

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25080114-01

55 Magnolia Acres-Roof-Taylor FA TMB FL GLH

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I75941913 thru I75941948

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

North Carolina COA: C-0844



August 28,2025

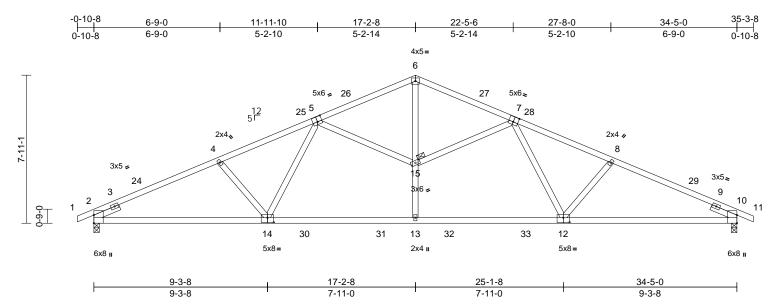
Gilbert, Eric

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	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	A04	Common	4	1	I75941913 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:24 ID:G6IuVEuUV5WApGQSdJP3EYzo4e8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:61.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.45	12-13	>926	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.58	12-13	>717	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.12	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 171 lb	FT = 20%

LUMBER

BRACING

JOINTS

FORCES

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except* 13-6:2x4 SP 2400F

SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

TOP CHORD

Structural wood sheathing directly applied or

3-8-8 oc purlins.

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

bracing.

1 Brace at Jt(s): 15

REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=-102 (LC 15)

Max Uplift 2=-68 (LC 14), 10=-68 (LC 15) Max Grav 2=1568 (LC 3), 10=1568 (LC 3)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-3117/141, 4-6=-2942/142,

6-8=-2942/142, 8-10=-3117/141, 10-11=0/20

BOT CHORD 2-13=-173/2787, 10-13=-90/2787 **WEBS**

13-15=0/427, 6-15=0/1117, 7-15=-918/141,

7-12=-9/485, 8-12=-305/157, 5-15=-918/141,

5-14=-9/485, 4-14=-305/157

NOTES

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-6-13, Interior (1) 2-6-13 to 13-9-3. Exterior(2R) 13-9-3 to 20-7-13. Interior (1) 20-7-13 to 31-10-3, Exterior(2E) 31-10-3 to 35-3-8 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 28,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	A05	Common	5	1	I75941914 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:25 ID:83y7eAJ0afbrg2KQNy31qezo4et-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

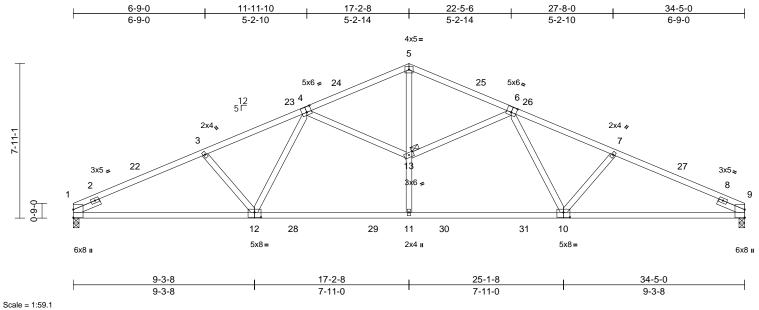


Plate Offsets (X, Y): [4:0-3-0,0-3-4], [6:0-3-0,0-3-4], [10:0-4-0,0-3-0], [12:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.45	10-11	>926	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.57	10-11	>719	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.12	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 168 lb	FT = 20%

LUMBER

BRACING

TOP CHORD

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except* 11-5:2x4 SP 2400F

SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

3-8-15 oc purlins.

Structural wood sheathing directly applied or

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

bracing.

JOINTS 1 Brace at Jt(s): 13

REACTIONS (size) 1=0-3-8, 9=0-3-8 Max Horiz 1=97 (LC 18)

Max Uplift 1=-55 (LC 14), 9=-55 (LC 15) Max Grav 1=1524 (LC 3), 9=1524 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-3123/150, 3-5=-2948/150,

5-7=-2948/150, 7-9=-3123/150 **BOT CHORD** 1-11=-180/2791, 9-11=-117/2791

WEBS 11-13=0/427, 5-13=0/1118, 6-13=-920/141,

6-10=-10/489, 7-10=-309/157,

4-13=-920/141, 4-12=-9/489, 3-12=-309/157

NOTES

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-5-5, Interior (1) 3-5-5 to 13-9-3. Exterior(2R) 13-9-3 to 20-7-13. Interior (1) 20-7-13 to 30-11-11, Exterior(2E) 30-11-11 to 34-5-0 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 9. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 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. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply 55 Magnolia Acres-Roof-Taylor FA TMB FL GLH 175941915 25080114-01 A06 Common Supported Gable Job Reference (optional) Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:25 Page: 1 ID:jDIZRK4THW4hHzoaCliL0Qzo4fB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-10-8 17-2-8 34-5-0 0-10-8 17-2-8 17-2-8 0-10-8 4x5= 15 16 14 5x6 = 13 17 5x6 ≥ 18 12 12 5 F 70¹¹ ¹⁹71 10 20 9 21 22 23 24 25 4x5≤ 26 27 28 29 0-6-0 54 44 38 30 53 52 51 50 49 48 47 46 45 43 62 41 40 39 37 36 35 34 33 32 31 3x5 II 3x6**≤** 5x6= 3x5 II 3x6≥ 5x6= 3x6 3x6 > 34-5-0 Scale = 1:61.7 Plate Offsets (X, Y): [11:0-3-0,0-3-0], [19:0-3-0,0-3-0], [28:Edge,0-5-0], [38:0-3-0,0-3-0], [42:0-1-8,0-1-12], [46:0-3-0,0-3-0] 1-11-4 CSI DEFL I/defl L/d **PLATES** GRIP Loading (psf) Spacing in (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) 999 MT20 244/190 n/a n/a Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.02 Vert(CT) n/a n/a 999 TCDL 10.0 Rep Stress Incr WB 28 YES 0.12 Horz(CT) 0.00 n/a **BCLL** 0.0 IRC2018/TPI2014 Matrix-MSH Code BCDL 10.0 Weight: 277 lb FT = 20%LUMBER Max Grav 2=121 (LC 27), 28=113 (LC 22), **WEBS** 42-61=-90/15, 15-61=-92/17, 43-60=-124/25, 30=84 (LC 37), 31=106 (LC 22), 14-60=-124/25, 44-59=-120/42, TOP CHORD 2x4 SP No.2 32=103 (LC 37), 33=103 (LC 1), 13-59=-121/42, 45-58=-118/36, 2x4 SP No.2 **BOT CHORD** 34=103 (LC 22), 35=104 (LC 22), 36=103 (LC 1), 37=109 (LC 22), 12-58=-118/36, 46-57=-113/37, **WEBS** 2x6 SP No.2 11-57=-112/37, 47-56=-82/36, 10-56=-83/37, **OTHERS** 2x4 SP No.3 38=137 (LC 22), 39=143 (LC 22), 48-55=-76/28, 9-55=-77/33, 8-49=-78/36, SLIDER Left 2x4 SP No.3 -- 1-2-8, Right 2x4 SP No.3 40=147 (LC 22), 41=150 (LC 22), 7-50=-78/37, 6-51=-78/37, 5-52=-78/35, 42=116 (LC 28), 43=150 (LC 21), 44=146 (LC 21), 45=144 (LC 21), 4-53=-80/49, 3-54=-69/70, 16-41=-124/22, BRACING 17-40=-121/42, 18-39=-118/36, TOP CHORD Structural wood sheathing directly applied or 46=139 (LC 21), 47=109 (LC 21), 19-38=-111/37, 20-37=-83/38, 21-36=-78/37, 6-0-0 oc purlins 48=102 (LC 1), 49=103 (LC 21), 22-35=-78/37, 23-34=-78/37, 24-33=-78/37, **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc 50=103 (LC 36), 51=103 (LC 1) 25-32=-78/35, 26-31=-80/49, 27-30=-70/73, bracing. 52=103 (LC 36), 53=106 (LC 21), 55-56=-6/14, 56-57=-7/16, 57-58=-6/16, **JOINTS** 1 Brace at Jt(s): 57, 54=84 (LC 36) 58-59=-6/16. 59-60=-6/15. 60-61=-5/14 **FORCES** (lb) - Maximum Compression/Maximum NOTES REACTIONS (size) 2=34-5-0, 28=34-5-0, 30=34-5-0, Tension Unbalanced roof live loads have been considered for 31=34-5-0, 32=34-5-0, 33=34-5-0 TOP CHORD 1-2=0/20, 2-3=-38/29, 3-4=-98/53, this design. 34=34-5-0, 35=34-5-0, 36=34-5-0, 4-5=-80/59, 5-6=-64/64, 6-7=-51/72 37=34-5-0, 38=34-5-0, 39=34-5-0, 7-8=-41/83, 8-9=-32/93, 9-10=-34/97, 40=34-5-0, 41=34-5-0, 42=34-5-0, 10-12=-53/124, 12-13=-62/144, 43=34-5-0, 44=34-5-0, 45=34-5-0, 13-14=-73/166, 14-15=-80/181 46=34-5-0, 47=34-5-0, 48=34-5-0, 15-16=-80/182, 16-17=-73/167 49=34-5-0, 50=34-5-0, 51=34-5-0, ORTH 17-18=-62/145, 18-20=-53/125 52=34-5-0, 53=34-5-0, 54=34-5-0 20-21=-34/85, 21-22=-29/65, 22-23=-24/45, Max Horiz 2=99 (LC 14) 23-24=-21/25, 24-25=-31/17, 25-26=-44/20, Max Uplift 2=-16 (LC 15), 30=-47 (LC 15), 26-27=-62/29, 27-28=-31/24, 28-29=0/20 31=-14 (LC 15), 32=-17 (LC 15), **BOT CHORD** 2-54=-26/86, 53-54=-26/86, 52-53=-26/86, 33=-16 (LC 15), 34=-16 (LC 15), 51-52=-26/86, 50-51=-26/86, 49-50=-26/86, 35=-16 (LC 15), 36=-16 (LC 15), 48-49=-26/86, 47-48=-25/84, 45-47=-25/84, SEAL 37=-17 (LC 15), 38=-16 (LC 15), 44-45=-25/84, 43-44=-25/84, 42-43=-26/86, 39=-16 (LC 15), 40=-21 (LC 15),

