2

**OTHERS** 2x4 SP No.3

BRACING TOP CHORD

LUMBER

Scale = 1:82.5

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.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

**WEBS** 1 Row at midpt 18-19, 17-20, 15-21,

14-22, 13-23, 12-24

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=29-3-0

Max Horiz 34=370 (LC 13)

Max Uplift 19=-12 (LC 13), 20=-15 (LC 12),

21=-40 (LC 13), 22=-32 (LC 16), 23=-21 (LC 16), 24=-23 (LC 16), 25=-23 (LC 16), 26=-22 (LC 16),

27=-25 (LC 16), 28=-20 (LC 16), 29=-24 (LC 16), 30=-21 (LC 16),

31=-30 (LC 16), 33=-312 (LC 13) 19=93 (LC 34), 20=251 (LC 34), Max Grav

21=181 (LC 35), 22=230 (LC 35), 23=222 (LC 35), 24=223 (LC 35).

25=223 (LC 35), 26=221 (LC 35), 27=226 (LC 35), 28=185 (LC 35), 29=160 (LC 2), 30=160 (LC 2),

31=159 (LC 2), 32=165 (LC 2), 33=137 (LC 2), 34=401 (LC 13)

(lb) - Maximum Compression/Maximum

Tension

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

**BOT CHORD** 33-34=-128/142, 32-33=-128/142,

31-32=-128/142, 30-31=-128/142,

29-30=-128/142, 28-29=-128/142, 26-28=-129/143, 25-26=-129/143, 24-25=-129/143, 23-24=-129/143,

22-23=-129/143, 21-22=-129/143, 20-21=-129/143, 19-20=-129/143 17-20=-209/113, 15-21=-141/69,

14-22=-190/58, 13-23=-182/54, 12-24=-183/54, 11-25=-183/55, 10-26=-182/53. 9-27=-186/58. 8-28=-143/53.

6-29=-120/56, 5-30=-120/54, 4-31=-119/59,

3-32=-124/45, 2-33=-172/272

### NOTES

**WEBS** 

Unbalanced roof live loads have been considered for 1) 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
- 5) Roof design snow load has been reduced to account for slope
- 6) 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).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) 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.



Continued on page 2

**FORCES** 

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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Ply Job Truss Truss Type Qty Mattamy - Glades; Lot 26 Providence Creek 158225354 26 Providence Creek -A02G Piggyback Base Supported Gable Job Reference (optional)

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:17 ID:u3t6oXSfKe3aFXvNRxIAGWzIYDu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- 13) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 14) 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.
- 15) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

### LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00

Uniform Loads (lb/ft)

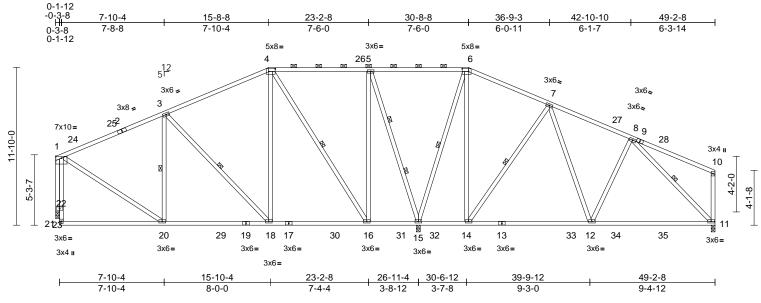
Vert: 1-16=-52, 16-18=-60, 19-34=-20



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	A03	Piggyback Base	3	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:18 ID:CUR0mdXDVAxnXW8orMpiONzqBsH-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:86.5

Plate Offsets (X, Y): [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	0.95	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)	0.05	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 369 lb	FT = 20%

### LUMBER

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

4-6:2x4 SP SS

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-11-14 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, Except:

2-2-0 oc bracing: 12-14,11-12.

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

**WEBS** 2 Rows at 1/3 pts 5-15

**REACTIONS** 11=0-3-8, 15=0-3-8, 23=0-3-8 (size)

Max Horiz 23=-85 (LC 12)

Max Uplift 11=-38 (LC 17), 15=-80 (LC 13),

23=-58 (LC 16)

Max Grav 11=920 (LC 45), 15=2395 (LC 45),

23=1164 (LC 39)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-1022/155, 3-4=-747/199, 4-5=-274/182, 5-6=0/302, 6-7=-228/160, 7-8=-817/172,

8-10=-111/106, 21-22=0/135, 1-22=0/135,

10-11=-174/92

**BOT CHORD** 20-21=-25/116, 18-20=-48/857, 16-18=0/596, 15-16=0/300, 14-15=-25/173, 12-14=-1/539,

11-12=-65/684

3-20=-324/129, 3-18=-495/120, 4-18=0/607,

4-16=-864/93, 5-16=0/941, 5-15=-1480/164,

6-15=-1236/142, 6-14=-46/917,

1-20=-55/904, 8-11=-940/60, 7-14=-818/170,

7-12=-8/422, 8-12=-112/145, 1-23=-1168/110

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph: TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.33
- \*\* TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- 5) 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 8) 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.
- Bearings are assumed to be: Joint 23 SP No.3 crushing capacity of 565 psi, Joint 15 SP No.2 crushing capacity of 565 psi, Joint 11 SP No.2 crushing capacity of 565
- 10) Bearing at joint(s) 23 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 80 lb uplift at joint 15, 38 lb uplift at joint 11 and 58 lb uplift at joint 23.

- 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) 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, 6-10=-52, 11-21=-20



May 9,2023

**NOTES** 

**WEBS** 

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

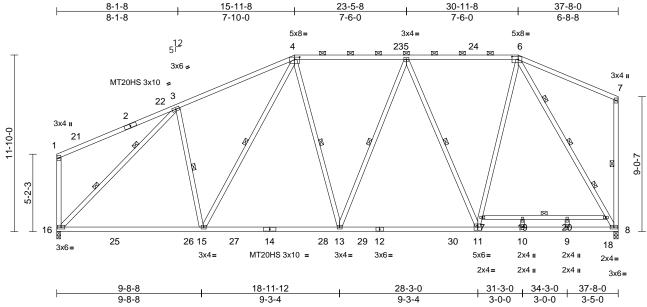
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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 ANS/ITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Jo	ob	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
20	26 Providence Creek -	A04A	Piggyback Base	2	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:19 ID:MvowjkNDjyp9d85TvOfzBpzrAd7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:77.3

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	0.81	Vert(LL)	-0.26	11-13	>999	240	MT20HS	187/143
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.44	15-16	>999	180	MT20	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 286 lb	FT = 20%

### LUMBER

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

1-2:2x4 SP No.2

BOT CHORD 2x4 SP No.1

WEBS 2x4 SP No.3 \*Except\* 16-3,8-7,17-18:2x4 SP

No.2, 8-6:2x4 SP SS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-1-1 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, 17-18

**WEBS** 2 Rows at 1/3 pts 3-16

**WEBS** 3 Rows at 1/4 pts

REACTIONS 8=0-3-8, 16=0-3-0 (size)

Max Horiz 16=260 (LC 13)

Max Uplift 8=-86 (LC 13), 16=-26 (LC 16)

Max Grav 8=1882 (LC 37), 16=1793 (LC 44)

