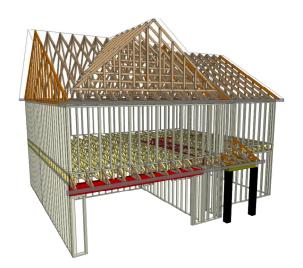


Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450

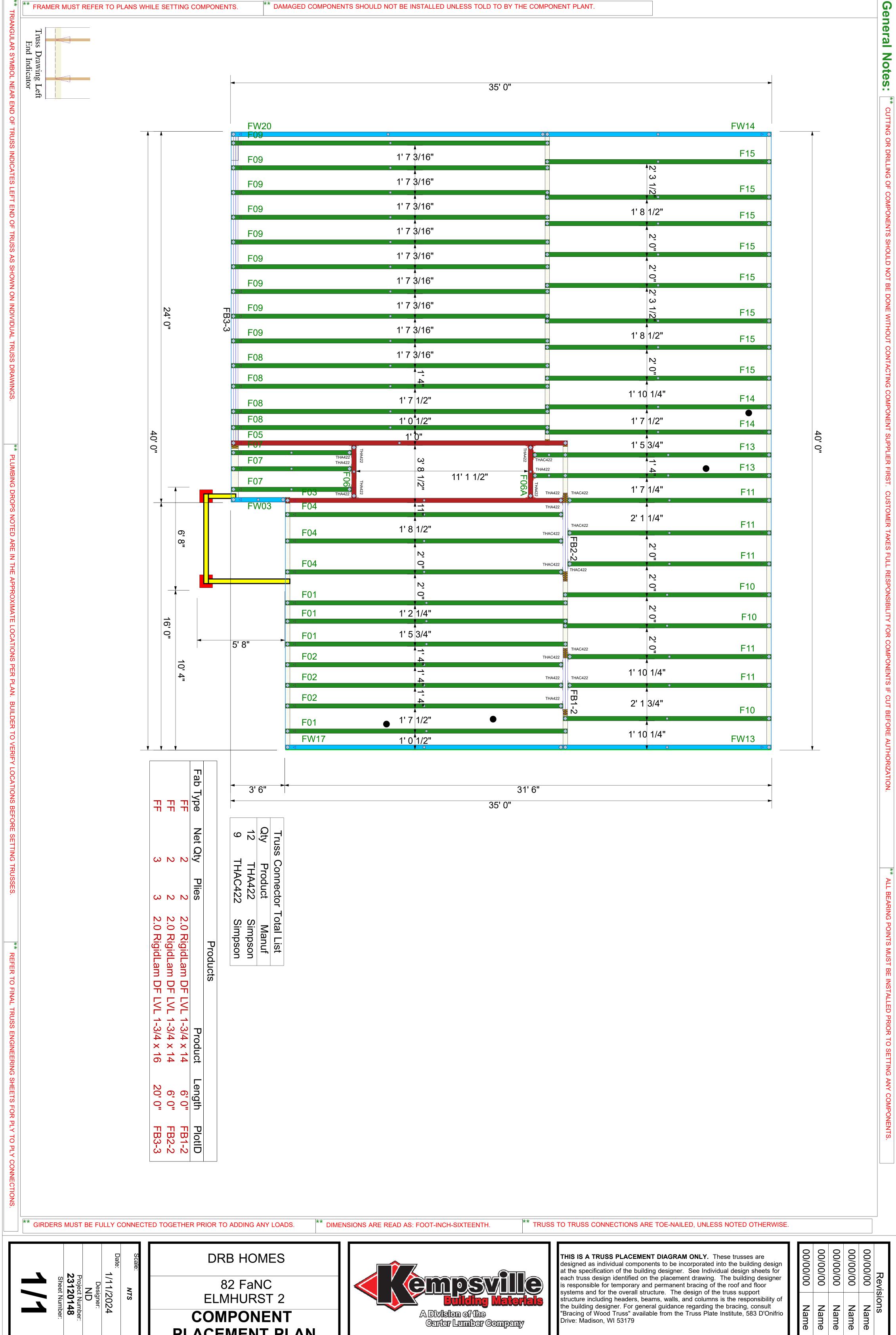
Builder: DRB HOMES
Model: 82 FaNC
ELMHURST 2



## THE PLACEMENT PLAN NOTES:

- 1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
- 2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
- 3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
- 4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
- 5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
- 6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
- 7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
- 8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.