41-42=-31/98, 40-41=-31/98, 39-40=-31/98,

37-39=-31/98, 36-37=-31/98, 35-36=-31/98,

34-35=-31/98, 33-34=-31/98, 32-33=-31/98,

31-32=-31/98, 30-31=-31/98, 28-30=-31/98

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

41=-5 (LC 15), 43=-10 (LC 14),

44=-20 (LC 14), 45=-16 (LC 14),

46=-17 (LC 14), 47=-15 (LC 14),

48=-10 (LC 14), 49=-16 (LC 14), 50=-17 (LC 14), 51=-16 (LC 14),

52=-17 (LC 14), 53=-13 (LC 14),

54=-60 (LC 14)

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



GILB

August 28,2025

Timminin

036322

Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	A06	Common Supported Gable	1	1	I75941915 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:25 ID:jDIZRK4THW4hHzoaCliL0Qzo4fB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

- Wind: ASCE 7-16: Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-6-8, Exterior(2N) 2-6-8 to 13-9-3, Corner(3R) 13-9-3 to 20-7-13, Exterior(2N) 20-7-13 to 31-10-3, Corner(3E) 31-10-3 to 35-3-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 2, 10 lb uplift at joint 43, 20 lb uplift at joint 44, 16 lb uplift at joint 45, 17 lb uplift at joint 46, 15 lb uplift at joint 47, 10 lb uplift at joint 48, 16 lb uplift at joint 49, 17 lb uplift at joint 50, 16 lb uplift at joint 51, 17 lb uplift at joint 52, 13 lb uplift at joint 53, 60 lb uplift at joint 54, 5 lb uplift at joint 41, 21 lb uplift at joint 40, 16 lb uplift at joint 39, 16 Ib uplift at joint 38, 17 lb uplift at joint 37, 16 lb uplift at joint 36, 16 lb uplift at joint 35, 16 lb uplift at joint 34, 16 Ib uplift at joint 33, 17 lb uplift at joint 32, 14 lb uplift at joint 31, 47 lb uplift at joint 30 and 16 lb uplift at joint 2.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

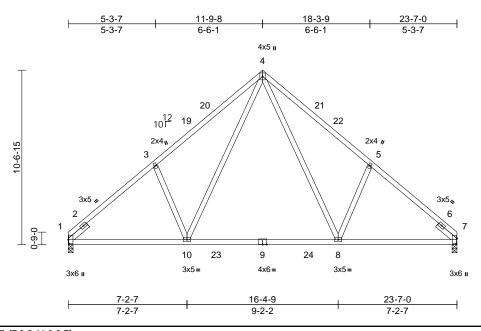
LOAD CASE(S) Standard

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	B01	Common	8	1	I75941916 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:26 ID:nZ6OSqrYmghNV2rwaFsulQzo4fU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:69.9

Plate Offsets (X, Y): [1:0-2-12,0-0-7], [7:0-3-11,0-0-7]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.32	8-10	>883	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.49	8-10	>577	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 133 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 1 **BOT CHORD** 2x4 SP No.2

WEBS 2x4 SP No.2 *Except* 8-5,10-3:2x4 SP No.3 SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING

TOP CHORD

Structural wood sheathing directly applied or

2-2-0 oc purlins.

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

bracing.

REACTIONS (size) 1=0-3-8, 7=0-3-8

Max Horiz 1=197 (LC 11)

Max Uplift 1=-16 (LC 14), 7=-16 (LC 15) Max Grav 1=1066 (LC 24), 7=1066 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-1354/75, 3-4=-1437/173,

4-5=-1437/173, 5-7=-1354/75

BOT CHORD 1-10=-155/1083, 8-10=0/684, 7-8=-43/1058

4-8=-117/712, 5-8=-353/222, 4-10=-117/712,

3-10=-353/222

NOTES

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-9-8, Exterior(2R) 8-9-8 to 14-9-8, Interior (1) 14-9-8 to 20-7-0, Exterior(2E) 20-7-0 to 23-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- 4) 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 7. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 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. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	B02	Common	9	1	I75941917 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:26 ID:7AG8gTtMb5ckvlkYuSQ7VYzo4gk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

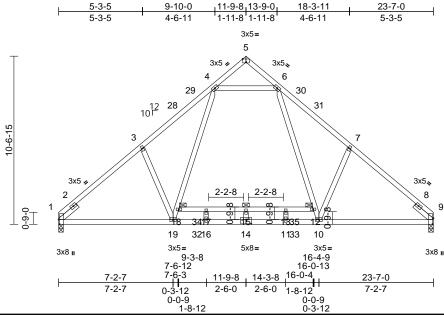


Plate Offsets (X, Y): [1:0-3-8,Edge], [5:0-2-8,Edge], [9:0-4-7,Edge], [14:0-4-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.43	14	>659	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.79	14	>356	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.07	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 147 lb	FT = 20%

LUMBER

Scale = 1:72.5

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.1 **WEBS** 2x4 SP No.3

SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING

FORCES

TOP CHORD Structural wood sheathing directly applied or

2-9-12 oc purlins.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing

REACTIONS 1=0-3-8, 9=0-3-8 (size)

1=-197 (LC 12) Max Horiz

Max Grav 1=1370 (LC 24), 9=1370 (LC 25) (lb) - Maximum Compression/Maximum

Tension

1-3=-1936/0, 3-4=-1861/0, 4-5=-138/66, TOP CHORD

5-6=-138/66, 6-7=-1861/0, 7-9=-1936/0

BOT CHORD 1-19=-62/1409, 16-19=0/1119, 11-16=0/1119,

10-11=0/1119, 9-10=0/1382, 17-18=-70/0, 15-17=-70/0, 13-15=-70/0, 12-13=-70/0

6-12=0/908, 10-12=0/744, 7-10=-276/228,

18-19=0/744, 4-18=0/908, 3-19=-276/228,

16-17=-73/26, 14-15=0/17, 11-13=-73/26,

4-6=-1156/21

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-9-8. Exterior(2R) 8-9-8 to 14-9-8. Interior (1) 14-9-8 to 20-7-0, Exterior(2E) 20-7-0 to 23-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- 200.0lb AC unit load placed on the bottom chord, 11-9-8 from left end, supported at two points, 5-0-0 apart.
- All plates are 2x4 MT20 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.
- This truss is designed in accordance with the 2018 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. 1/2/2023 BEFORE USE.

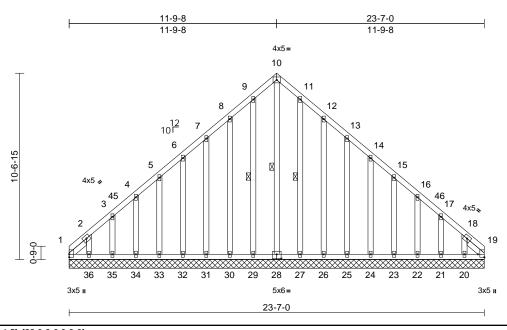
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	B03	Common	2	1	Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:26 ID:aT8Xv7SLOqkTldit_gJSjfzo4ia-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.5

Plate Offsets (X	, Y):	[19:Edge,0-4-5],	[28:0-3-0,0-3-0]
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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	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.01	19	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 220 lb	FT = 20%

Max Grav 1=227 (LC 14), 19=190 (LC 15),

36=148 (LC 24)

Tension

(lb) - Maximum Compression/Maximum

4-5=-127/113, 5-6=-110/99, 6-7=-99/99

10-11=-111/179. 11-12=-100/153.

17-18=-160/86, 18-19=-89/45

1-36=-76/166, 35-36=-76/166,

34-35=-76/166, 33-34=-76/166,

32-33=-76/166, 31-32=-76/166,

30-31=-76/166, 29-30=-76/166, 27-29=-76/166, 26-27=-76/166,

25-26=-76/166, 24-25=-76/166,

23-24=-76/166, 22-23=-76/166, 21-22=-76/166, 20-21=-76/166,

1-2=-108/73, 2-3=-200/146, 3-4=-155/129,

7-8=-89/125, 8-9=-100/155, 9-10=-111/179,

12-13=-78/103, 13-14=-60/60, 14-15=-64/40, 15-16=-75/54, 16-17=-115/70,

20=134 (LC 25), 21=111 (LC 25),

22=113 (LC 25), 23=112 (LC 25),

24=112 (LC 25), 25=137 (LC 21),

26=172 (LC 21), 27=171 (LC 21),

28=178 (LC 15), 29=171 (LC 20),

30=172 (LC 20), 31=137 (LC 20),

32=112 (LC 24), 33=112 (LC 24),

34=113 (LC 24), 35=111 (LC 24),

LUMBER

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

SLIDER Left 2x4 SP No.3 -- 1-3-14, Right 2x4 SP

No.3 -- 1-3-14

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.