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

Tension

TOP CHORD 1-3=-152/138, 3-4=-1729/291,

4-5=-1508/270, 5-6=-1182/247

6-7=-175/182, 1-16=-266/117, 7-8=-302/140

**BOT CHORD** 15-16=-356/1441, 13-15=-275/1424,

11-13=-247/1490, 10-11=-176/1012,

9-10=-176/1012, 8-9=-176/1012

3-16=-2009/201, 6-18=-1784/229,

8-18=-1946/221, 3-15=-14/576,

4-15=-231/260, 4-13=-70/386, 5-13=-146/345, 5-11=-803/165

11-17=-45/1147 6-17=-50/1239

17-19=-118/7, 19-20=-118/7, 18-20=-118/7,

10-19=-132/15, 9-20=-28/47

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph: TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.33
- \*\* TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps= varies (min. roof snow=15.8 psf Lumber DOL=1.15 Plate DOL=1.00) see load cases; Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.
- 5) 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.
- 10) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 11) 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.
- 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) 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, 6-7=-52, 8-16=-20, 17-19=-40, 19-20=-40, 18-20=-40



NOTES

WFBS

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

Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining 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

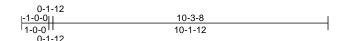
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

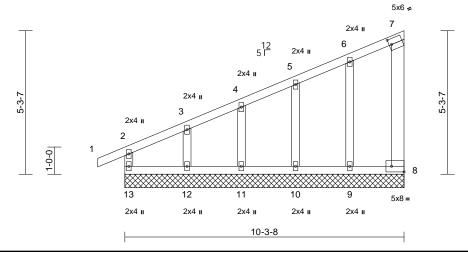


Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	A04G	Monopitch Supported Gable	1	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:20 ID:8f3Is1?AeXy5wrlSWLRud9zqBCM-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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=-122/61,

3-12=-112/69, 2-13=-170/106

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
- 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.
- 5) 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.
- 12) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 13) 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.
- 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 9,2023

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\*\*AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job		Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence	Creek -	A05A	Piggyback Base	3	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:20 ID:uStDOJu0HX2Vw7s8kFAD8fzrC27-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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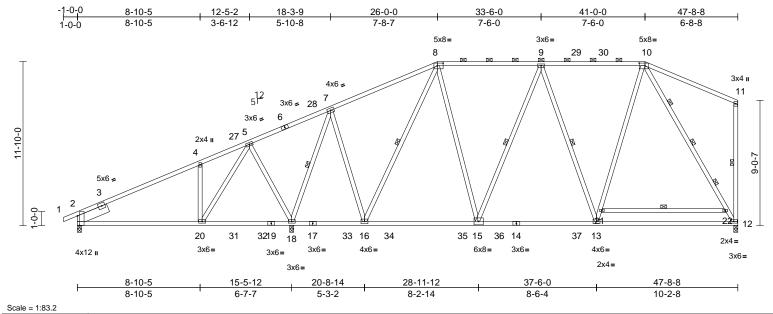


Plate Offsets (X, Y): [2:0-8-3,Edge], [8:0-5-0,0-2-4], [10:0-5-0,0-2-4]

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	12-13	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.52	12-13	>743	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.06	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0	1		1							Weight: 340 lb	FT = 20%

### LUMBER

2x4 SP No.1 \*Except\* 8-10:2x4 SP SS, TOP CHORD

1-6:2x4 SP No.2

BOT CHORD 2x4 SP No.2 \*Except\* 14-12:2x4 SP No.1 WEBS

2x4 SP No.3 \*Except\* 12-10:2x4 SP No.1, 21-22:2x4 SP SS

**SLIDER** Left 2x8 SP DSS -- 2-5-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-9-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-10 max.): 8-10. Rigid ceiling directly applied or 8-8-13 oc

**BOT CHORD** bracing.

**WEBS** 1 Row at midpt 11-12, 21-22, 9-13, 8-16,

9-15, 7-18

**WEBS** 3 Rows at 1/4 pts 10-12

REACTIONS (size) 2=0-3-8, 12=0-3-8, 18=0-3-8

Max Horiz 2=279 (LC 15)

Max Uplift 2=-90 (LC 16), 12=-89 (LC 13) 2=748 (LC 54), 12=1706 (LC 38), Max Grav

18=2125 (LC 45)

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

Tension

TOP CHORD 1-2=0/38, 2-4=-820/214, 4-5=-883/300 5-7=-203/221, 7-8=-916/326, 8-9=-1136/294,

9-10=-1065/262, 10-11=-171/181,

11-12=-298/139

BOT CHORD 2-20=-517/757, 18-20=-350/405,

16-18=-311/576, 15-16=-256/997

13-15=-232/1251, 12-13=-181/921 WFBS

13-21=-19/804, 10-21=-44/995, 10-22=-1553/225, 12-22=-1785/251,

21-22=-146/16, 9-13=-568/161, 8-16=-705/1,

9-15=-363/83, 8-15=0/615, 4-20=-399/191,

5-20=-134/680. 5-18=-619/150.

7-18=-1555/95, 7-16=0/925

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

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

- Roof design snow load has been reduced to account for slope.
- 5) 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 9) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi, Joint 18 SP No.2 crushing capacity of 565 psi, Joint 12 SP No.1 crushing capacity of 565
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 2 and 89 lb uplift at joint 12.

- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 14) 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: 1-8=-52, 8-10=-60, 10-11=-52, 12-23=-20, 21-22=-40 (F)



NOTES

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

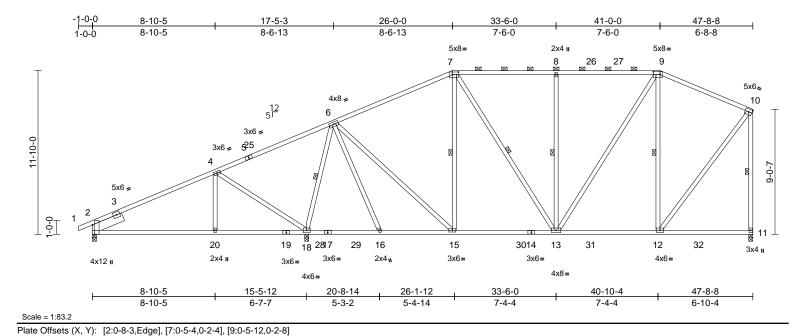
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

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



Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	A06	Piggyback Base	5	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:21 ID:q8wEr8HTJbxNGsKzepNLK?zqBEb-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/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

2=0-3-8, 11=0-3-8, 18=0-3-8 **REACTIONS** (size)

Max Horiz 2=279 (LC 15)

2=-84 (LC 16), 11=-64 (LC 13), Max Uplift

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=-792/216,

10-12=-145/1208

### NOTES

- Unbalanced roof live loads have been considered for 1) 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.
- 5) 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.
- 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) 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.
- 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) 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 9,2023