Apprved by:	Date:
-------------	-------



\*\* ALL BEARING POINT

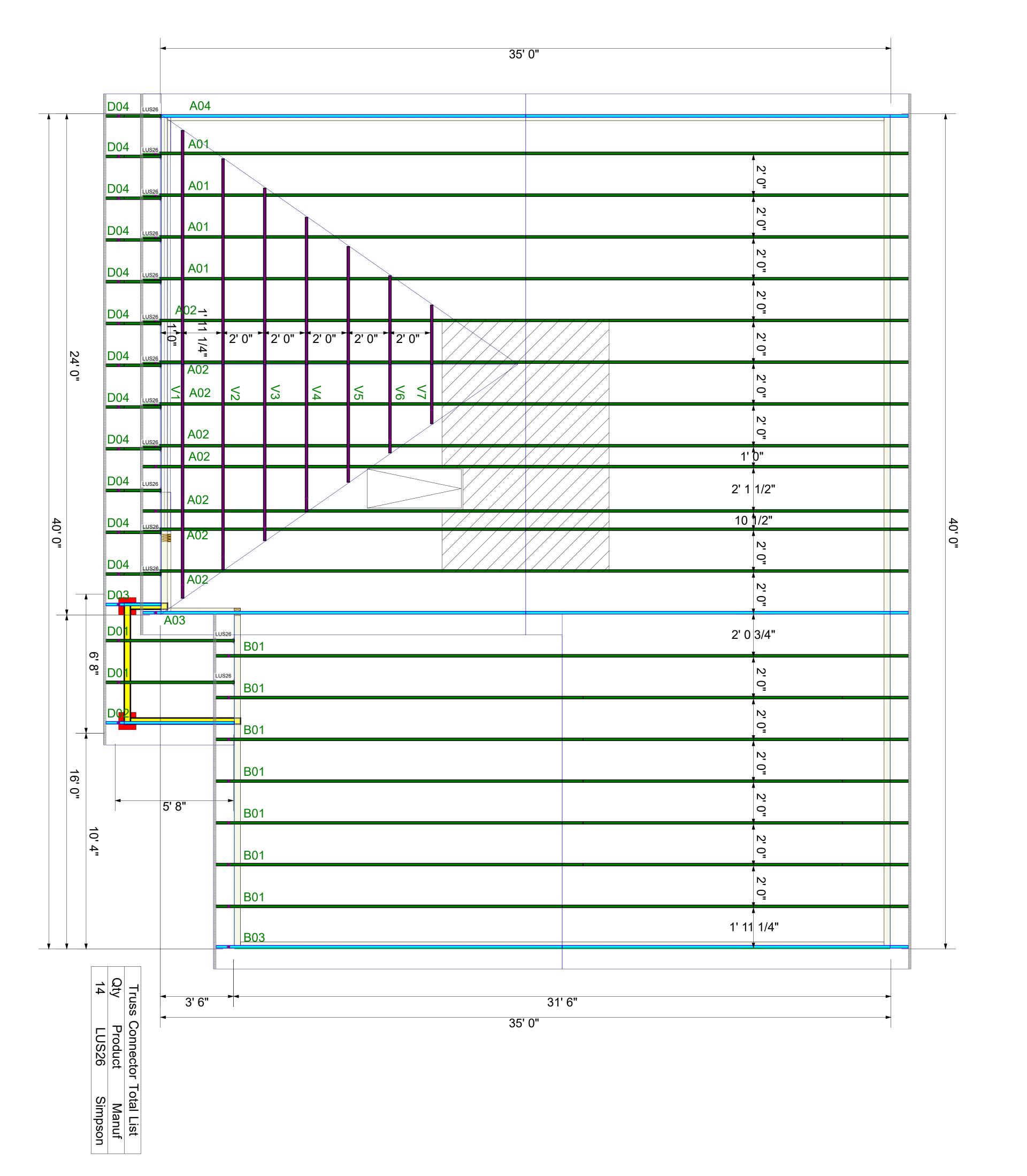
**PLACEMENT PLAN** 

Revi	Revisions
00/00/00	Name

PLUMBING DROPS NOTED ARE IN THE APPROXIMATE LOCATIONS PER PLAN.

BUILDER TO VERIFY LOCATIONS BEFORE SETTING TRUSSES

REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS



\*\* GIRDERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.

\*\* DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.

\*\* TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE.

1/11/2024 Project Number: 23120148
Sheet Number: Designer: NTS

DRB HOMES 82 FaNC ELMHURST 2 COMPONENT **PLACEMENT PLAN** 



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Madison, WI 53179

Revisions	sions
00/00/00	Name

**General Notes:** 

\*\* CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER

FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION.

\*\* ALL BEARING POINT

S MUST BE INSTALLED PRIOR TO SETTING ANY COMPONENTS



#### **Trenco**

818 Soundside Rd Edenton, NC 27932

Re: 23120148

DRB GROUP - 82 FaNC

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: I62998107 thru I62998143

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



January 12,2024

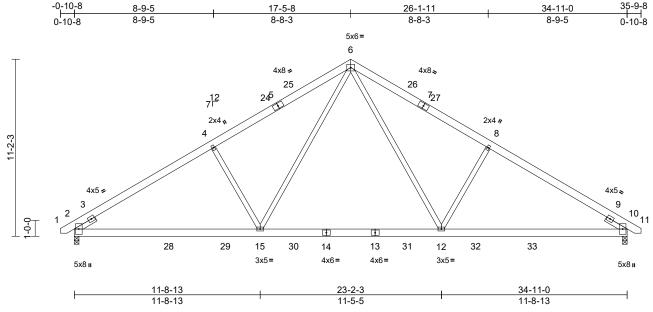
Gilbert, Eric

**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	DRB GROUP - 82 FaNC	
23120148	A01	Common	4	1	Job Reference (optional)	162998107

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu. Jan 11 14:53:39 ID:gjaDKQLY7lcou8lik6PeZ7yHzji-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:72.8 Plate Offsets (X, Y): [2:0-4-2,0-0-14], [10:0-4-2,0-0-14]

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	0.73	Vert(LL)	-0.20	12-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.33	12-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.06	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 238 lb	FT = 20%

#### LUMBER

TOP CHORD 2x6 SP No 2 **BOT CHORD** 2x6 SP No.2

**WEBS** 2x4 SP No.2 \*Except\* 4-15,8-12:2x4 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

3-8-6 oc purlins.

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

bracing.

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

Max Horiz 2=-248 (LC 12)

Max Uplift 2=-139 (LC 14), 10=-139 (LC 15)

Max Grav 2=1696 (LC 24), 10=1696 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-2393/227, 4-6=-2211/285,

6-8=-2211/285, 8-10=-2394/227, 10-11=0/20 2-15=-263/2147, 12-15=-18/1423,

**BOT CHORD** 10-12=-117/1961

**WEBS** 6-15=-149/1040, 6-12=-149/1040,

4-15=-511/302, 8-12=-511/302

#### NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-1 to 2-9-14, Interior (1) 2-9-14 to 13-11-10, Exterior(2R) 13-11-10 to 20-11-6, Interior (1) 20-11-6 to 32-1-2, Exterior(2E) 32-1-2 to 35-7-1 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 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.
- 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



January 12,2024

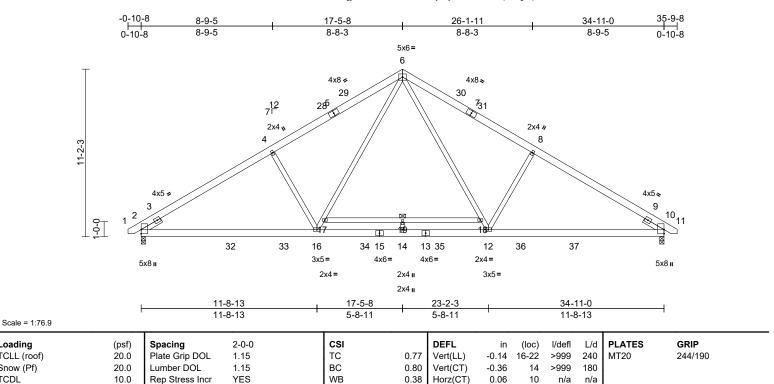
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)



Jo	b	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23	3120148	A02	Common	8	1	Job Reference (optional)	162998108

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:41 ID:gjaDKQLY7lcou8lik6PeZ7yHzji-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



LUMBER

Loading

TCLL (roof)

Snow (Pf)

**TCDL** 

**BCLL** 

BCDL

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x6 SP No.2

WFBS 2x4 SP No.2 \*Except\* 4-16,8-12,19-14:2x4

0.0

10.0

Code

SP No 3

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

-- 1-6-0

**BRACING** 

WFBS

FORCES

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

3-3-3 oc purlins

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

bracing. 1 Row at midpt

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

Max Horiz 2=-248 (LC 12)