WEBS 10-28, 9-29, 11-27 1 Row at midpt REACTIONS (size) 1=23-7-0. 19=23-7-0. 20=23-7-0.

21=23-7-0, 22=23-7-0, 23=23-7-0, 24=23-7-0. 25=23-7-0. 26=23-7-0. 27=23-7-0, 28=23-7-0, 29=23-7-0,

30=23-7-0, 31=23-7-0, 32=23-7-0, 33=23-7-0, 34=23-7-0, 35=23-7-0,

36=23-7-0

Max Horiz 1=197 (LC 11)

1=-123 (LC 12), 19=-68 (LC 13),

20=-107 (LC 15), 21=-34 (LC 15), 22=-40 (LC 15), 28=-38 (LC 15), 24=38 (LC 15), 25=38 (LC 15), 26=48 (LC 15), 27=13 (LC 15), 29=49 (LC 15), 27=13 (LC 15), (LC 14), 3 meters and RF

*® conne

"g der

"If 38 (LC 14), 34-35 (LC 4), -38 (LC 14), 34-40 (LC 14), (LC 14), 36=-120 (LC 14)

WEBS

FORCES

TOP CHORD

BOT CHORD

10-28=-175/76, 9-29=-144/35, 8-30=-145/62, 7-31=-111/54, 6-32=-95/54, 5-33=-96/55, 4-34=-95/54, 3-35=-97/61, 2-36=-107/111,

19-20=-76/166

11-27=-144/29, 12-26=-145/64, 13-25=-111/54, 14-24=-95/54, 15-23=-96/55, 16-22=-95/54, 17-21=-97/61, 18-20=-104/103

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 8-9-8, Corner(3R) 8-9-8 to 14-9-8, Exterior(2N) 14-9-8 to 20-7-0, Corner(3E) 20-7-0 to 23-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are 2x4 MT20 unless otherwise indicated. 6)
- Gable requires continuous bottom chord bearing.

August 28,2025



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	B03	Common	2	1	I75941918 Job Reference (optional)

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Page: 2

- 8) Gable studs spaced at 1-4-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 1, 68 lb uplift at joint 19, 19 lb uplift at joint 29, 46 lb uplift at joint 30, 38 lb uplift at joint 31, 39 lb uplift at joint 32, 38 lb uplift at joint 33, 40 lb uplift at joint 34, 34 lb uplift at joint 35, 120 lb uplift at joint 36, 13 lb uplift at joint 27, 48 Ib uplift at joint 26, 38 lb uplift at joint 25, 38 lb uplift at joint 24, 38 lb uplift at joint 23, 40 lb uplift at joint 22, 34 Ib uplift at joint 21, 107 lb uplift at joint 20, 123 lb uplift at joint 1 and 68 lb uplift at joint 19.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

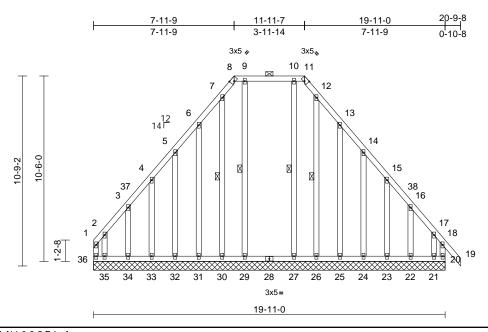
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	C01	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:26 ID:1yQeRLPLBvSSzelOagnqN0zo4ID-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scal	le =	1:65	5.2

WEBS

Plate Offsets (2	X, Y):	[8:0-2-5,Edge],	[11:0-2-5,Edge]
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Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	20	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 201 lb	FT = 20%

LUMBER		TOP CHORD	1-36=-239/219, 1-2
TOP CHORD	2x4 SP No.2		3-4=-124/123, 4-5
BOT CHORD	2x4 SP No.2		6-7=-198/257, 7-8:
WEBS	2x4 SP No.3		9-10=-153/201, 10
OTHERS	2x4 SP No.3		11-12=-168/217, 1
BRACING			13-14=-134/173, 1
TOP CHORD	Structural wood sheathing directly applied or		15-16=-102/101, 1
TOT OFFICIAL	6-0-0 oc purlins, except end verticals, and		17-18=-238/191, 1
	2-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-11.		18-20=-216/147
DOT CHODD	Pigid spiling directly applied or 6.0.0 as	BOT CHORD	35-36=-118/133, 3

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 9-29, 10-27, 7-30, 12-26 1 Row at midpt REACTIONS (size) 20=19-11-0. 21=19-11-0.

22=19-11-0, 23=19-11-0, 24=19-11-0, 25=19-11-0, 26=19-11-0, 27=19-11-0, 29=19-11-0, 30=19-11-0, 31=19-11-0, 32=19-11-0, 33=19-11-0, 34=19-11-0, 35=19-11-0, 36=19-11-0 Max Horiz 36=-230 (LC 10) Max Uplift 20=-272 (LC 13), 21=-313 (LC 15), 22=-57 (LC 15), 23=-66 (LC 15), 24=-65 (LC 15), 25=-81 (LC 15),

> 33=-65 (LC 14), 34=-59 (LC 14), 35=-316 (LC 14), 36=-379 (LC 12) 20=373 (LC 10), 21=278 (LC 13), Max Grav 22=146 (LC 53), 23=180 (LC 53), 24=178 (LC 53), 25=193 (LC 53),

26=131 (LC 55), 27=317 (LC 54), 29=320 (LC 56), 30=134 (LC 57), 31=192 (LC 51), 32=178 (LC 51), 33=180 (LC 51), 34=146 (LC 51), 35=338 (LC 12), 36=409 (LC 11)

31=-81 (LC 14), 32=-65 (LC 14),

(lb) - Maximum Compression/Maximum Tension

-2=-260/241, 2-3=-149/149, 5=-116/135, 5-6=-134/177,

8=-168/217, 8-9=-153/201, 10-11=-153/201. 12-13=-198/257, 14-15=-97/123.

16-17=-128/122. 18-19=0/45.

35-36=-118/133, 34-35=-118/133,

33-34=-118/133, 32-33=-118/133, 31-32=-118/133, 30-31=-118/133, 29-30=-118/133, 27-29=-118/133, 26-27=-118/133, 25-26=-118/133,

24-25=-118/133, 23-24=-118/133, 22-23=-118/133, 21-22=-118/133, 20-21=-118/133

9-29=-219/22, 10-27=-220/11, 7-30=-117/13, 6-31=-178/98, 5-32=-164/81, 4-33=-160/78, 3-34=-137/86, 2-35=-147/162,

12-26=-113/12, 13-25=-178/98, 14-24=-164/81, 15-23=-160/78, 16-22=-136/86, 17-21=-129/149

NOTES

WEBS

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-1-12 to 3-3-8, Exterior(2N) 3-3-8 to 4-11-9, Corner(3R) 4-11-9 to 14-11-7, Exterior(2N) 14-11-7 to 17-9-8, Corner(3E) 17-9-8 to 20-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1 00: Ct=1 10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding. All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 1-4-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



August 28,2025

Continued on page 2

FORCES

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH			
25080114-01	C01	Piggyback Base Supported Gable	1	1	I75941919 Job Reference (optional)			

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:26 ID:1yQeRLPLBvSSzelOagnqN0zo4ID-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 2

- 13) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 379 lb uplift at joint 36, 272 lb uplift at joint 20, 81 lb uplift at joint 31, 65 lb uplift at joint 32, 65 lb uplift at joint 33, 59 lb uplift at joint 34, 316 lb uplift at joint 35, 81 lb uplift at joint 25, 65 lb uplift at joint 24, 66 lb uplift at joint 23, 57 lb uplift at joint 22 and 313 lb uplift at joint 21.
- 15) This truss is designed in accordance with the 2018 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.