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



Job Truss Truss Type Qty Ply Mattamy - Glades; Lot 26 Providence Creek 158225360 26 Providence Creek -A06G Piggyback Base Supported Gable Job Reference (optional) Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:22 Builders FirstSource (Apex, NC), Apex, NC - 27523 Page: 1 ID:oP9Sw8SDPCzNmo9r2hecFhzrASh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -1-0-0 1-0-0 26-0-0 41-0-0 26-0-0 15-0-0 6-5-0 2x4 II 2x4 II 2x4 II 2x4 II 2x4 II 2x4 II 3x6= 2x4 II 2x4 II 2x4 II 5x6= 2x4 II 19 20 22 61 23 6224 25 2x4 II 17 18 21 12 5 2x4 II 16 26 2x4 15 27 3x4 ı 2x4 II 28 13 3x6 = 160 2x4 II 2x4 II 10 8959 2x4 II 9-1-15 2x4 II 6 2x4 II 5 6x8 = Δ 3 9-9-29 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 387 36 35 34 33 32 31 30 2x4 II 3x6= 2x4 II 2x4 II 3x6= 2x4 II 2x4 II 2x4 II 2x4 ı 47-5-0 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] 2-0-0 CSI DEFL in I/defI L/d **PLATES** GRIP Loading (psf) Spacing (loc) TCLL (roof) 20.0 Plate Grip DOL 1.00 TC 0.62 Vert(LL) 999 MT20 244/190 n/a n/a Snow (Ps/Pf) 15.8/20.0 Lumber DOL 1.15 BC 0.17 Vert(CT) n/a n/a 999 TCDL Rep Stress Incr WB 10.0 YES 0.21 Horz(CT) -0.01 29 n/a **BCLL** 0.0 IRC2015/TPI2014 Matrix-MS Code BCDL 10.0 Weight: 440 lb FT = 20%LUMBER Max Uplift 29=-26 (LC 12), 30=-22 (LC 17), TOP CHORD 1-2=0/38, 2-3=-176/101, 3-4=-334/174, 31=-29 (LC 17), 32=-2 (LC 13), 4-5=-301/162, 5-6=-272/151, 6-7=-242/141, TOP CHORD 2x4 SP No.2 33=-15 (LC 13), 34=-14 (LC 12), 7-8=-212/130, 8-10=-181/120, 2x4 SP No.2 **BOT CHORD** 10-11=-151/109, 11-12=-123/99, 35=-13 (LC 13), 36=-13 (LC 12), **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3 38=-12 (LC 13), 39=-18 (LC 12), 12-13=-113/93, 13-14=-112/123, 40=-11 (LC 13), 42=-29 (LC 16), 14-15=-122/153, 15-16=-135/186, Left 2x8 SP DSS -- 1-0-15 **SLIDER** 43=-22 (LC 16), 44=-23 (LC 16), 16-17=-133/193, 17-18=-125/193, BRACING 45=-23 (LC 16), 47=-23 (LC 16), 18-19=-125/193, 19-20=-125/193, TOP CHORD Structural wood sheathing directly applied or 48=-23 (LC 16), 49=-23 (LC 16), 20-21=-125/193, 21-22=-125/193, 6-0-0 oc purlins, except end verticals, and 50=-23 (LC 16), 51=-23 (LC 16), 22-23=-125/193, 23-24=-125/193 2-0-0 oc purlins (6-0-0 max.): 17-25. 52=-22 (LC 16), 53=-25 (LC 16), 24-25=-125/193, 25-26=-139/199, **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc 54=-167 (LC 16) 26-27=-124/165, 27-28=-131/153, bracing. Max Grav 2=235 (LC 13), 29=108 (LC 39) 28-29=-120/117 WEBS 1 Row at midpt 28-29, 25-32, 24-33, 30=263 (LC 39), 31=225 (LC 39), 23-34, 22-35, 21-36, 32=159 (LC 38), 33=252 (LC 38), 20-38, 19-39, 18-40, 34=239 (LC 38), 35=240 (LC 38), 16-41, 15-42, 14-43, 36=240 (LC 38), 38=239 (LC 38), 13-44, 26-31, 27-30 39=243 (LC 38), 40=224 (LC 38), REACTIONS (size) 2=47-5-0, 29=47-5-0, 30=47-5-0, 41=209 (LC 39), 42=226 (LC 39), 31=47-5-0, 32=47-5-0, 33=47-5-0, 43=222 (LC 39), 44=223 (LC 39), 34=47-5-0, 35=47-5-0, 36=47-5-0, 45=223 (LC 39), 47=223 (LC 39), 38=47-5-0, 39=47-5-0, 40=47-5-0, 48=222 (LC 39), 49=160 (LC 39), 41=47-5-0, 42=47-5-0, 43=47-5-0, ORTH 50=160 (LC 2), 51=160 (LC 54), 44=47-5-0, 45=47-5-0, 47=47-5-0, 52=159 (LC 2), 53=163 (LC 54), 48=47-5-0, 49=47-5-0, 50=47-5-0, 54=109 (LC 54), 55=235 (LC 13) 51=47-5-0, 52=47-5-0, 53=47-5-0, **FORCES** (lb) - Maximum Compression/Maximum 54=47-5-0, 55=47-5-0 Tension Max Horiz 2=283 (LC 15), 55=283 (LC 15) SEAL

Continued on page 2

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



May 9,2023

Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	A06G	Piggyback Base Supported Gable	1	1	I58225360 Job Reference (optional)

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

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,

3-54=-138/243, 26-31=-187/63,

10-48=-182/54, 8-49=-120/54, 7-50=-120/54, 6-51=-120/55, 5-52=-119/53, 4-53=-123/60,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:22 ID:oP9Sw8SDPCzNmo9r2hecFhzrASh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

2-54=-95/106. 53-54=-95/106. 16) Graphical purlin representation does not depict the size 52-53=-95/106, 51-52=-95/106, or the orientation of the purlin along the top and/or 50-51=-95/106, 49-50=-95/106, bottom chord. 48-49=-95/106, 47-48=-95/106,

### LOAD CASE(S) Standard

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

### NOTES

**WEBS** 

BOT CHORD

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

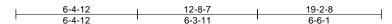
27-30=-215/95

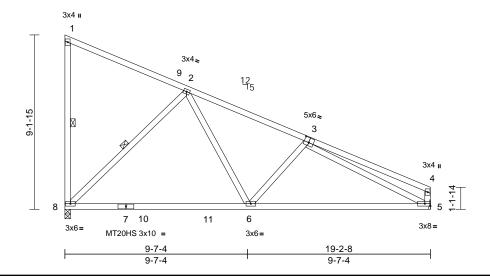
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- 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
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 14) 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.
- 15) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	A07	Roof Special	10	1	I58225361 Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:24 ID:6xt2FPT38iCwxRVi6F6G1gzqBAT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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	0.72	Vert(LL)	-0.30	6-8	>749	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.51	6-8	>448	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.87	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 5= Mechanical, 8=0-3-8 REACTIONS (size)

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) 1) 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.

- 4) Unbalanced snow loads have been considered for this design.
- 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.
- Bearings are assumed to be: Joint 8 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- 10) 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.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



May 9,2023

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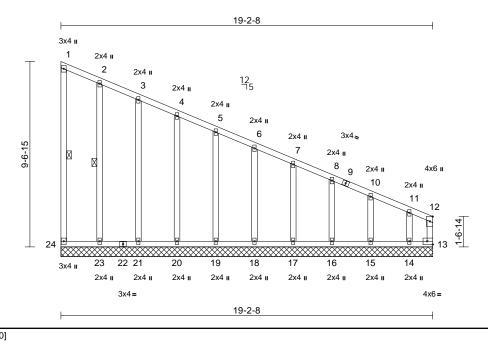
\*\*AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	A07G	Roof Special Supported Gable	1	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:24 ID:nlS794IDHIZsOFpUGhouzpzqB6q-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:59.5

Plate Offsets (X,	Y):	[13:Edge,0-2-	0	۱
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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	0.70	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

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

> 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

WFBS

- 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
- 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 4) slope.
- 5) Unbalanced snow loads have been considered for this
- 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.

- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) 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.
- 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 9,2023

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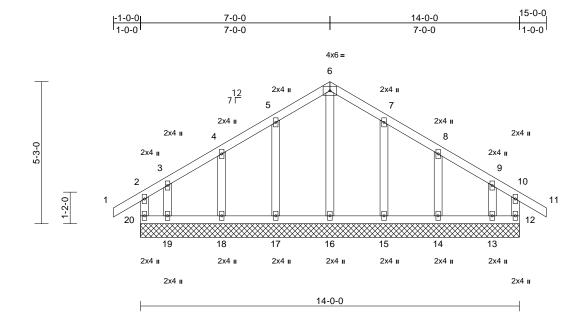
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	B01G	Common Supported Gable	1	1	I58225363 Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries. Inc. Mon May 08 14:43:25 ID:B7TLvfVG4hiCZ1?J8AvEOnzladT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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	1		1							Weight: 79 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS 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)

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 Horiz 20=117 (LC 15)

Max Uplift 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)

Max Grav 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

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
- 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).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) 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.
- 13) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 14) 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.
- 15) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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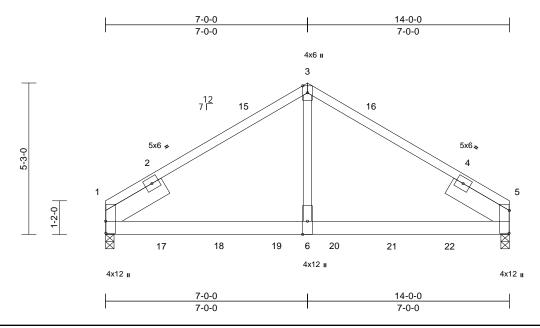
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Job Truss Truss Type Qty Mattamy - Glades: Lot 26 Providence Creek 158225364 3 26 Providence Creek -B01GR Common Girder Job Reference (optional)

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:25 ID:74kiTg68zguFMOimBNNwGmzlbG?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 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

BRACING

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

SLIDER Left 2x8 SP DSS -- 2-5-0, Right 2x8 SP DSS

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

1=79 (LC 11) Max Horiz

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

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

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.

- 4) 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.
- 7) 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.
- 10) All bearings are assumed to be SP DSS crushing capacity of 660 psi.
- 11) 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.
- 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) 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

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 (B), 18=-1236 (B), 19=-1236 (B), 20=-1236 (B), 21=-1236 (B), 22=-1236 (B)



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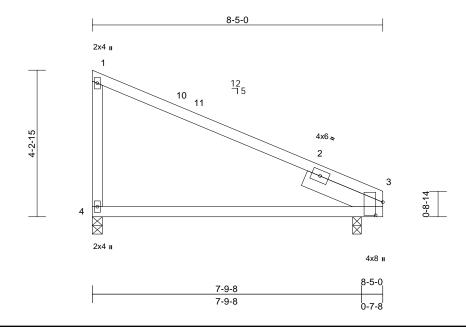
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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



Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	C01	Roof Special	2	1	I58225365 Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:25 ID: 6xt2FPT38 iCwxRV i6F6G1gzqBAT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:33.4

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

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	0.98	Vert(LL)	-0.13	4-9	>747	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.32	4-9	>308	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.08	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 37 lb	FT = 20%

### LUMBER

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

SLIDER Right 2x6 SP No.2 -- 2-5-0

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (size) 3=0-3-0, 4=0-3-8

Max Horiz 4=-109 (LC 14)

Max Uplift 3=-11 (LC 17), 4=-20 (LC 17)

Max Grav 3=364 (LC 2), 4=301 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-210/137, 1-3=-414/365

BOT CHORD 3-4=-91/177

### 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) 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
- 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
- Unbalanced snow loads have been considered for this
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 4 and 11 lb uplift at joint 3.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

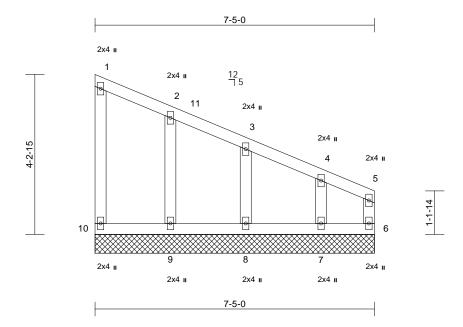
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Ply Job Truss Truss Type Qty Mattamy - Glades; Lot 26 Providence Creek 158225366 26 Providence Creek -C01G Roof Special Supported Gable Job Reference (optional)

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:26 ID:JIMJNw4xWmIQDUR1CvTgF0zqB76-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 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 2x4 SP No.3 WFBS 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)

6=102 (LC 12), 7=144 (LC 2), Max Grav

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

2-9=-128/83, 3-8=-122/77, 4-7=-112/146

### WFBS NOTES

- Wind: ASCE 7-10; Vult=115mph (3-second gust) 1) 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
- 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
- 4) Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this 5) 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.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) 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.
- 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



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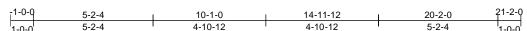
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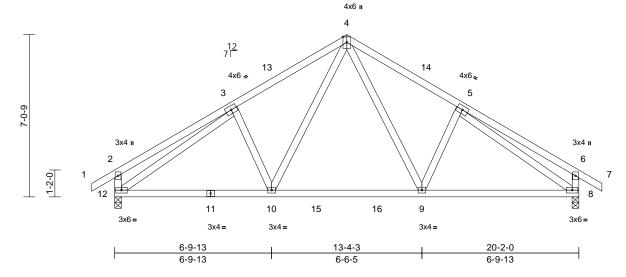
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	D01	Common	1	1	I58225367 Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:26 ID:UkwQxsnJQ3koRjrwYCLsNrzlad5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:50.1

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	0.31	Vert(LL)	-0.08	9-10	>999	240	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.11	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 121 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS

### **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

10-12=-42/855, 9-10=0/616, 8-9=-16/791 **BOT CHORD** 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

### NOTES

- Unbalanced roof live loads have been considered for
- 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 slipperv surface
- Roof design snow load has been reduced to account for slope

- 5) 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) 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.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



May 9,2023

Page: 1

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

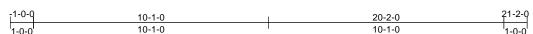
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

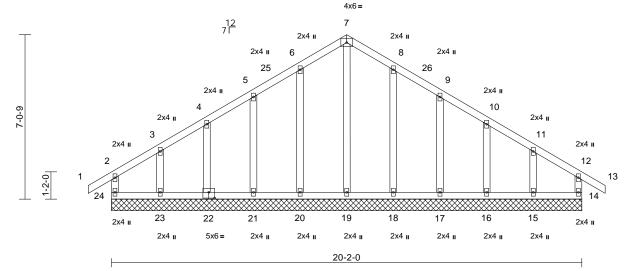
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	D01G	Common Supported Gable	1	1	I58225368 Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries. Inc. Mon May 08 14:43:27 ID:MV9wnEqqTHEDwK8in2PoXhzlad1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:49.4