Max Uplift 2=-39 (LC 14), 10=-39 (LC 15) Max Grav 2=1742 (LC 24), 10=1742 (LC 25)

17-18

(lb) - Maximum Compression/Maximum

Tension

1-2=0/20, 2-4=-2481/29, 4-6=-2298/87,

TOP CHORD

6-8=-2298/87, 8-10=-2481/29, 10-11=0/20 2-16=-173/2220, 14-16=0/1573,

12-14=0/1573, 10-12=-26/2034

16-17=-55/1030, 6-17=-40/1092, 6-18=-40/1092, 12-18=-55/1030,

4-16=-495/318, 8-12=-495/318,

17-19=-106/0, 18-19=-106/0, 14-19=0/38

#### NOTES

**WEBS** 

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-1 to 2-9-14, Interior (1) 2-9-14 to 13-11-10, Exterior(2R) 13-11-10 to 20-11-6, Interior (1) 20-11-6 to 32-1-2, Exterior(2E) 32-1-2 to 35-7-1 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

Matrix-MSH

- 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
- 200.0lb AC unit load placed on the bottom chord, 17-5-8 from left end, supported at two points, 5-0-0 apart.
- 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
- 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



Weight: 255 lb

FT = 20%

Page: 1

January 12,2024

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

IRC2018/TPI2014

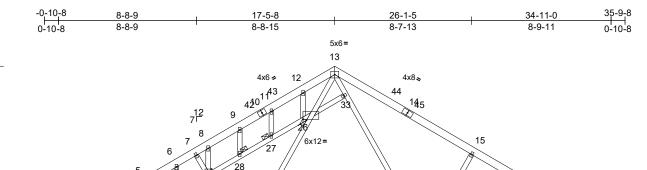
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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		
23120148	A03	Common	1	1	Job Reference (optional)	162998109

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:42 ID:inUdrcRV35kd KkiB9UROuyHzfj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3x5= 4x6= 4x6= 3x5= 4x8 i 4x81 2-10-6 3-7-12 2-10-6 0-9-6 11-8-13 23-2-3 34-11-0 11-8-13 8-1-1 11-5-5

21

20

47

19

48

46

Scale = 1:72.8

Plate Offsets (X, Y): [2:0-3-2,0-0-12], [2:0-9-0,0-2-0], [3:0-3-12,0-2-8], [17:0-4-2,0-1-6], [26:0-2-9,0-0-12], [29:0-2-4,0-2-0]

5x8

22

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)	-0.23	19-22	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.37	19-22	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.05	17	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 283 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2 BOT CHORD 2x6 SP No.2

11-2-3

<u></u>

5x8 = 4x5 4

24 3223

**WEBS** 2x4 SP No.3 \*Except\* 22-13,19-13:2x4 SP

No.2

**OTHERS** 2x4 SP No.3

SLIDER Left 2x4 SP No.3 -- 1-6-5, Right 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-11 oc purlins

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

bracing.

**JOINTS** 1 Brace at Jt(s): 26, 27, 28, 30, 31

REACTIONS (size)

TOP CHORD

2=3-9-8, 17=0-3-8, 23=0-3-8. 24=3-9-8, 25=3-9-8, 34=3-9-8

Max Horiz 2=248 (LC 13), 34=248 (LC 13) Max Uplift 2=-6 (LC 15), 17=-141 (LC 15),

24=-80 (LC 15), 25=-209 (LC 26), 34=-6 (LC 15)

2=1240 (LC 5), 17=1640 (LC 25),

23=418 (LC 7), 24=191 (LC 25), 25=65 (LC 12), 34=1240 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/20, 2-3=-1616/60, 3-4=-1715/154,

4-5=-1725/187, 5-6=-1654/199, 6-7=-1626/202, 7-8=-1632/212, 8-9=-2100/330, 9-11=-2021/339 11-12=-2014/365, 12-13=-1892/415, 13-15=-2112/285, 15-17=-2293/224,

17-18=0/20

BOT CHORD 2-25=-198/1563, 24-25=-198/1563,

23-24=-173/1903, 22-23=-173/1903, 19-22=-10/1314, 17-19=-117/1873

**WEBS** 22-26=-95/844, 13-26=-303/895,

13-33=-145/1061, 19-33=-145/1061, 7-29=0/491, 22-29=-431/245, 15-19=-498/301, 12-26=-8/257,

11-27=-97/28, 9-28=-5/50, 8-29=-970/211, 6-30=-39/0, 5-31=0/33, 4-32=-127/43,

3-25=-328/246, 24-32=-511/45, 31-32=-461/34, 30-31=-476/33, 29-30=-456/36, 28-29=-137/263

27-28=-134/240, 26-27=-149/292, 26-33=-8/49

NOTES

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

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-1 to 2-9-14, Interior (1) 2-9-14 to 13-11-10, Exterior(2R) 13-11-10 to 20-11-6, Interior (1) 20-11-6 to 32-1-2, Exterior(2E) 32-1-2 to 35-7-1 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.

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.

8) Gable studs spaced at 2-0-0 oc.

49

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4x5.

8

16 17<sub>18</sub>

\* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

11) 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.

LOAD CASE(S) Standard



January 12,2024

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)



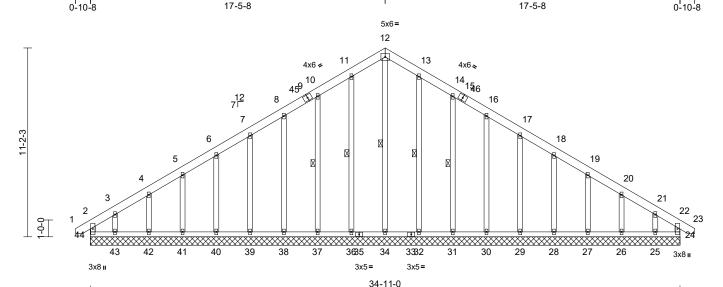
Job Truss Truss Type Otv Ply DRB GROUP - 82 FaNC 162998110 23120148 A04 1 Common Supported Gable Job Reference (optional)

17-5-8

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Jan 11 14:53:42 ID:xn3SJVlpx40x6KkiicyXRNyHzfJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

35-9-8 34-11-0



Scale = 1:68.2

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	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	24	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 292 lb	FT = 20%

LUMBER TOP CHORD 2x6 SP No.2

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

OTHERS 2x4 SP No.3 \*Except\* 34-12:2x4 SP No.2

**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. 12-34 11-36 10-37 1 Row at midnt

WEBS

VVLDC	1 I TOW at	. Illiapt 12-0 <del>1</del> , 11-00, 10-01,
		13-32, 14-31
REACTIONS	(size)	24=34-11-0, 25=34-11-0,
		26=34-11-0, 27=34-11-0,
		28=34-11-0, 29=34-11-0,