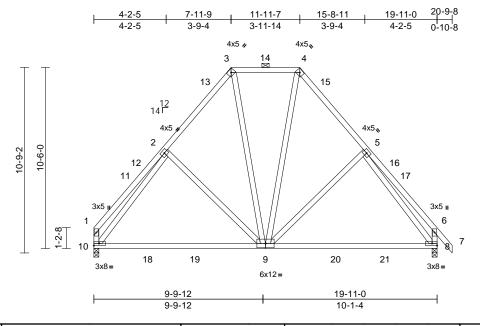
LOAD CASE(S) Standard

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	C02	Piggyback Base	1	1	I75941920 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:26 ID:602k7zE3dIT1bsKPxu_E_szo4is-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale	_ ′	1.66	Ω

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.24	8-9	>981	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.40	8-9	>587	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 149 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.1

2x4 SP No.3 *Except* 9-4,9-3:2x4 SP No.2 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-5-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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

bracing

REACTIONS (size) 8=0-3-8, 10=0-3-8

Max Horiz 10=-237 (LC 12)

Max Uplift 8=-18 (LC 15), 10=-7 (LC 15)

Max Grav 8=1068 (LC 47), 10=1013 (LC 47)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-474/79, 2-3=-1024/137, 3-4=-688/139,

4-5=-1023/136, 5-6=-482/132, 6-7=0/47,

1-10=-428/76. 6-8=-476/126

BOT CHORD 8-10=-108/686 WEBS

2-10=-762/44, 5-8=-743/43, 4-9=-57/412,

3-9=-58/415, 2-9=-283/187, 5-9=-273/186

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 3-8-11, Exterior(2R) 3-8-11 to 16-2-5, Interior (1) 16-2-5 to 17-9-8, Exterior(2E) 17-9-8 to 20-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live 5) load of 12.0 psf or 1.00 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 8. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) 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



August 28,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

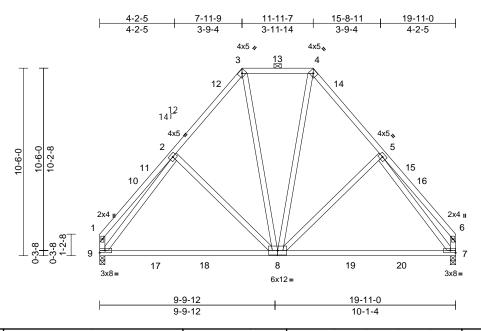
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	C03	Piggyback Base	5	1	I75941921 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:26 ID:pObf4mx?HxSRi9VoXsZc0ozo4jE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:64.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.24	7-8	>981	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.40	7-8	>587	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 147 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.1

2x4 SP No.3 *Except* 8-4,8-3:2x4 SP No.2 WFBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-5-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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

bracing

REACTIONS (size) 7=0-3-8, 9=0-3-8 Max Horiz 9=-222 (LC 10)

Max Uplift 7=-7 (LC 14), 9=-7 (LC 15)

Max Grav 7=1016 (LC 46), 9=1015 (LC 46)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-474/79, 2-3=-1026/136, 3-4=-689/139, TOP CHORD

4-5=-1026/136, 5-6=-449/94, 1-9=-428/76,

6-7=-410/80

BOT CHORD 7-9=-116/675

2-9=-764/43, 5-7=-764/43, 4-8=-57/416, 3-8=-57/416, 2-8=-283/187, 5-8=-280/187

WEBS

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 3-8-11, Exterior(2R) 3-8-11 to 16-2-5, Interior (1) 16-2-5 to 16-9-4, Exterior(2E) 16-9-4 to 19-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 7. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



August 28,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

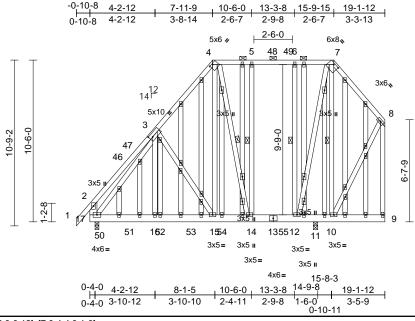
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	D01	Piggyback Base Girder	1	1	Job Reference (optional)

Run: 8,73 E May 9 2024 Print: 8,730 E May 9 2024 MiTek Industries, Inc. Wed Aug 27 13:52:14 ID:x06am08_nyRma9fVmzxWQ4zo4pR-Nxc7yJIMCe6Pu9wjCgFnCQOM6_bPjzISeeMyQ0yjeUn

Page: 1



Scale = 1:74.8

Plate Offsets (X, Y): [3:0-2-9,0-2-8], [4:0-2-8,0-0-12], [7:0-4-4,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.11	14-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.18	14-15	>952	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.01	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 340 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2

BOT CHORD 2x6 SP No.2 *Except* 13-9:2x6 SP 2400F

2.0E

WEBS 2x4 SP No.3 *Except* 17-2:2x6 SP No.2

2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.

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

bracing, Except:

6-0-0 oc bracing: 11-12,10-11. 7-10, 5-14, 6-12, 4-14 1 Row at midpt

WEBS REACTIONS (lb/size) 11=1405/0-3-8. 17=1010/0-3-0

Max Horiz 17=288 (LC 9)

Max Uplift 11=-298 (LC 9), 17=-167 (LC 12)

Max Grav 11=1517 (LC 36), 17=1105 (LC 39)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/50, 2-3=-365/194, 3-4=-668/211, 4-5=-184/141, 5-6=-184/141, 6-7=-184/141,

7-8=-88/249, 2-17=-399/185, 8-9=-25/117

16-17=-267/565, 15-16=-268/567,

BOT CHORD 14-15=-195/365, 12-14=-135/194,

11-12=-160/82, 10-11=-160/82, 9-10=-70/54

WFBS 8-10=-220/64, 3-17=-642/140, 3-16=-64/296,

3-15=-404/206, 4-15=-265/897,

7-10=-1103/320, 5-14=-63/205,

6-12=-515/125, 4-14=-880/250,

7-12=-325/999

NOTES

Unbalanced roof live loads have been considered for this design

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 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, with BCDL = 10.0psf.
- 13) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 11. This connection is for uplift only and does not consider lateral forces.
- 14) This truss is designed in accordance with the 2018 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.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 111 lb down and 35 lb up at 0-7-12, 105 lb down and 39 lb up at 2-7-0, 105 lb down and 39 lb up at 4-7-0, 105 lb down and 39 lb up at 6-7-0, 105 lb down and 39 lb up at 8-7-0, 105 lb down and 39 lb up at 10-7-0, and 105 lb down and 39 lb up at 12-7-0, and 105 lb down and 39 lb up at 14-5-4 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=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-60, 2-4=-60, 4-7=-60, 7-8=-60, 9-17=-20 Concentrated Loads (lb)

Vert: 14=-105, 11=-105, 50=-111, 51=-105, 52=-105, 53=-105, 54=-105, 55=-105



August 28,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

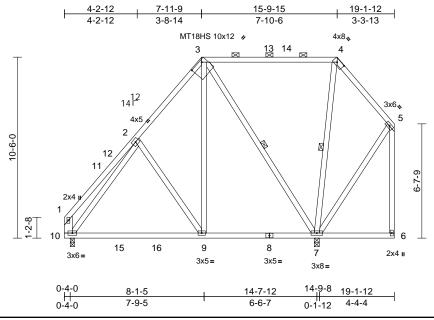
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overal building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	D02	Piggyback Base	2	1	I75941923 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:27 ID:jSHaQRgeszRkJgsvi8jl4szo4nS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.12	9-10	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.22	9-10	>802	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 156 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 3-4:2x4 SP 2400F

2.0E

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 7-3:2x4 SP No.2,

10-1:2x6 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 3-4.

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

bracing.

WEBS 1 Row at midpt 3-7, 4-7 7=0-3-8, 10=0-3-0

REACTIONS (size) Max Horiz 10=273 (LC 11)

Max Uplift 7=-201 (LC 11), 10=-42 (LC 10)

Max Grav 7=1171 (LC 45), 10=669 (LC 36)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-328/154, 2-3=-496/230, 3-4=-53/127, 4-5=-79/240, 1-10=-319/127, 5-6=-10/66

BOT CHORD 9-10=-219/499, 7-9=-165/347, 6-7=-68/99 **WEBS**

3-9=-186/487, 3-7=-677/185, 4-7=-585/95,

5-7=-176/142, 2-9=-311/187, 2-10=-407/78

NOTES

TOP CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 3-8-11, Exterior(2R) 3-8-11 to 15-9-15, Exterior(2E) 15-9-15 to 19-0-0 zone; cantilever left and right exposed: end vertical left and right exposed: porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 4 = 12%
- 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) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 7 and 10. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 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



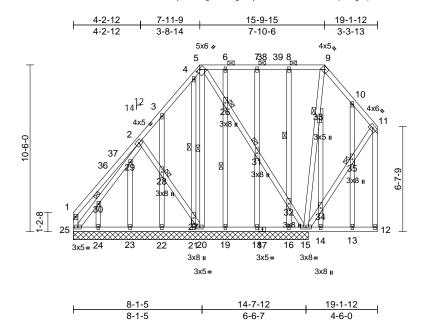
August 28,2025



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	D03	Piggyback Base	1	1	I75941924 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:27 ID:jSHaQRgeszRkJgsvi8jl4szo4nS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:72.5

Plate Offsets (X, Y): [5:0-2-12,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	15	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0	[Weight: 255 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 15-5:2x4 SP No.2

OTHERS 2x4 SP No.3

BRACING TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-9. Rigid ceiling directly applied or 6-0-0 oc

bracing. **WEBS**

1 Row at midpt 5-20, 19-26, 4-27, 8-32 JOINTS

1 Brace at Jt(s): 26,

28, 30, 31, 33, 35

REACTIONS (size) 15=14-9-8, 16=14-9-8, 18=14-9-8, 19=14-9-8, 20=14-9-8, 21=14-9-8, 22=14-9-8, 23=14-9-8, 24=14-9-8,

25=14-9-8

Max Horiz 25=270 (LC 11)

Max Uplift 15=-27 (LC 15), 16=-32 (LC 11), 18=-18 (LC 10), 19=-15 (LC 10), 20=-104 (LC 14), 21=-43 (LC 14),

22=-21 (LC 14), 23=-13 (LC 10),

25=-25 (LC 10)

Max Grav 15=579 (LC 40), 16=250 (LC 39), 18=251 (LC 39), 19=216 (LC 39), 20=234 (LC 50), 21=174 (LC 50),

22=157 (LC 42), 23=109 (LC 52), 24=74 (LC 7), 25=215 (LC 52)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-214/138, 2-3=-112/143, 3-4=-91/177, 4-5=-57/152, 5-6=-51/123, 6-7=-51/123,

7-8=-51/123, 8-9=-51/123, 9-10=-61/199 10-11=-74/170, 1-25=-236/124, 11-12=-32/82 BOT CHORD 24-25=-182/223, 23-24=-182/223,

22-23=-182/223, 21-22=-182/223, 20-21=-182/223, 19-20=-152/182,

18-19=-152/182, 16-18=-152/182, 15-16=-152/182. 14-15=-68/99.