Plate Offsets (X, Y): [22:0-3-0,0	-3-0]	
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/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	1	
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	14	n/a	n/a	1	
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR							1	
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

**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

- 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 6) 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).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

12) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Page: 1

- 13) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 14) 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.
- 15) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

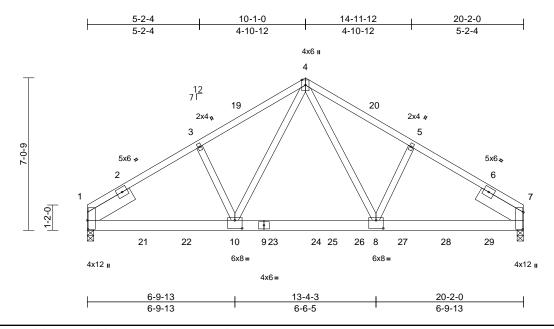


Ply Job Truss Truss Type Qtv Mattamy - Glades; Lot 26 Providence Creek 158225369 3 26 Providence Creek -D01GR Common Girder Job Reference (optional)

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:27 ID:7pCHvsuTzSlgpnuVhJZx4AzlbGG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

BRACING

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

SLIDER Left 2x8 SP DSS -- 2-5-0, Right 2x8 SP DSS

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

> 1=-114 (LC 33) Max Horiz

Max Uplift 1=-224 (LC 12), 7=-208 (LC 13) 1=4665 (LC 2), 7=4319 (LC 2) Max Grav

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

- 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
  - 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. 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.

- 3) 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
- 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.
- 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at ioint 1 and 208 lb uplift at joint 7.
- 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) 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

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 (B), 13=-687 (B), 21=-683 (B), 22=-683 (B), 23=-683 (B), 24=-683 (B), 26=-683 (B),

27=-683 (B), 28=-683 (B), 29=-683 (B)



May 9,2023

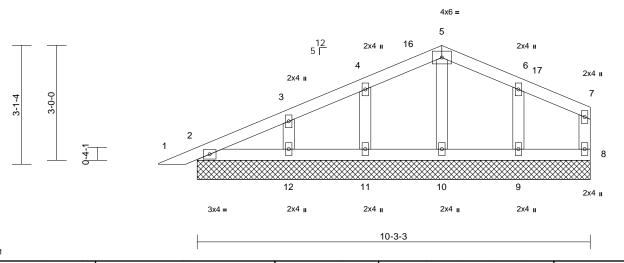
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Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	PB01	Piggyback	6	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:28 ID:?w3GtGul1GaBt3IGcm3sDBzIZYX-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





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(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	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 2x4 SP No.3 WFBS OTHERS 2x4 SP No.3

### **BRACING**

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

2=10-3-3, 8=10-3-3, 9=10-3-3, 10=10-3-3, 11=10-3-3, 12=10-3-3,

13=10-3-3

Max Horiz 2=52 (LC 20), 13=52 (LC 20) Max Uplift 2=-9 (LC 12), 8=-3 (LC 17), 9=-28

(LC 17), 11=-24 (LC 16), 12=-28 (LC 16), 13=-9 (LC 12)

Max Grav 2=127 (LC 2), 8=60 (LC 2), 9=170 (LC 24), 10=146 (LC 2), 11=159 (LC 34), 12=194 (LC 2), 13=127

(LC 2)

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

Tension

1-2=0/25, 2-3=-42/27, 3-4=-38/35, TOP CHORD 4-5=-45/71, 5-6=-45/71, 6-7=-30/34,

7-8=-45/30

BOT CHORD 2-12=-13/22, 11-12=-12/17, 10-11=-12/17,

9-10=-12/17, 8-9=-12/17

WFBS 5-10=-104/19, 4-11=-126/70, 3-12=-132/68,

6-9=-130/72

### 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=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
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 10) 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.
- 12) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 8, 9 lb uplift at joint 2, 24 lb uplift at joint 11, 28 lb uplift at joint 12, 28 lb uplift at joint 9 and 9 lb uplift at joint 2.

14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Page: 1

15) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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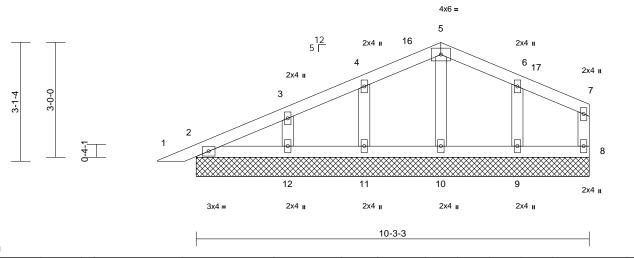
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



ſ	Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
	26 Providence Creek -	PB01G	Piggyback	1	1	I58225371 Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:28 ID:bRgwzDPd2LGmcovuoYZa1WzlayE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 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(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0			1							Weight: 44 lb	FT = 20%

### LUMBER

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

### **BRACING** TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size)

2=10-3-3, 8=10-3-3, 9=10-3-3, 10=10-3-3, 11=10-3-3, 12=10-3-3,

13=10-3-3

Max Horiz 2=52 (LC 20), 13=52 (LC 20) Max Uplift 2=-9 (LC 12), 8=-3 (LC 17), 9=-28

(LC 17), 11=-24 (LC 16), 12=-28 (LC 16), 13=-9 (LC 12)

Max Grav 2=127 (LC 2), 8=60 (LC 2), 9=170 (LC 24), 10=146 (LC 2), 11=159 (LC 34), 12=194 (LC 2), 13=127

(LC 2)

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

Tension

1-2=0/25, 2-3=-42/27, 3-4=-38/35, TOP CHORD 4-5=-45/71, 5-6=-45/71, 6-7=-30/34,

7-8=-45/30

BOT CHORD 2-12=-13/22, 11-12=-12/17, 10-11=-12/17,

9-10=-12/17, 8-9=-12/17

WFBS 5-10=-104/19, 4-11=-126/70, 3-12=-132/68,

6-9=-130/72

### 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=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
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 10) 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.
- 12) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 8, 9 lb uplift at joint 2, 24 lb uplift at joint 11, 28 lb uplift at joint 12, 28 lb uplift at joint 9 and 9 lb uplift at joint 2.

- 14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



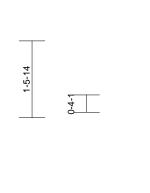
Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	PB02G	Piggyback	1	1	Job Reference (optional)

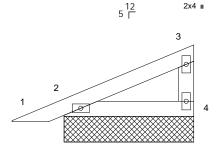
Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries. Inc. Mon May 08 14:43:28 ID:3qP8GEYElvk4NAF86OQpGvzIYF2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

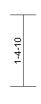
2x4 ıı

Page: 1

-1-0-2	2-6-3
1-0-2	2-6-3







2-6-3

Scale = 1:22.4

Loading	(psf)	Spacing	2-0-0	csı		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	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 11 lb	FT = 20%

2x4 =

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS

### **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) 2=2-6-3, 4=2-6-3, 5=2-6-3 Max Horiz 2=37 (LC 15), 5=37 (LC 15) Max Uplift 2=-15 (LC 16), 4=-7 (LC 16), 5=-15

(LC 16) Max Grav 2=139 (LC 2), 4=92 (LC 2), 5=139

(LC 2)

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

Tension

TOP CHORD 1-2=0/25, 2-3=-36/26, 3-4=-57/38

BOT CHORD 2-4=-17/27

- 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pf=20.0 psf (flat roof snow); Ps=15.8 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10; Unobstructed slippery surface
- Roof design snow load has been reduced to account for slope.