30=34-11-0, 31=34-11-0, 32=34-11-0, 34=34-11-0, 36=34-11-0, 37=34-11-0, 38=34-11-0 39=34-11-0 40=34-11-0, 41=34-11-0,

42=34-11-0, 43=34-11-0, 44=34-11-0

Max Horiz 44=271 (LC 13)

Max Uplift 24=-62 (LC 11), 25=-120 (LC 15), 26=-42 (LC 15), 27=-52 (LC 15), 28=-50 (LC 15), 29=-50 (LC 15), 30=-51 (LC 15), 31=-63 (LC 15), 32=-13 (LC 15), 36=-20 (LC 14), 37=-61 (LC 14), 38=-51 (LC 14), 39=-50 (LC 14), 40=-50 (LC 14),

WFBS 41=-53 (LC 14), 42=-39 (LC 14), 43=-147 (LC 14), 44=-149 (LC 10)

Max Grav 24=152 (LC 24), 25=176 (LC 25), 26=167 (LC 25), 27=167 (LC 25), 28=166 (LC 25), 29=166 (LC 25), 30=170 (LC 22), 31=228 (LC 22), 32=242 (LC 22), 34=217 (LC 15), 36=242 (LC 21), 37=228 (LC 21), 38=170 (LC 21), 39=167 (LC 24), 40=166 (LC 24), 41=168 (LC 24), 42=166 (LC 21), 43=214 (LC 24),

44=219 (LC 25) (lb) - Maximum Compression/Maximum Tension

2-44=-180/123, 1-2=0/25, 2-3=-231/211, 3-4=-174/167, 4-5=-164/158, 5-6=-150/154, 6-7=-136/175, 7-8=-122/203, 8-10=-120/233, 10-11=-151/286, 11-12=-165/312,

12-13=-165/312, 13-14=-151/286, 14-16=-120/233, 16-17=-93/186, 17-18=-66/140, 18-19=-71/99, 19-20=-81/73,

20-21=-89/80, 21-22=-145/108, 22-23=0/25, 22-24=-126/53

BOT CHORD 43-44=-99/122, 42-43=-99/122, 41-42=-99/122, 40-41=-99/122,

39-40=-99/122, 38-39=-99/122 37-38=-99/122, 36-37=-99/122, 34-36=-99/122, 32-34=-99/122

31-32=-99/122, 30-31=-99/122, 29-30=-99/122, 28-29=-99/122 27-28=-99/122, 26-27=-99/122, 25-26=-99/122, 24-25=-99/122

12-34=-219/59, 11-36=-202/44, 10-37=-188/85, 8-38=-130/75, 7-39=-127/74, 6-40=-127/74, 5-41=-126/75, 4-42=-126/71,

3-43=-147/127, 13-32=-202/37, 14-31=-188/87, 16-30=-130/75, 17-29=-126/74, 18-28=-127/74, 19-27=-126/75, 20-26=-128/72, 21-25=-124/110

NOTES

Unbalanced roof live loads have been considered for this design.

Page: 1

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-1 to 2-9-14, Exterior(2N) 2-9-14 to 13-11-10, Corner(3R) 13-11-10 to 20-11-6, Exterior(2N) 20-11-6 to 32-1-2, Corner(3E) 32-1-2 to 35-7-1 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.



### 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

**FORCES** 

TOP CHORD

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MIT-473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITEK's 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	DRB GROUP - 82 FaNC	
23120148	A04	Common Supported Gable	1	1	Job Reference (optional)	2998110

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:42 ID:xn3SJVlpx40x6KkiicyXRNyHzfJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

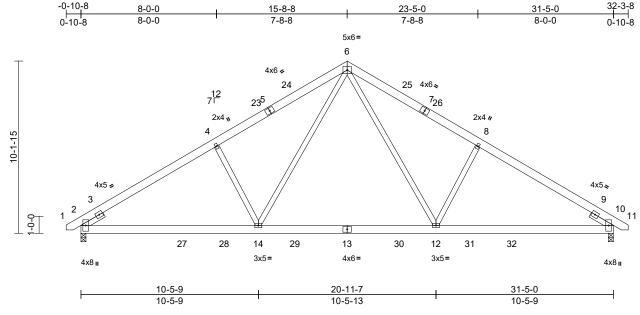
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 44, 62 lb uplift at joint 24, 20 lb uplift at joint 36, 61 Ib uplift at joint 37, 51 lb uplift at joint 38, 50 lb uplift at joint 39, 50 lb uplift at joint 40, 53 lb uplift at joint 41, 39 Ib uplift at joint 42, 147 lb uplift at joint 43, 13 lb uplift at joint 32, 63 lb uplift at joint 31, 51 lb uplift at joint 30, 50 Ib uplift at joint 29, 50 lb uplift at joint 28, 52 lb uplift at joint 27, 42 lb uplift at joint 26 and 120 lb uplift at joint
- 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	DRB GROUP - 82 FaNC	
23120148	B01	Common	7	1	Job Reference (optional)	162998111

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Jan 11 14:53:43 ID:n0XQrpeEWqLR iOw19HuR yHze9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:68 Plate Offsets (X, Y): [2:0-4-2,0-1-6], [10:0-4-2,0-1-6]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.16	12-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.26	12-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.05	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 215 lb	FT = 20%

#### LUMBER

TOP CHORD 2x6 SP No 2 **BOT CHORD** 2x6 SP No.2

**WEBS** 2x4 SP No.3 \*Except\* 14-6,12-6:2x4 SP No.2 SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-7-1 oc purlins.

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

bracing.