13-14=-68/99. 12-13=-68/99 5-20=-71/14, 5-26=-95/45, 26-31=-103/49,

31-32=-103/49, 15-32=-100/48, 15-33=-335/26, 9-33=-244/23 15-34=-152/144, 34-35=-184/162, 11-35=-141/136, 2-28=-303/201,

27-28=-323/216, 20-27=-308/205, 25-30=-141/146, 29-30=-149/157 2-29=-206/207, 6-26=-192/33, 19-26=-180/37, 4-27=-150/48,

21-27=-168/62, 3-28=-141/63, 22-28=-116/45, 23-29=-67/58, 24-30=-10/14, 7-31=-204/42, 18-31=-207/43, 8-32=-238/49, 16-32=-239/50, 33-34=-34/91, 14-34=-12/50,

10-35=-179/99, 13-35=-124/86

NOTES

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 3-8-11, Exterior(2R) 3-8-11 to 15-9-15, Exterior(2E) 15-9-15 to 19-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated. 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.
- 12) N/A



August 28,2025

Continued on page 2

TOP CHORD

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	D03	Piggyback Base	1	1	I75941924 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:27 ID:jSHaQRgeszRkJgsvi8jI4szo4nS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 2

- 13) Non Standard bearing condition. Review required.
- 14) This truss is designed in accordance with the 2018
 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

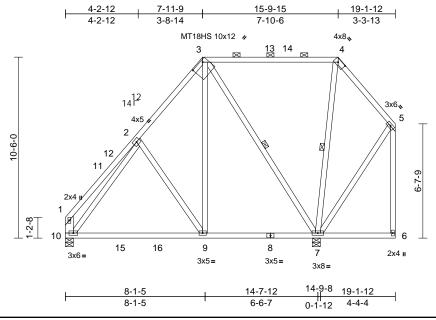


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	D04	Piggyback Base	2	1	I75941925 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:27 ID:jSHaQRgeszRkJgsvi8jl4szo4nS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.12	9-10	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.22	9-10	>802	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 156 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 3-4:2x4 SP 2400F

2.0E

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 7-3:2x4 SP No.2,

10-1:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 3-4. Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing.

WEBS 1 Row at midpt 3-7, 4-7 7=0-5-8, 10=0-5-8

REACTIONS (size) Max Horiz 10=273 (LC 11)

Max Uplift 7=-201 (LC 11), 10=-42 (LC 10)

Max Grav 7=1171 (LC 45), 10=669 (LC 36)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-328/154, 2-3=-496/230, 3-4=-53/127, 4-5=-79/240, 1-10=-319/127, 5-6=-10/66 9-10=-219/499, 7-9=-165/347, 6-7=-68/99

WEBS 3-9=-186/487, 3-7=-677/185, 4-7=-585/95,

5-7=-176/142, 2-9=-311/187, 2-10=-407/78

NOTES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 3-8-11, Exterior(2R) 3-8-11 to 15-9-15, Exterior(2E) 15-9-15 to 19-0-0 zone; cantilever left and right exposed: end vertical left and right exposed: porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 4 = 12%
- 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 10. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 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



August 28,2025



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	E01	Roof Special	1	1	I75941926 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:28 ID:_NtoLg8hl3gig1ixXyyGmQz8?VS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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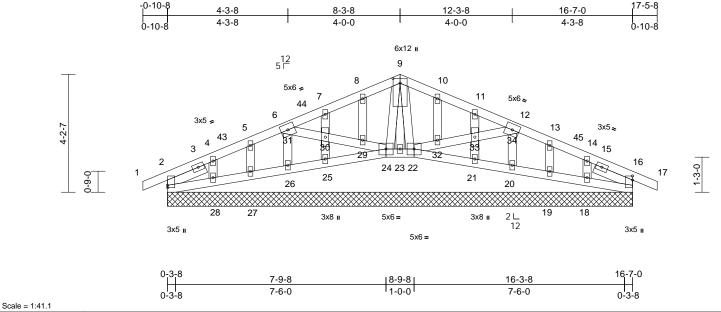


Plate Offsets (X, Y):	[2:0-1-1,0-0-2], [9:0-2-0,0-3-0],	[16:0-1-12,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 99 lb	FT = 20%

LUMBER	
TOP CHO	٦

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

SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 23-24,22-23.

REACTIONS (size)

2=16-7-0, 16=16-7-0, 18=16-7-0, 19=16-7-0, 20=16-7-0, 21=16-7-0. 22=16-7-0, 23=16-7-0, 24=16-7-0, 25=16-7-0, 26=16-7-0, 27=16-7-0, 28=16-7-0

Max Horiz 2=-50 (LC 15)

Max Uplift 2=-18 (LC 15), 16=-21 (LC 11), 18=-24 (LC 15), 19=-10 (LC 15), 21=-25 (LC 15), 23=-8 (LC 7),

25=-25 (LC 14), 27=-8 (LC 14), 28=-34 (LC 14)

Max Grav 2=139 (LC 21), 16=145 (LC 22), 18=105 (LC 1), 19=127 (LC 22),

20=89 (LC 22), 21=261 (LC 22), 22=148 (LC 22), 23=35 (LC 22), 24=140 (LC 21), 25=233 (LC 21), 26=105 (LC 21), 27=146 (LC 21),

28=108 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-28/32, 4-5=-47/40,

5-6=-52/49, 6-7=-14/52, 7-8=-20/48, 8-9=-20/62, 9-10=-18/61, 10-11=-16/46 11-12=-1/56, 12-13=-60/51, 13-14=-52/35,

14-16=-29/14. 16-17=0/20 BOT CHORD

2-28=-9/42, 27-28=-8/41, 26-27=-9/41, 25-26=-8/42, 24-25=-10/43, 23-24=-23/70, 22-23=-25/70 21-22=0/39 20-21=0/39

19-20=0/38, 18-19=0/38, 16-18=0/38 9-22=-42/5, 22-32=-74/55, 32-33=-48/47,

33-34=-55/49, 12-34=-68/49, 9-24=-57/6 6-31=-59/48, 30-31=-44/47, 29-30=-41/46, 24-29=-57/52, 9-23=-46/3, 8-29=-55/23, 7-30=-182/61, 25-30=-193/69, 26-31=-83/10,

5-27=-119/29, 4-28=-82/43, 10-32=-95/31, 11-33=-183/54, 21-33=-221/67, 20-34=-68/5,

13-19=-100/30, 14-18=-81/38

NOTES

WERS

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-0-0, Exterior(2R) 5-0-0 to 10-11-8, Interior (1) 10-11-8 to 14-5-8, Exterior(2E) 14-5-8 to 17-5-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 5) Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 2, 21 lb uplift at joint 16, 8 lb uplift at joint 23, 25 lb uplift at joint 25, 8 lb uplift at joint 27, 34 lb uplift at joint 28, 25 Ib uplift at joint 21, 10 lb uplift at joint 19, 24 lb uplift at joint 18, 18 lb uplift at joint 2 and 21 lb uplift at joint 16.



Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	E01	Roof Special	1	1	I75941926 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:28 $ID:_NtoLg8hl3gig1ixXyyGmQz8?VS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

Page: 2

13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 24, 22, 16, 23, 25, 26, 27, 28, 21, 20, 19, 18, 39.

14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

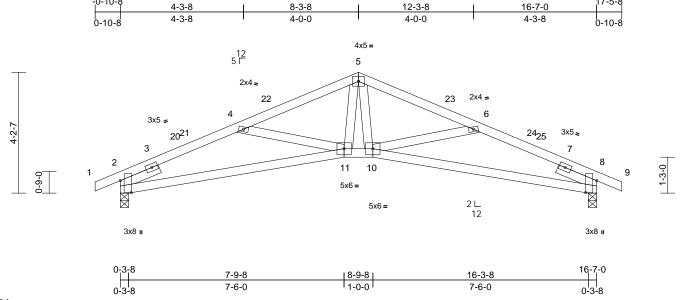


Job	Truss	Truss Type Qty Ply 55 Magi		55 Magnolia Acres-Roof-Taylor FA TMB FL GLH	
25080114-01	E02	Roof Special	4	1	I75941927 Job Reference (optional)

-0-10-8

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:28 ID:_ePDvULMklpHDeVD11mFy?z8?VB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.09	11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.17	10-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 78 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-1-13 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8. 8=0-3-8 Max Horiz 2=-52 (LC 15)

Max Uplift 2=-39 (LC 14), 8=-39 (LC 15)

Max Grav 2=786 (LC 21), 8=786 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/20, 2-4=-1662/268, 4-5=-1290/196,