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 4, 15 lb uplift at joint 2 and 15 lb uplift at joint 2.
- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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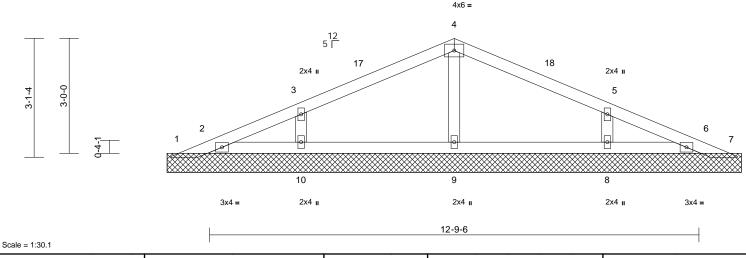


Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	PB03	Piggyback	13	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries. Inc. Mon May 08 14:43:29 ID:7eIJVz1PPMa6p77vMSA\_oJzIZQb-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	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	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 49 lb	FT = 20%

### LUMBER

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

**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

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

TOP CHORD

- 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 5) slope.
- 6) 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.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) 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.
- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



May 9,2023

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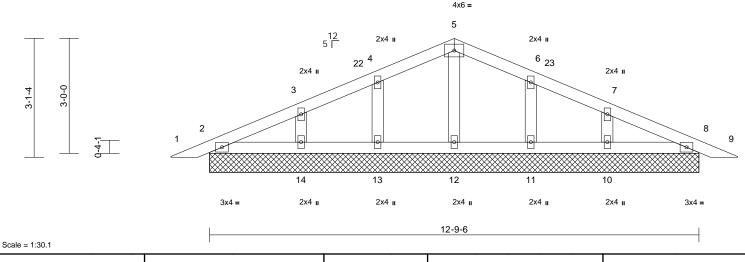
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	PB03G	Piggyback	1	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:29 ID:EBIkLL3hYdAJEVFO1cGnxBzlae1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	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 2x4 SP No.3 OTHERS

**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=12-9-6, 8=12-9-6, 10=12-9-6, 11=12-9-6, 12=12-9-6, 13=12-9-6, 14=12-9-6, 15=12-9-6, 19=12-9-6

Max Horiz 2=38 (LC 16), 15=38 (LC 16) Max Uplift 2=-9 (LC 12), 8=-11 (LC 17), 10=-27 (LC 17), 11=-25 (LC 17),

13=-25 (LC 16), 14=-27 (LC 16), 15=-9 (LC 12), 19=-11 (LC 17)

Max Grav 2=128 (LC 2), 8=128 (LC 2), 10=194 (LC 2), 11=160 (LC 24), 12=145 (LC 2), 13=160 (LC 23), 14=194 (LC 2), 15=128 (LC 2),

19=128 (LC 2)

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

Tension TOP CHORD

1-2=0/25, 2-3=-35/30, 3-4=-35/40, 4-5=-37/70, 5-6=-37/70, 6-7=-35/36,

7-8=-30/19, 8-9=0/25

**BOT CHORD** 2-14=-8/37, 13-14=-7/37, 12-13=-7/37,

11-12=-7/37, 10-11=-7/37, 8-10=-8/37 WEBS

5-12=-101/0, 4-13=-126/64, 3-14=-132/63,

6-11=-126/64, 7-10=-132/63

### 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
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 10) 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.
- 12) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 2, 11 lb uplift at joint 8, 25 lb uplift at joint 13, 27 lb uplift at joint 14, 25 lb uplift at joint 11, 27 lb uplift at joint 10, 9 Ib uplift at joint 2 and 11 lb uplift at joint 8.

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.

Page: 1

15) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

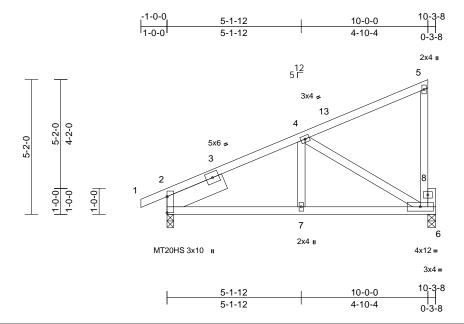


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Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	SP01	Monopitch	11	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:29 ID:ml0wMegVP\_?fai03hUb9g0zIYEu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:44.2

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	0.30	Vert(LL)	-0.02	6-7	>999	240	MT20	244/190
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.03	6-7	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	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

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3 **OTHERS** 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=154 (LC 15)

Max Uplift 2=-28 (LC 16), 6=-48 (LC 16) Max Grav 2=463 (LC 2), 6=406 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/38, 2-4=-393/95, 4-5=-109/63,

5-6=-145/80

**BOT CHORD** 2-7=-235/399, 6-7=-186/399 4-7=0/203, 4-6=-444/162

### **WEBS** NOTES

- Wind: ASCE 7-10; Vult=115mph (3-second gust) 1) 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

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 2 and 48 lb uplift at joint 6.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

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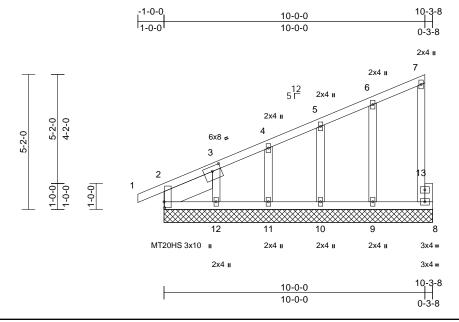
\*\*AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	SP01G	Monopitch Supported Gable	1	1	I58225376 Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:30 ID:7GvXYLE6vwEiUcTqxWixyxzIYYq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:44.2

Plate Offsets (X, Y):	[2:0-2-12,0-0-4],	[3:0-4-0,0-2-4]
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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	0.18	Vert(LL)	n/a	-	n/a	999	MT20HS	187/143
Snow (Ps/Pf)	15.8/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 63 lb	FT = 20%

### LUMBER

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

Left 2x8 SP DSS -- 2-1-15 **SLIDER** 

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=10-3-8, 8=10-3-8, 9=10-3-8, 10=10-3-8, 11=10-3-8, 12=10-3-8,

14=10-3-8

Max Horiz 2=154 (LC 15), 14=154 (LC 15) Max Uplift 8=-14 (LC 13), 9=-31 (LC 16),

10=-20 (LC 16), 11=-23 (LC 16),

12=-57 (LC 16)

Max Grav 2=160 (LC 22), 8=70 (LC 23), 9=197 (LC 23), 10=161 (LC 23),

11=162 (LC 2), 12=155 (LC 2),

14=160 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/38, 2-3=-33/44, 3-4=-167/98, 4-5=-131/85, 5-6=-97/73, 6-7=-64/56,

7-8=-54/38

**BOT CHORD** 2-12=-65/72, 11-12=-65/72, 10-11=-65/72,

9-10=-65/72, 8-9=-65/72

**WEBS** 6-9=-152/79, 5-10=-122/68, 4-11=-122/68,

3-12=-114/130

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
- 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.
- 5) 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.
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 8, 31 lb uplift at joint 9, 20 lb uplift at joint 10, 23 lb uplift at joint 11 and 57 lb uplift at joint 12.