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

Max Horiz 2=224 (LC 13)

Max Uplift 2=-127 (LC 14), 10=-127 (LC 15) Max Grav 2=1516 (LC 24), 10=1516 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-2112/201, 4-6=-1963/260,

6-8=-1964/260, 8-10=-2112/201, 10-11=0/20

**BOT CHORD** 2-14=-228/1892, 12-14=-16/1262,

10-12=-96/1724

**WEBS** 4-14=-462/272, 6-14=-140/925,

6-12=-140/925, 8-12=-462/272

#### NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-1 to 2-5-11, Interior (1) 2-5-11 to 12-6-13, Exterior(2R) 12-6-13 to 18-10-3, Interior (1) 18-10-3 to 28-11-5, Exterior(2E) 28-11-5 to 32-1-1 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 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.
- 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



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	DRB GROUP - 82 FaNC	
23120148	B03	Common Supported Gable	1	1	Job Reference (optional)	162998112

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:43 ID:eDo5c2px20DPopr5qTS5W0yHza4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

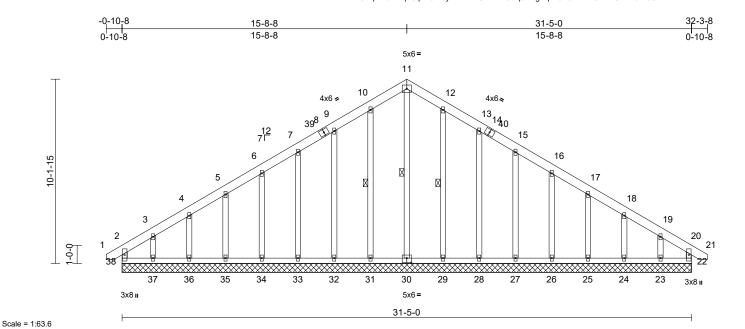


Plate Offsets (X, Y): [30:0-3-0,0-3-0]

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	22	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 251 lb	FT = 20%

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

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

TOP CHORD

**WEBS** 

LUMBER

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. 1 Row at midpt 11-30, 10-31, 12-29

REACTIONS (size) 22=31-5-0, 23=31-5-0, 24=31-5-0, 25=31-5-0. 26=31-5-0. 27=31-5-0. 28=31-5-0, 29=31-5-0, 30=31-5-0, 31=31-5-0, 32=31-5-0, 33=31-5-0,

34=31-5-0, 35=31-5-0, 36=31-5-0, 37=31-5-0, 38=31-5-0 Max Horiz 38=-240 (LC 12)

22=-47 (LC 11), 23=-104 (LC 15), 24=-40 (LC 15), 25=-51 (LC 15), 26=-48 (LC 15), 27=-49 (LC 15), 28=-60 (LC 15), 29=-17 (LC 15), 31=-22 (LC 14), 32=-59 (LC 14), 33=-49 (LC 14), 34=-48 (LC 14),

35=-51 (LC 14), 36=-37 (LC 14), 37=-123 (LC 14), 38=-114 (LC 10) 22=144 (LC 24), 23=176 (LC 29), Max Grav 24=160 (LC 25), 25=162 (LC 25), 26=161 (LC 25), 27=164 (LC 22), 28=221 (LC 22), 29=236 (LC 22),

30=193 (LC 27), 31=236 (LC 21), 32=221 (LC 21), 33=164 (LC 21), 34=161 (LC 24), 35=163 (LC 28), 36=159 (LC 21), 37=203 (LC 24), 38=195 (LC 25)

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

TOP CHORD 2-38=-163/99, 1-2=0/24, 2-3=-193/177,

3-4=-149/137, 4-5=-139/136, 5-6=-125/143, 6-7=-112/170, 7-9=-102/198, 9-10=-132/249, 10-11=-147/276, 11-12=-147/276,

12-13=-132/249, 13-15=-102/198. 15-16=-76/153, 16-17=-63/108, 17-18=-73/77, 18-19=-81/68, 19-20=-118/94,

20-21=0/24 20-22=-120/43 **BOT CHORD** 37-38=-89/107, 36-37=-89/107,

35-36=-89/107, 34-35=-89/107, 33-34=-89/107, 32-33=-89/107 31-32=-89/107, 29-31=-89/107, 28-29=-89/107, 27-28=-89/107

26-27=-89/107, 25-26=-89/107, 24-25=-89/107, 23-24=-89/107 22-23=-89/107

11-30=-190/46, 10-31=-198/45, **WEBS** 9-32=-182/82, 7-33=-125/72, 6-34=-123/72, 5-35=-123/73, 4-36=-121/67, 3-37=-144/116, 12-29=-198/40, 13-28=-182/83,

15-27=-125/72, 16-26=-123/72, 17-25=-123/72, 18-24=-123/68, 19-23=-126/103

#### NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph: TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-1 to 2-5-11, Exterior(2N) 2-5-11 to 12-6-13, Corner(3R) 12-6-13 to 18-10-3, Exterior(2N) 18-10-3 to 28-11-5, Corner(3E) 28-11-5 to 32-1-1 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.

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



January 12,2024

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	DRB GROUP - 82 FaNC	
23120148	B03	Common Supported Gable	1	1	l629981 Job Reference (optional)	12

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Jan 11 14:53:43 ID:eDo5c2px20DPopr5qTS5W0yHza4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff Page: 2

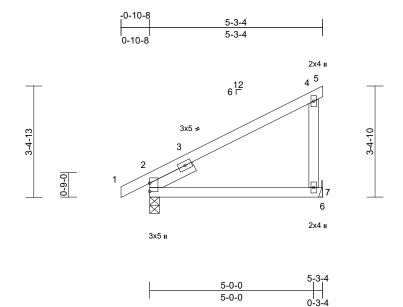
- 12) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 38, 47 lb uplift at joint 22, 22 lb uplift at joint 31, 59 lb uplift at joint 32, 49 lb uplift at joint 33, 48 lb uplift at joint 34, 51 lb uplift at joint 35, 37 lb uplift at joint 36, 123 lb uplift at joint 37, 17 lb uplift at joint 29, 60 lb uplift at joint 28, 49 lb uplift at joint 27, 48 lb uplift at joint 26, 51 lb uplift at joint 25, 40 lb uplift at joint 24 and 104 lb uplift at joint 23.
- 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	DRB GROUP - 82 FaNC	
23120148	D01	Monopitch	2	1	Job Reference (optional)	62998113

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:44 ID:M25sh9MsgfT5neCtu3GLFDyHzY3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:35.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.11	7-10	>566	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.09	7-10	>679	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	2	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

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

## **BRACING**

TOP CHORD Structural wood sheathing directly applied or

5-3-4 oc purlins, except end verticals.