5-6=-1290/196, 6-8=-1662/268, 8-9=0/20

BOT CHORD 2-11=-185/1492, 10-11=-65/1074,

8-10=-185/1492

WEBS 5-10=-6/370, 6-10=-333/132, 5-11=-6/370,

4-11=-333/126

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-3-8, Exterior(2R) 5-3-8 to 11-3-8, Interior (1) 11-3-8 to 14-5-8, Exterior(2E) 14-5-8 to 17-5-8 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 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.
- Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 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. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

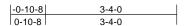
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

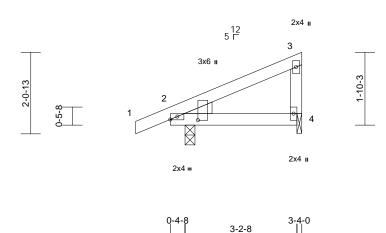


Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	J03	Jack-Closed	8	1	I75941928 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:28 ID:MNIZQHfqANns8qI0P1OuBzzo5?g-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:29.2

Plate Offsets (X, Y): [2:0-0-2,0-0-2], [2:0-0-3,0-8-6]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	4-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 15 lb	FT = 20%

2-10-0

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3 WEDGE Left: 2x4 SP No.3

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

3-4-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (size) 2=0-3-0, 4=0-1-8

Max Horiz 2=52 (LC 13)

Max Uplift 2=-44 (LC 10), 4=-27 (LC 11) Max Grav 2=289 (LC 21), 4=125 (LC 21)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/29, 2-3=-70/137, 3-4=-89/45

BOT CHORD 2-4=-124/92

NOTES

FORCES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

- 5) 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.
- Bearings are assumed to be: Joint 2 User Defined , Joint 4 SP No.3
- Bearing at joint(s) 4 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 at joint(s) 4.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 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. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

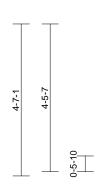


Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	PB1	Piggyback	4	1	Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:28 ID:CehXu41jHiRfcTCJBy??uCzo533-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







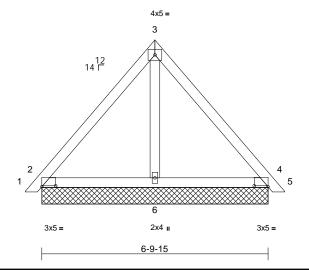


Plate Offsets (X, Y): [2:0-5-0,0-0-6], [4:0-5-0,0-0-6]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 34 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 2=6-9-15, 4=6-9-15, 6=6-9-15

Max Horiz 2=91 (LC 13)

Max Uplift 2=-31 (LC 15), 4=-26 (LC 15) Max Grav

2=286 (LC 21), 4=286 (LC 22),

6=185 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/14, 2-3=-245/80, 3-4=-245/76,

4-5=0/14

BOT CHORD 2-6=-65/113, 4-6=-39/113

WEBS 3-6=-51/36

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-7 to 3-2-7, Exterior(2R) 3-2-7 to 4-7-15, Exterior(2E) 4-7-15 to 7-7-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) N/A
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



August 28,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

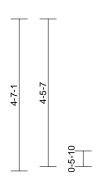


Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	PB2	Piggyback	2	1	I75941930 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:28 ID:o3?OF3?q_n34l0TkWqRIHazo536-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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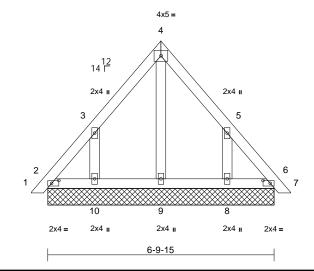


Plate Offsets (X, Y): [2:0-2-10,0-1-0], [6:0-2-10,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 38 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=6-9-15, 6=6-9-15, 8=6-9-15, 9=6-9-15, 10=6-9-15

Max Horiz 2=91 (LC 13)

Max Uplift 2=-21 (LC 10), 6=-8 (LC 11),

8=-116 (LC 15), 10=-117 (LC 14) Max Grav

2=100 (LC 26), 6=96 (LC 22),

8=264 (LC 22), 9=106 (LC 28), 10=264 (LC 21)

(lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/14. 2-3=-95/72. 3-4=-130/68.

4-5=-130/68, 5-6=-84/63, 6-7=0/14 BOT CHORD 2-10=-40/86, 9-10=-40/86, 8-9=-40/86,

6-8=-40/86

WFBS 4-9=-64/9, 3-10=-223/160, 5-8=-223/160

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-2-7 to 3-2-7, Corner(3R) 3-2-7 to 4-7-15, Corner(3E) 4-7-15 to 7-7-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 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) N/A
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

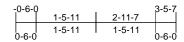


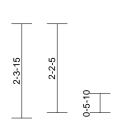
August 28,2025

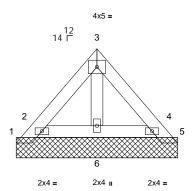
ſ	Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
	25080114-01	PB3	Piggyback	7	1	Job Reference (optional)

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Wed Aug 27 13:56:01 ID:G_2Lubools2LqYFfaT9YdCzo53M-A?yi0c4?G?ywsLwk6GsU_jNfnlyGtiZ9ImKZzFyjeRC

Page: 1







2-11-7

Scale = 1:28.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 16 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

2-11-7 oc purlins.

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

bracing.

REACTIONS (lb/size)

1=-21/3-11-14, 2=134/3-11-14, 4=126/3-11-14, 5=-19/3-11-14, 6=81/3-11-14, 7=134/3-11-14,

10=126/3-11-14

Max Horiz 1=-44 (LC 10)

Max Uplift 1=-64 (LC 12), 2=-51 (LC 14), 4=-33 (LC 15), 5=-32 (LC 22),

7=-51 (LC 14), 10=-33 (LC 15)

Max Grav 1=54 (LC 11), 2=185 (LC 21),

4=177 (LC 22), 5=25 (LC 15), 6=83 (LC 21), 7=185 (LC 21), 10=177

(LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-69/89, 2-3=-72/27, 3-4=-72/23,

4-5=-18/54

BOT CHORD 2-6=-24/39, 4-6=-24/39

WEBS 3-6=-33/0

NOTES

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

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this 5) design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Bearing at joint(s) 1, 5, 2, 4, 2, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) N/A
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



August 28,2025

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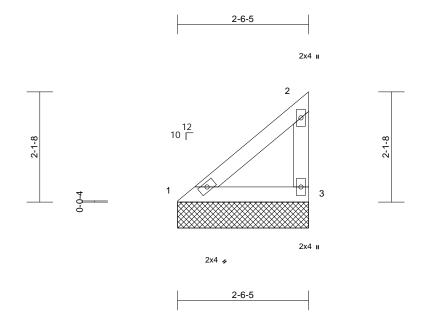
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V02	Valley	1	1	Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:28 ID: OCor 3DIHhe YvLxxuLd 4cTMzo 53Q-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi 7J4zJC? find the property of the pr

Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0	l		l							Weight: 10 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 2-6-5 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=2-6-5, 3=2-6-5

Max Horiz 1=54 (LC 11) Max Uplift 3=-20 (LC 14)

Max Grav 1=133 (LC 20), 3=133 (LC 20) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-151/60, 2-3=-85/43

BOT CHORD 1-3=-45/114

NOTES

FORCES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint
- 10) This truss is designed in accordance with the 2018 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. 1/2/2023 BEFORE USE.

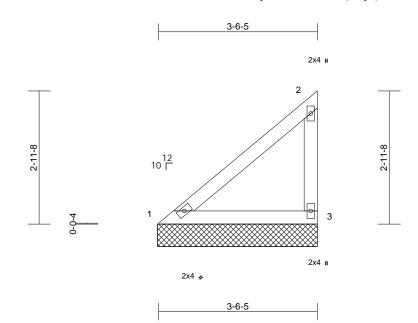
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V03	Valley	2	1	I75941933 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:28 ID:VRZKDsineP2UtKe76n0gIWzo53U-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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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	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.26	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	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 15 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 3-6-5 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=3-6-10, 3=3-6-10

Max Horiz 1=79 (LC 11) Max Uplift 3=-29 (LC 14)

Max Grav 1=201 (LC 20), 3=201 (LC 20) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-244/88, 2-3=-134/59

BOT CHORD 1-3=-60/184

NOTES

FORCES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



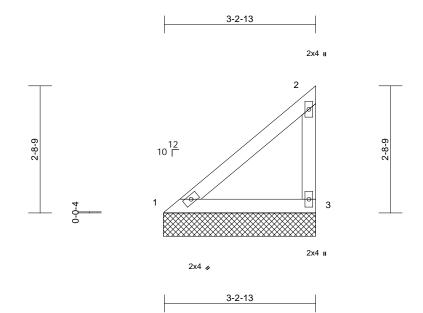
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V03A	Valley	2	1	I75941934 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:28 ID:Z2RZoAhW6onmd0Uk_MzCD5zo53W-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:24.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	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	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 13 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 3-2-13 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 1=71 (LC 11) Max Uplift 3=-26 (LC 14)

Max Grav 1=181 (LC 20), 3=181 (LC 20) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-217/80, 2-3=-120/55

BOT CHORD 1-3=-56/163

NOTES

FORCES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 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. 1/2/2023 BEFORE USE.