14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

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\*\*AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	V01	Valley	1	1	I58225377 Job Reference (optional)

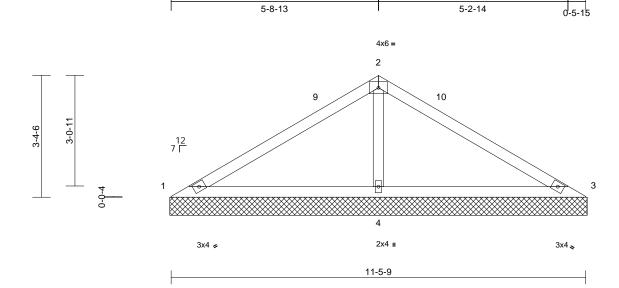
5-8-13

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

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries. Inc. Mon May 08 14:43:30 ID:FNZ0uCo8CNdbIJdoTVcJfZzlawS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

10-11-10

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.34	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 39 lb	FT = 20%

### LUMBER

Scale = 1:31.9

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

**BRACING** 

Structural wood sheathing directly applied or TOP CHORD

10-0-0 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=11-6-7, 3=11-6-7, 4=11-6-7

Max Horiz 1=-62 (LC 12)

Max Unlift 1=-48 (LC 34), 3=-48 (LC 33),

4=-30 (LC 16)

1=67 (LC 33), 3=67 (LC 34), 4=899 Max Grav

(LC 2)

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

Tension

TOP CHORD 1-2=-67/473, 2-3=-67/473

1-4=-341/102, 3-4=-341/102 BOT CHORD

WFBS 2-4=-707/137

### NOTES

- Unbalanced roof live loads have been considered for 1) 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.
- 6) 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.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 1, 48 lb uplift at joint 3 and 30 lb uplift at joint 4.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 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 9,2023

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



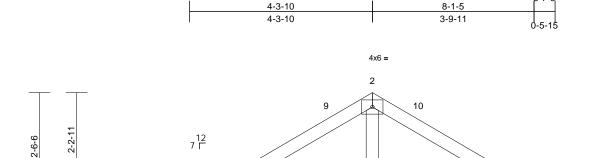
Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	V02	Valley	1	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries. Inc. Mon May 08 14:43:30 ID:?Gqc9iZ1fXTLHySTVQ0ee2zladN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

2x4 II

8-7-5

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	0.24	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			1							Weight: 29 lb	FT = 20%

### LUMBER

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

**BRACING** 

Structural wood sheathing directly applied or TOP CHORD

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 Unlift 1=-17 (LC 34), 3=-17 (LC 33),

4=-19 (LC 16)

1=70 (LC 33), 3=70 (LC 34), 4=624 Max Grav

(LC 2)

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

Tension

1-2=-62/306, 2-3=-62/306

1-4=-232/81, 3-4=-232/81 **BOT CHORD** 2-4=-456/92

**WEBS** NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 1) 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 5) slope.
- 6) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

3x4 💋

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) 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.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 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



3x4 ᢌ

May 9,2023

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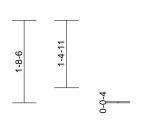
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

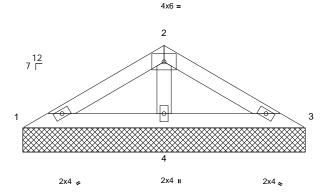


Job		Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence	Creek -	V03	Valley	1	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries. Inc. Mon May 08 14:43:30 ID:?Gqc9iZ1fXTLHySTVQ0ee2zladN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







5-9-0

Scale = 1:23.7

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	0.09	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 2x4 SP No.3 **OTHERS** 

**BRACING** 

Structural wood sheathing directly applied or TOP CHORD

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

1-4=-106/57, 3-4=-106/57 BOT CHORD 2-4=-231/43

**WEBS** 

### NOTES

- Unbalanced roof live loads have been considered for 1) 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 5) slope.
- 6) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 8) 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.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) 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.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 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 9,2023

Page: 1

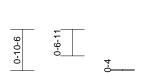
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

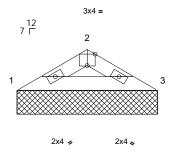
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Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	V04	Valley	1	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries. Inc. Mon May 08 14:43:31 ID:?Gqc9iZ1fXTLHySTVQ0ee2zladN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





2-10-11

Scale = 1:24.3

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

Loading	(psf)	Spacing	2-0-0	csı		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)	13.2/20.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 8 lb	FT = 20%

### LUMBER

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

### BRACING

Structural wood sheathing directly applied or TOP CHORD

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 15)

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

- Unbalanced roof live loads have been considered for 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
- 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.

- 6) 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.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) 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.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 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 9,2023

Page: 1

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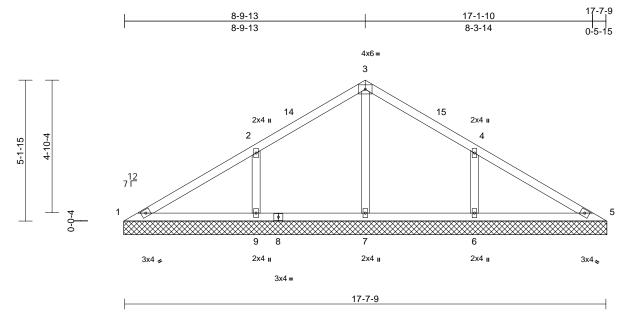
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Cre	ek - V05	Valley	1	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries. Inc. Mon May 08 14:43:31 ID:jTzpqxuzlqsW061fab?zEkzlacy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.2

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	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 68 lb	FT = 20%

### LUMBER

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

**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=17-8-7, 5=17-8-7, 6=17-8-7,

7=17-8-7, 9=17-8-7 Max Horiz 1=-97 (LC 14)

Max Uplift 6=-86 (LC 17), 9=-87 (LC 16) Max Grav

1=103 (LC 33), 5=103 (LC 34), 6=422 (LC 34), 7=409 (LC 2),

9=422 (LC 29)

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

Tension

TOP CHORD 1-2=-130/250, 2-3=0/206, 3-4=0/206,

4-5=-130/231

**BOT CHORD** 1-9=-160/118, 7-9=-160/66, 6-7=-160/66,

5-6=-160/109

WFBS 3-7=-356/1, 2-9=-297/127, 4-6=-296/127

### 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 5) slope.
- 6) 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.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 9 and 86 lb uplift at joint 6.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.
- 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

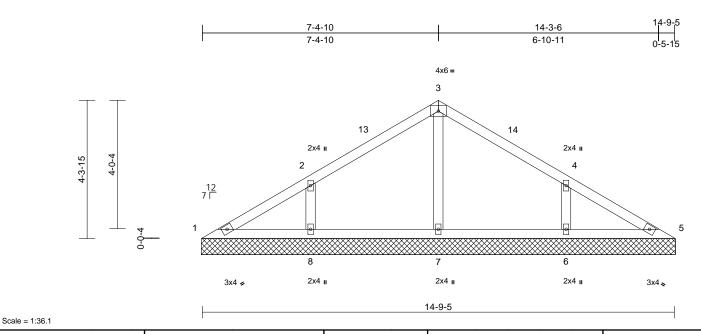


May 9,2023

Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	V06	Valley	1	1	I58225382 Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries. Inc. Mon May 08 14:43:31 ID:jTzpqxuzlqsW061fab?zEkzlacy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