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

bracing

REACTIONS (size) 2=0-3-8, 7= Mechanical

Max Horiz 2=110 (LC 14)

Max Uplift 2=-24 (LC 11), 7=-66 (LC 14)

Max Grav 2=345 (LC 21), 7=316 (LC 21) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-4=-174/209, 4-5=-12/0,

4-7=-232/167 2-7=-175/181, 6-7=0/0

BOT CHORD NOTES

**FORCES** 

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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 exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- 4) 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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



Page: 1

January 12,2024

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

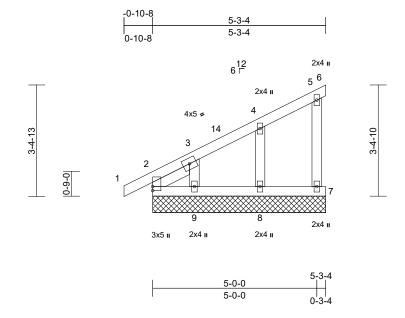
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building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property 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)



J	ob	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
2	3120148	D02	Monopitch Supported Gable	1	1	Job Reference (optional)	162998114

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:44 ID:QwVXrIYG8FMz4xrmGj2sMOyHzXq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:35.1

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	0.18	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	0.06	Horz(CT)	0.00	6	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 SLIDER Left 2x4 SP No.3 -- 1-3-13

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (size)

2=5-3-4, 6=5-3-4, 7=5-3-4, 8=5-3-4, 9=5-3-4, 10=5-3-4

Max Horiz 2=110 (LC 13), 10=110 (LC 13) Max Uplift 2=-6 (LC 10), 6=-9 (LC 21), 7=-20 (LC 14), 8=-41 (LC 14), 9=-61 (LC

14), 10=-6 (LC 10)

Max Grav 2=117 (LC 21), 6=8 (LC 14), 7=111 (LC 21), 8=234 (LC 21), 9=182 (LC

21), 10=117 (LC 21)

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

Tension

TOP CHORD 1-2=0/23, 2-3=-65/49, 3-4=-69/108, 4-5=-57/74, 5-6=-15/8, 5-7=-98/68 BOT CHORD 2-9=-36/66, 8-9=-36/66, 7-8=-36/66

**WEBS** 4-8=-192/172, 3-9=-148/194

#### NOTES

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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 2-1-8, Exterior(2N) 2-1-8 to 5-3-4 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

- 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 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.
- 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 6 lb uplift at joint 2, 9 lb uplift at joint 6, 20 lb uplift at joint 7, 41 lb uplift at joint 8, 61 lb uplift at joint 9 and 6 lb uplift at joint 2
- 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



January 12,2024

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 bucking 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)



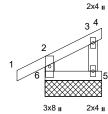
Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23120148	D03	Monopitch Supported Gable	1	1	Job Reference (optional)	

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:44 ID:F4so5Ld1j577oslwcz9GcfyHzXk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



6 T2







Scale = 1:36

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	0.18	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	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 9 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 1-9-4 oc purlins, except end verticals.

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

bracing.

REACTIONS 4=1-9-4, 5=1-9-4, 6=1-9-4 (size)

Max Horiz 6=53 (LC 11) Max Uplift 4=-8 (LC 14), 5=-19 (LC 11), 6=-23

(IC 14)

Max Grav 4=6 (LC 21), 5=55 (LC 21), 6=186

(LC 21)

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

Tension

TOP CHORD 2-6=-164/202, 1-2=0/38, 2-3=-32/26,

3-4=-15/3, 3-5=-52/48

BOT CHORD 5-6=-19/39

## **NOTES**

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 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.

- 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 6, 8 lb uplift at joint 4 and 19 lb uplift at joint 5
- 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



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Page: 1

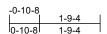
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/TPII 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)



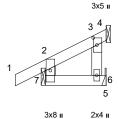
Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23120148	D04	Monopitch	12	1	Job Reference (optional)	162998116

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:44 ID:I5LOBXIjGLdkeY1b3Rjg46zeLMV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



6 T







Scale = 1:33.6

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

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	6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 9 lb	FT = 20%

#### LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-9-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 5= Mechanical, 7= Mechanical

5=52 (LC 11) Max Horiz

Max Uplift 3=-15 (LC 14), 5=-10 (LC 13),

7=-23 (LC 14)

Max Grav 3=75 (LC 21), 5=5 (LC 10), 7=183

(LC 21)

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

Tension

TOP CHORD 1-2=0/38, 2-3=-32/21, 3-4=-10/0, 3-6=0/38,

2-7=-165/108

BOT CHORD 6-7=-25/41, 5-6=-55/52

#### NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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
- 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.

- 4) 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.
- Bearings are assumed to be: , Joint 7 User Defined crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint
- 11) One RT8A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3. This connection is for uplift only and does not consider lateral forces
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- 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.
- 14) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



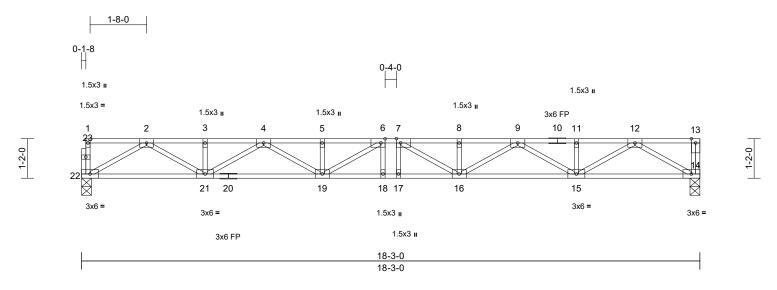
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January 12,2024

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23120148	F01	Floor	4	1	Job Reference (optional)	162998117

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:45 

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Scale = 1:34

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.24	Vert(LL)	-0.24	17-18	>906	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.33	17-18	>659	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.06	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 96 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

#### BRACING

TOP CHORD

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 14=0-3-8, 22=0-3-8 (size)

Max Grav 14=660 (LC 1), 22=656 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-22=-48/0, 13-14=-49/0, 1-2=-3/0, 2-3=-1808/0, 3-4=-1808/0, 4-5=-2715/0, 5-6=-2715/0, 6-7=-2848/0, 7-8=-2715/0,

8-9=-2715/0, 9-11=-1807/0, 11-12=-1807/0, 12-13=0/0

BOT CHORD 21-22=0/1031, 19-21=0/2357, 18-19=0/2848,

17-18=0/2848. 16-17=0/2848. 15-16=0/2357.