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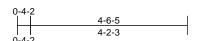


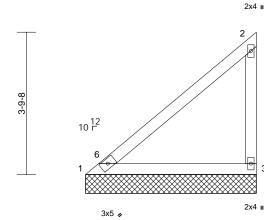
Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V04	Valley	2	1	Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:28

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Page: 1





4-6-5

Scale	=	1:3	υ.,

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.45	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 19 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 4-6-5 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=4-6-10, 3=4-6-10 Max Horiz 1=104 (LC 11)

Max Uplift 3=-38 (LC 14) Max Grav 1=251 (LC 20), 3=271 (LC 20)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-318/115, 2-3=-186/72

BOT CHORD 1-3=-69/248

NOTES

FORCES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

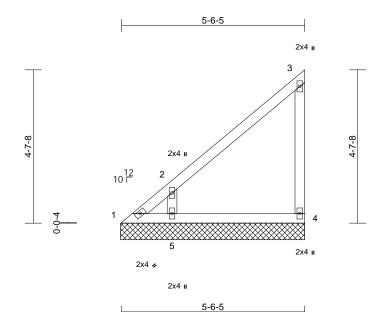
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V05	Valley	2	1	I75941936 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:28 ID:8UIRA8eeptPBmZl9JEQVbSzo53Z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 25 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

> 5-6-5 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

BOT CHORD REACTIONS (size)

1=5-6-10, 4=5-6-10, 5=5-6-10

Max Horiz 1=130 (LC 11)

Max Uplift 1=-56 (LC 12), 4=-32 (LC 11), 5=-96 (LC 14)

Max Grav 1=78 (LC 11), 4=197 (LC 20), 5=462 (LC 20)

(lb) - Maximum Compression/Maximum

Tension 1-2=-215/219, 2-3=-156/112, 3-4=-164/50 TOP CHORD

BOT CHORD 1-5=-83/73, 4-5=-45/67

WEBS 2-5=-463/313

NOTES

FORCES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 4, 56 lb uplift at joint 1 and 96 lb uplift at joint 5.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 28,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

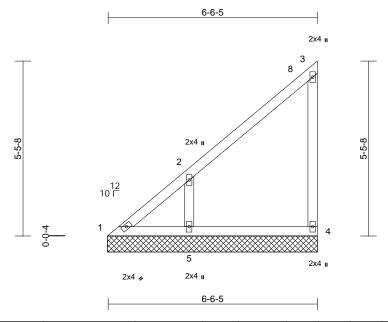
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V06	Valley	2	1	Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:29 ID:C5eglSdOHF9TXFcmBpO1W1zo53b-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale	<u> </u>	1.36

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 31 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)

1=6-6-10, 4=6-6-10, 5=6-6-10

Max Horiz 1=155 (LC 11)

Max Uplift 1=-23 (LC 10), 4=-37 (LC 11),

5=-104 (LC 14)

Max Grav 1=102 (LC 25), 4=200 (LC 20),

5=452 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-161/215, 2-3=-154/123, 3-4=-167/55

BOT CHORD 1-5=-54/102, 4-5=-54/80 **WEBS**

2-5=-387/249

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 4, 23 lb uplift at joint 1 and 104 lb uplift at joint 5.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 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. 1/2/2023 BEFORE USE.

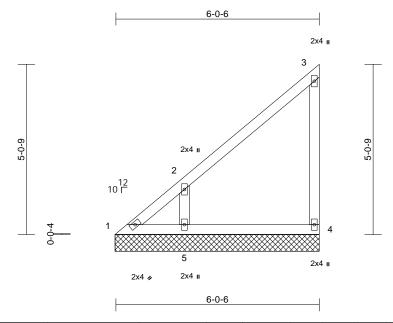
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Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V06A	Valley	2	1	Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:29 ID:oWyY7RaV_KnvgntCWhqKuPzo53e-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.2

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 28 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. Rigid ceiling directly applied or 10-0-0 oc

bracing.

BOT CHORD REACTIONS (size)

1=6-0-11, 4=6-0-11, 5=6-0-11

Max Horiz 1=143 (LC 11)

Max Uplift 1=-33 (LC 12), 4=-35 (LC 11),

5=-99 (LC 14)

Max Grav 1=85 (LC 11), 4=199 (LC 20),

5=449 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-182/213, 2-3=-155/118, 3-4=-166/53

1-5=-55/73, 4-5=-50/73 **BOT CHORD WEBS**

2-5=-407/269

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 4, 33 lb uplift at joint 1 and 99 lb uplift at joint 5.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 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. 1/2/2023 BEFORE USE.

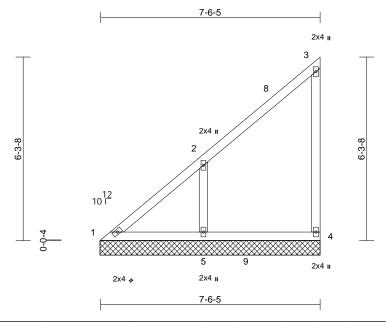
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Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V07	Valley	2	1	I75941939 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:29 ID:s7qnilZFSjXBQUjpPGosp_zo53g-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 37 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. Rigid ceiling directly applied or 10-0-0 oc

bracing.

BOT CHORD REACTIONS (size)

1=7-6-10, 4=7-6-10, 5=7-6-10

Max Horiz 1=181 (LC 11)

Max Uplift 1=-14 (LC 10), 4=-41 (LC 11),

5=-115 (LC 14)

Max Grav 1=153 (LC 25), 4=207 (LC 5),

5=492 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-199/229, 2-3=-155/131, 3-4=-166/60

BOT CHORD 1-5=-63/166, 4-5=-63/92

WEBS 2-5=-387/237

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this 4) design.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 4, 14 lb uplift at joint 1 and 115 lb uplift at joint 5.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

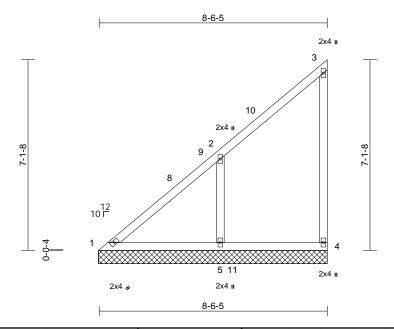
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V08	Valley	2	1	I75941940 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:29 ID:RY9f4jXNAo9cZ0_Ej8E9CLzo53j-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 43 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)

1=8-6-10, 4=8-6-10, 5=8-6-10

Max Horiz 1=206 (LC 11)

Max Uplift 1=-8 (LC 10), 4=-45 (LC 11),

5=-124 (LC 14)

Max Grav 1=199 (LC 25), 4=199 (LC 5),

5=569 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-264/246, 2-3=-160/137, 3-4=-162/63

BOT CHORD 1-5=-73/226, 4-5=-73/104 **WEBS**

2-5=-425/263

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-1-15, Exterior(2R) 4-1-15 to 8-4-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 4, 8 lb uplift at joint 1 and 124 lb uplift at joint 5.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 28,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

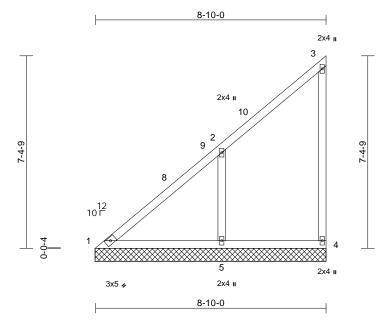
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V08A	Valley	2	1	I75941941 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:29 ID:VA1uf1V6eBuuKjrrcjCh6wzo53l-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.24	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 45 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)

1=8-10-5, 4=8-10-5, 5=8-10-5

Max Horiz 1=214 (LC 11)

Max Uplift 1=-6 (LC 10), 4=-47 (LC 11), 5=-127 (LC 14)

Max Grav 1=213 (LC 25), 4=194 (LC 5), 5=593 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-283/252, 2-3=-164/138, 3-4=-160/64

BOT CHORD 1-5=-75/243, 4-5=-75/108 **WEBS**

2-5=-434/263

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-5-10, Exterior(2R) 4-5-10 to 8-8-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 4, 6 lb uplift at joint 1 and 127 lb uplift at joint 5.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 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. 1/2/2023 BEFORE USE.

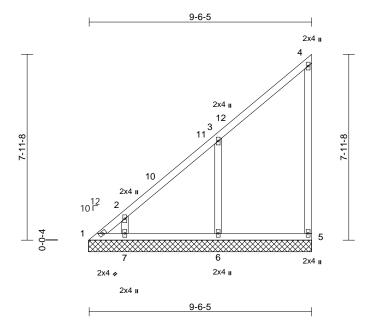
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V09	Valley	2	1	Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:29 ID:Znv8EMTs6ZeA5PhTUIAD1Vzo53n-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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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	1.15	TC	0.55	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 50 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)

1=9-6-10, 5=9-6-10, 6=9-6-10,

7=9-6-10

Max Horiz 1=231 (LC 11)

1=-73 (LC 12), 5=-50 (LC 11), Max Uplift 6=-100 (LC 14), 7=-71 (LC 14)

Max Grav 1=134 (LC 11), 5=218 (LC 5),

6=508 (LC 5), 7=300 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-230/280, 2-3=-193/241, 3-4=-160/136, 4-5=-171/59

1-7=-99/114, 6-7=-82/114, 5-6=-82/114

3-6=-393/211, 2-7=-228/164 WFBS

NOTES

BOT CHORD

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-1-15, Exterior(2R) 5-1-15 to 9-4-14 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
- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 5, 73 lb uplift at joint 1, 100 lb uplift at joint 6 and 71 lb
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 28,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