BCDL	
LUMBER	

Loading

**TCDL** 

**BCLL** 

TCLL (roof)

Snow (Ps/Pf)

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

(psf)

20.0

10.0

0.0

10.0

13 2/20 0

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

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)

1=90 (LC 33), 5=90 (LC 34), 6=348 Max Grav (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

### NOTES

- Unbalanced roof live loads have been considered for 1) 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

**DEFL** 

Vert(LL)

Vert(TL)

Horiz(TL)

0.21

0.11

0.09

in

n/a

n/a

0.00

(loc)

5

I/defI

n/a 999

n/a 999

n/a n/a

L/d

**PLATES** 

Weight: 56 lb

MT20

GRIP

244/190

FT = 20%

- Roof design snow load has been reduced to account for 5) slope.
- 6) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 4-0-0 oc.

CSI

TC

BC

WB

Matrix-MS

2-0-0

1.00

1 15

YES

IRC2015/TPI2014

- 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.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) 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.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 5.
- 14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	V07	Valley	1	1	I58225383 Job Reference (optional)

5-11-8

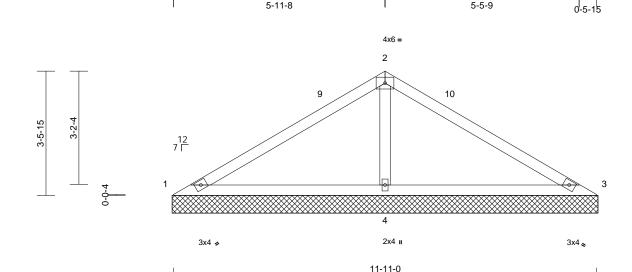
Builders FirstSource (Apex, NC), Apex, NC - 27523,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:31 ID:jTzpqxuzlqsW061fab?zEkzlacy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

11-5-1

Page: 1

11-11-0



Scale	= 1	:32.4
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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	0.43	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 2x4 SP No.3 OTHERS

### **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 13)

Max Uplift 1=-56 (LC 34), 3=-56 (LC 33),

4=-33 (LC 16)

Max Grav 1=63 (LC 33), 3=63 (LC 34), 4=950

(LC 2)

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

Tension

TOP CHORD 1-2=-73/508, 2-3=-73/508 1-4=-369/108, 3-4=-369/108 **BOT CHORD** 

WFBS

2-4=-752/146

### 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.
- 6) 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.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) 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.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 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 9,2023

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

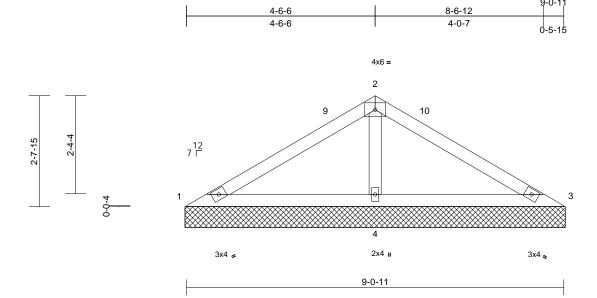
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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	V08	Valley	1	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries. Inc. Mon May 08 14:43:32 ID:BfXC1Hvb37?NeFbr8JWCnyzlacx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



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			1							Weight: 30 lb	FT = 20%

### LUMBER

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

### **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 14)

Max Uplift 1=-13 (LC 34), 3=-13 (LC 33), 4=-16 (LC 16)

1=78 (LC 33), 3=78 (LC 34), 4=644 Max Grav

(LC 2)

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

Tension

1-2=-77/305, 2-3=-77/305

TOP CHORD **BOT CHORD** 1-4=-212/70, 3-4=-212/70

**WEBS** 2-4=-485/96

### NOTES

- Unbalanced roof live loads have been considered for 1) 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 5) slope.
- 6) 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.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) 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.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 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 9,2023

Page: 1

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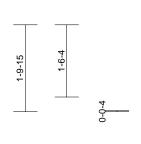
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

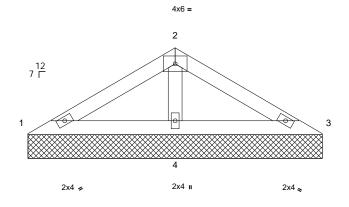


Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	V09	Valley	1	1	Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:32 ID:BfXC1Hvb37?NeFbr8JWCnyzlacx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







6-2-7

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 2x4 SP No.3 **OTHERS** 

**BRACING** 

Structural wood sheathing directly applied or TOP CHORD

6-2-7 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 1=6-2-7, 3=6-2-7, 4=6-2-7

Max Horiz 1=32 (LC 15)

1=-3 (LC 16), 3=-8 (LC 17), 4=-7 Max Uplift

(LC 16)

Max Grav 1=71 (LC 33), 3=71 (LC 34), 4=389

(LC 2)

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

Tension TOP CHORD

1-2=-72/155, 2-3=-72/155

**BOT CHORD** 1-4=-118/58, 3-4=-118/58 **WEBS** 

2-4=-255/50

### NOTES

- Unbalanced roof live loads have been considered for 1) 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 5) slope.
- 6) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 8) 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.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) 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.
- 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 9,2023

Page: 1

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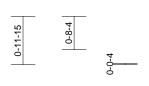


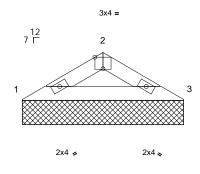
Job	Truss	Truss Type	Qty	Ply	Mattamy - Glades; Lot 26 Providence Creek
26 Providence Creek -	V10	Valley	1	1	I58225386 Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon May 08 14:43:32 ID:BfXC1Hvb37?NeFbr8JWCnyzlacx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

> 1-8-1 2-10-3 1-8-1







Scale = 1:23.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Ps/Pf)	13.2/20.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 9 lb	FT = 20%

### LUMBER

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

### BRACING

TOP CHORD Structural wood sheathing directly applied or

3-4-2 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=3-4-2, 3=3-4-2

Max Horiz 1=16 (LC 15)

Max Uplift 1=-4 (LC 16), 3=-4 (LC 17)

Max Grav 1=134 (LC 2), 3=134 (LC 2) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-206/25, 2-3=-206/25

BOT CHORD 1-3=-14/172

### NOTES

- Unbalanced roof live loads have been considered for 1) 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.

- 6) 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.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1 and 4 lb uplift at joint 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 9,2023

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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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

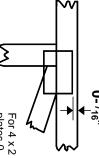


### Symbols

## 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-  $\frac{1}{16}$  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 × 4

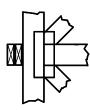
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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



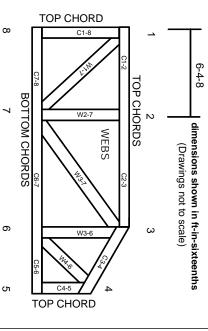
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

### Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing. Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

## **Numbering System**



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

# **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

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- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.