14-15=0/1032

WEBS 12-14=-1194/0, 2-22=-1189/0, 12-15=0/905,

2-21=0/907, 11-15=-111/0, 3-21=-112/0, 9-15=-642/0, 4-21=-641/0, 9-16=0/418, 4-19=0/418, 8-16=-134/0, 5-19=-134/0, 7-16=-331/114, 6-19=-331/114, 6-18=-72/83,

7-17=-72/82

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- 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.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

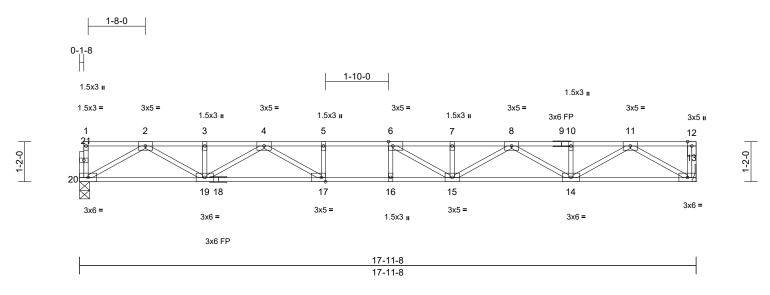


January 12,2024



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23120148	F02	Floor	3	1	Job Reference (optional)	162998118

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Scale = 1:33.6

Plate Offsets (X,	Y):	[6:0-1-8,Edge], [17:0-1-8,Edge]
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Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.59	Vert(LL)	-0.25	15-16	>838	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.35	15-16	>612	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 91 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard

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

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing

REACTIONS 13= Mechanical, 20=0-3-8 (size)

Max Grav 13=649 (LC 1), 20=645 (LC 1)

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

Tension

TOP CHORD 1-20=-48/0, 12-13=-49/0, 1-2=-3/0,

2-3=-1768/0, 3-4=-1768/0, 4-5=-2702/0, 5-6=-2702/0, 6-7=-2656/0, 7-8=-2656/0,

8-10=-1771/0, 10-11=-1771/0, 11-12=0/0

19-20=0/1009, 17-19=0/2303, 16-17=0/2702,

15-16=0/2702, 14-15=0/2304, 13-14=0/1013 WEBS

11-13=-1172/0, 2-20=-1164/0, 11-14=0/884. 2-19=0/887, 10-14=-114/0, 3-19=-120/0,

8-14=-622/0, 4-19=-624/0, 8-15=0/411,

4-17=0/609, 7-15=-181/13, 5-17=-215/0,

6-15=-364/197, 6-16=-99/50

## NOTES

**BOT CHORD** 

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections
- 4) 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.



January 12,2024

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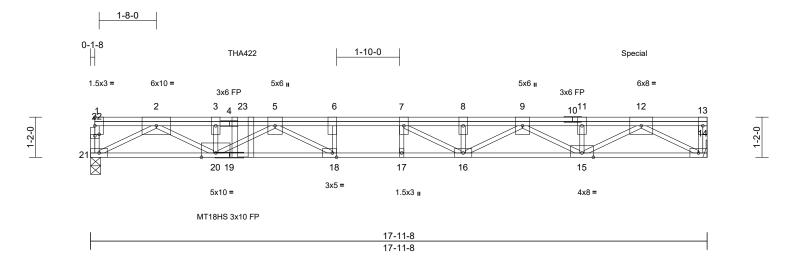
building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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	DRB GROUP - 82 FaNC	
23120148	F03	Floor Girder	1	1	Job Reference (optional)	162998119

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:45 ID:2cxlTIZWyE1VCjy2eD0NR1zwQPf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.6

Plate Offsets (X, Y): [18:0-1-8,Edge], [22:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.33	17-18	>653	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.44	17-18	>481	360	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.09	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 115 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.1(flat) 2x4 SP No.3(flat) **WEBS** 2x4 SP No.3(flat) OTHERS

#### **BRACING**

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

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

bracing

14= Mechanical, 21=0-3-8 REACTIONS (size) Max Grav 14=1049 (LC 1), 21=1255 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum

TOP CHORD 1-21=-96/0, 13-14=-89/0, 1-2=-6/0, 2-3=-3894/0, 3-5=-3894/0, 5-6=-5183/0,

6-7=-5183/0, 7-8=-4845/0, 8-9=-4845/0,

9-11=-3125/0, 11-12=-3125/0, 12-13=0/0

**BOT CHORD** 20-21=0/2097, 18-20=0/4834, 17-18=0/5183, 16-17=0/5183, 15-16=0/4098, 14-15=0/1730

WEBS 12-14=-1971/0. 2-21=-2383/0. 12-15=0/1603. 2-20=0/2064, 11-15=-203/0, 3-20=-460/0,

9-15=-1118/0, 5-20=-1081/0, 9-16=0/859,

5-18=-226/812, 8-16=-302/79

6-18=-340/100, 7-16=-903/135, 7-17=-31/62

#### NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

- CAUTION, Do not erect truss backwards
- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 4-5-4 from the left end to connect truss(es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 314 lb up at 15-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 14-21=-10, 1-13=-100 Concentrated Loads (lb)

Vert: 12=20 (F), 23=-383 (F)



January 12,2024

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

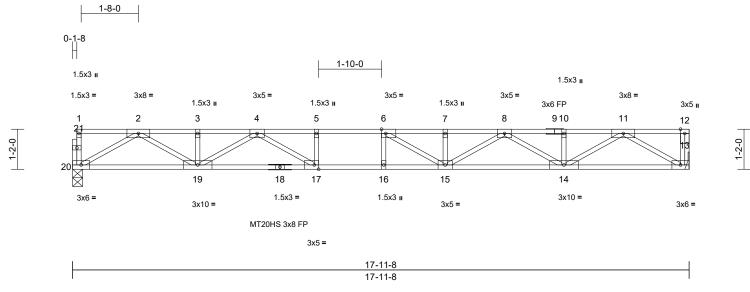
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	DRB GROUP - 82 FaNC
23120148	F04	Floor	3	1	Job Reference (optional)

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:45 ID:f7Hs21qlBoZZ5 gcPlyNHMzwQTB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.6

Plate Offsets	(X,	Y):	[6:0-	1-8,Edge],	[17:0-1-	8,Edge]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	-0.34	15-16	>629	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	вс	0.95	Vert(CT)	-0.46	15-16	>459	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.06	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH		, ,					Weight: 91 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) \*Except\* 18-13:2x4 SP BOT CHORD

2400F 2 0F(flat)

2x4 SP No.3(flat) WFBS

OTHERS 2x4 SP No.3(flat)

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-11-15 oc purlins, except end verticals.

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

bracing, Except:

2-2-0 oc bracing: 17-19.

REACTIONS 13= Mechanical, 20=0-3-8 (size)

Max Grav 13=974 (LC 1), 20=968 (LC 1)

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

TOP CHORD 1-20=-72/0, 12-13=-73/0, 1-2=-4/0,

2-3=-2652/0, 3-4=-2652/0, 4-5=-4051/0, 5-6=-4051/0, 6-7=-3978/0, 7-8=-3978/0,

8-10=-2652/0, 10-11=-2652/0, 11-12=0/0

**BOT CHORD** 19-20=0/1514, 17-19=0/3459, 16-17=0/4051, 15-16=0/4051, 14-15=0/3458, 13-14=0/1521

11-13=-1759/0. 2-20=-1746/0. 11-14=0/1321.