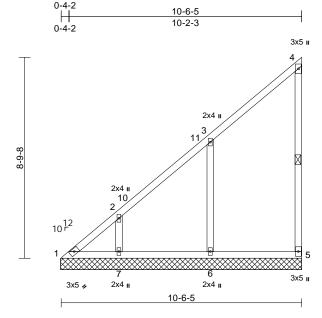
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V10	Valley	2	1	Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:29 ID:4KqLSCGZL1NkweJ?RWr?lizo543-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 57 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. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

WERS

1 Row at midpt 4-5 **REACTIONS** (size)

1=10-6-10, 5=10-6-10, 6=10-6-10,

7=10-6-10 Max Horiz 1=257 (LC 11)

Max Uplift 1=-46 (LC 12), 5=-55 (LC 11),

6=-87 (LC 14), 7=-86 (LC 14) Max Grav

1=155 (LC 25), 5=218 (LC 5),

6=505 (LC 5), 7=337 (LC 24)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-244/287, 2-3=-203/247, 3-4=-166/142,

4-5=-171/60 BOT CHORD 1-7=-91/148, 6-7=-91/126, 5-6=-91/126

3-6=-392/190, 2-7=-230/141 WEBS

NOTES

TOP CHORD

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-1-15, Exterior(2R) 6-1-15 to 10-4-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 5, 46 lb uplift at joint 1, 87 lb uplift at joint 6 and 86 lb
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



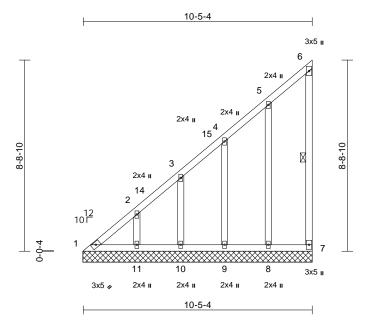
August 28,2025



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V10A	Valley	2	1	Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:29 ID:8xia1WEJpQ70hK9dJ5pXDHzo545-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:52.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 71 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.

WERS 1 Row at midpt 6-7

REACTIONS (size) 1=10-5-9, 7=10-5-9, 8=10-5-9,

9=10-5-9, 10=10-5-9, 11=10-5-9

Max Horiz 1=255 (LC 11)

Max Uplift 1=-41 (LC 10), 7=-60 (LC 13), 8=-30 (LC 16), 9=-33 (LC 14),

10=-63 (LC 14), 11=-47 (LC 14)

Max Grav 1=155 (LC 25), 7=95 (LC 20),

8=267 (LC 20), 9=226 (LC 20)

10=156 (LC 24), 11=210 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-238/281, 2-3=-209/244, 3-4=-171/209,

4-5=-162/182, 5-6=-109/108, 6-7=-80/31 BOT CHORD 1-11=-90/158, 10-11=-90/126, 9-10=-90/126,

8-9=-90/126, 7-8=-90/126

WFBS 5-8=-226/70, 4-9=-184/118, 3-10=-138/84,

2-11=-151/77

NOTES

Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-0-14, Exterior(2R) 6-0-14 to 10-3-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this 4) design
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 7, 41 lb uplift at joint 1, 30 lb uplift at joint 8, 33 lb uplift at joint 9, 63 lb uplift at joint 10 and 47 lb uplift at joint 11.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 28,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

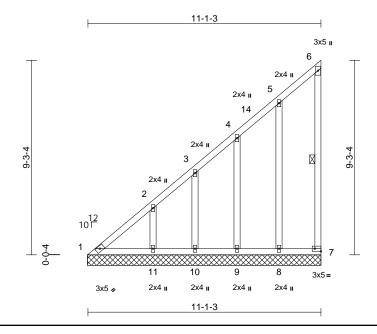
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V11	Valley	2	1	Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:29 ID:GAS3B9BpmBdaCjrs4Fkb3Rzo549-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:54.9

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 77 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 6-7

REACTIONS (size)

1=11-1-8, 7=11-1-8, 8=11-1-8, 9=11-1-8, 10=11-1-8, 11=11-1-8

Max Horiz 1=271 (LC 11)

Max Uplift 1=-39 (LC 10), 7=-66 (LC 13), 8=-64 (LC 14), 9=-55 (LC 14),

10=-59 (LC 14), 11=-61 (LC 14) Max Grav 1=179 (LC 25), 7=95 (LC 20),

8=267 (LC 20), 9=214 (LC 20), 10=136 (LC 24), 11=260 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-263/380, 2-3=-213/315, 3-4=-178/275,

4-5=-171/238, 5-6=-112/139, 6-7=-84/30 **BOT CHORD** 1-11=-96/218, 10-11=-96/158, 9-10=-96/158,

8-9=-96/158, 7-8=-96/158

WEBS 5-8=-226/74, 4-9=-169/147, 3-10=-140/108,

2-11=-199/158

NOTES

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-1-8, Exterior(2N) 3-1-8 to 7-11-12, Corner(3E) 7-11-12 to 10-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 6)
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 7, 39 lb uplift at joint 1, 64 lb uplift at joint 8, 55 lb uplift at joint 9, 59 lb uplift at joint 10 and 61 lb uplift at joint 11.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- This truss is designed in accordance with the 2018 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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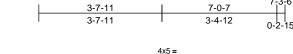
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

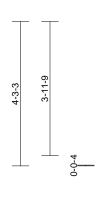


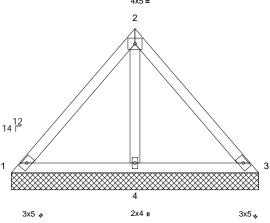
Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V12	Valley	1	1	I75941946 Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:29 ID:YFsH5k3X67M?0B5xV9ZFfKzo54J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







7-3-6

Scale = 1:34.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 32 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

7-3-6 oc purlins.

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

bracing.

REACTIONS (size) 1=7-3-13, 3=7-3-13, 4=7-3-13

Max Horiz 1=-85 (LC 12)

Max Uplift 1=-16 (LC 21), 3=-16 (LC 20),

4=-90 (LC 14)

1=94 (LC 20), 3=94 (LC 21), 4=546 Max Grav

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-87/217, 2-3=-87/217

TOP CHORD 1-4=-163/112, 3-4=-163/112 **BOT CHORD**

WEBS 2-4=-444/124

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 4-3-13, Exterior(2É) 4-3-13 to 7-3-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1, 16 lb uplift at joint 3 and 90 lb uplift at joint 4.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 28,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

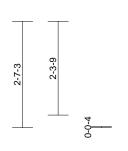
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

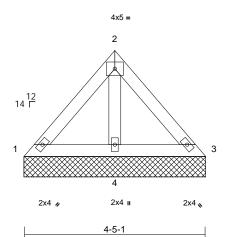


Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V13	Valley	1	1	Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:29 $ID:8gA9Ti1fqC_Q9jMMq1?Y1izo54M-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$







Scale = 1:28.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/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

TOP CHORD Structural wood sheathing directly applied or

4-5-1 oc purlins.

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

bracing.

REACTIONS (size) 1=4-5-8, 3=4-5-8, 4=4-5-8 Max Horiz 1=-50 (LC 12)

Max Uplift 4=-30 (LC 14)

Max Grav 1=91 (LC 20), 3=91 (LC 21), 4=265

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-76/84, 2-3=-76/84

BOT CHORD 1-4=-69/54, 3-4=-69/54

WEBS 2-4=-176/36

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 5) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



August 28,2025

Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

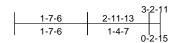
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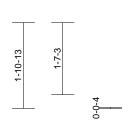


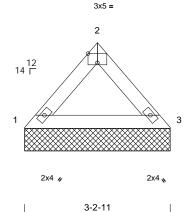
Job	Truss	Truss Type	Qty	Ply	55 Magnolia Acres-Roof-Taylor FA TMB FL GLH
25080114-01	V14	Valley	1	1	Job Reference (optional)

Run: 8.73 S Aug 13 2025 Print: 8.730 S Aug 13 2025 MiTek Industries, Inc. Wed Aug 27 07:46:30 ID:FuxedK_8mzU?g62abBxctszo54Q-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:25.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	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	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 11 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

3-2-11 oc purlins.

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

bracing.

REACTIONS (size) 1=3-2-11, 3=3-2-11

Max Horiz 1=-35 (LC 12)

Max Uplift 1=-1 (LC 15), 3=-1 (LC 14) Max Grav 1=155 (LC 20), 3=155 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-173/18, 2-3=-173/18

BOT CHORD 1-3=-13/106

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.

- 7) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1 and 1 lb uplift at joint 3.
- 11) This truss is designed in accordance with the 2018 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. 1/2/2023 BEFORE USE.

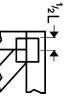
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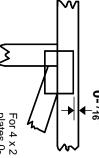


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

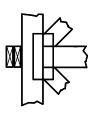
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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/letter where bearings occur Min size shown is for crushing only.

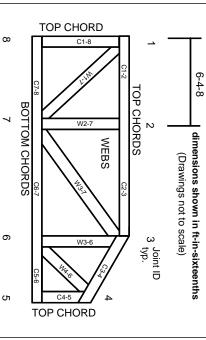
Industry Standards: ANSI/TPI1: National I

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, Restraining & Bracing of Metal Plate Connected Wood Trusses.

DSB-22:

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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

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

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MITEK



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

▲ 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.
- Cut members to bear tightly against each other.

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- 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.
- 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.
- 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.
- The design does not take into account any dynamic or other loads other than those expressly stated.