2-19=0/1329, 10-14=-165/0, 3-19=-177/0,

8-14=-941/0, 4-19=-942/0, 8-15=0/607

4-17=0/897, 7-15=-252/17, 5-17=-293/0,

6-15=-551/295, 6-16=-179/87

## NOTES

**WEBS** 

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated. All plates are 1.5x3 MT20 unless otherwise indicated.
- The Fabrication Tolerance at joint 18 = 11%
- Refer to girder(s) for truss to truss connections
- 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.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

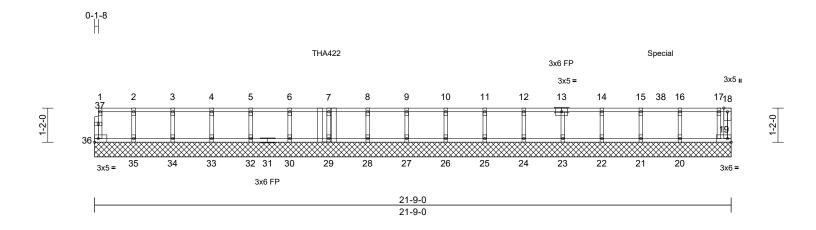


January 12,2024



J	lob	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
2	23120148	F05	Floor Girder	1	1	Job Reference (optional)	162998121

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:46 ID:nu5CKHBZ70LJhczN93UPVhzwQSj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:39.4

LUMBER

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.15	Horiz(TL)	0.00	19	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 92 lb	FT = 20%F, 11%E

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

BRACING TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)

22=21-9-0, 23=21-9-0, 24=21-9-0, 25=21-9-0, 26=21-9-0, 27=21-9-0, 28=21-9-0, 29=21-9-0, 30=21-9-0, 32=21-9-0, 33=21-9-0, 34=21-9-0, 35=21-9-0, 36=21-9-0 Max Uplift 20=-276 (LC 3), 21=-292 (LC 3)

19=21-9-0, 20=21-9-0, 21=21-9-0,

19=153 (LC 3), 20=69 (LC 1), Max Grav 21=45 (LC 1), 22=243 (LC 3), 23=141 (LC 1), 24=151 (LC 3) 25=147 (LC 1), 26=147 (LC 3), 27=146 (LC 3), 28=150 (LC 1), 29=633 (LC 1), 30=150 (LC 1), 32=147 (LC 3), 33=146 (LC 1), 34=157 (LC 3), 35=126 (LC 1),

36=86 (LC 3)

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

Tension

19-20=0/33

1-36=-67/0, 18-19=0/69, 1-2=-37/0, TOP CHORD 2-3=-37/0, 3-4=-37/0, 4-5=-37/0, 5-6=-37/0. 6-7=-37/0, 7-8=-37/0, 8-9=-37/0, 9-10=-37/0,

10-11=-37/0, 11-12=-37/0, 12-14=-37/0, 14-15=-33/0, 15-16=-33/0, 16-17=-33/0,

17-18=0/6 BOT CHORD

35-36=0/37, 34-35=0/37, 33-34=0/37, 32-33=0/37, 30-32=0/37, 29-30=0/37, 28-29=0/37, 27-28=0/37, 26-27=0/37, 25-26=0/37, 24-25=0/37, 23-24=0/37, 22-23=0/33, 21-22=0/33, 20-21=0/33,

**WEBS** 

2-35=-122/0, 3-34=-138/0, 4-33=-133/0, 5-32=-133/0, 6-30=-136/0, 7-29=-619/0, 8-28=-136/0, 9-27=-133/0, 10-26=-134/0, 11-25=-133/0, 12-24=-138/0, 13-23=-127/0, 14-22=-228/0, 15-21=-35/300, 16-20=-46/308, 17-19=-231/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely 4) braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc. 5)
- 6) N/A
- 7) 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- 10) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 7-11-4 from the left end to connect truss (es) to back face of top chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 739 lb up at 19-4-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft)



Vert: 19-36=-10, 1-18=-100

Vert: 7=-490 (B), 38=162 (B)

Concentrated Loads (lb)

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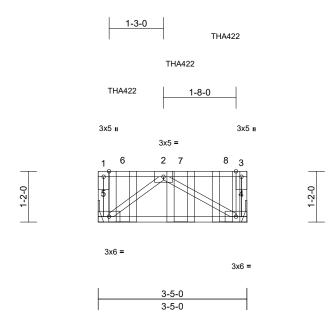
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	DRB GROUP - 82 FaNC	
23120148	F06	Floor Girder	1	1	Job Reference (optional)	162998122

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Jan 11 14:53:46 ID:nu5CKHBZ70LJhczN93UPVhzwQSj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:26.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.02	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 21 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS** 

#### **BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-5-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical Max Grav 4=522 (LC 1), 5=483 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-5=-146/0, 3-4=-260/0, 1-2=0/0, 2-3=0/0

BOT CHORD 4-5=0/424

**WEBS** 2-4=-490/0, 2-5=-532/0

#### NOTES

- 1) Refer to girder(s) for truss to truss connections.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 1-4-0 oc max. starting at 0-6-12 from the left end to 2-11-4 to connect truss(es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 4-5=-10, 1-3=-100

Concentrated Loads (lb)

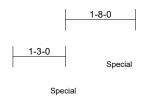
Vert: 6=-221 (F), 7=-210 (F), 8=-225 (F)

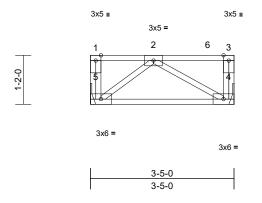


January 12,2024

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23120148	F06A	Floor Girder	1	1	Job Reference (optional)	162998123

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:46 ID:nu5CKHBZ70LJhczN93UPVhzwQSj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:27.4

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.92	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.02	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 21 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS** 

## **BRACING**

TOP CHORD Structural wood sheathing directly applied, except end verticals.

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

REACTIONS (size) 4= Mechanical, 5= Mechanical

Max Uplift 4=-505 (LC 3), 5=-214 (LC 3) Max Grav 4=9 (LC 1), 5=80 (LC 1)

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

Tension

TOP CHORD 1-5=-92/0, 3-4=0/275, 1-2=0/0, 2-3=0/0

**BOT CHORD** 4-5=-424/10

2-4=-11/491, 2-5=-12/532 **WEBS** 

#### **NOTES**

- Unbalanced floor live loads have been considered for 1) this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 214 lb uplift at joint 5 and 505 lb uplift at joint 4.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 538 lb up at 1-5-8, and 530 lb up at 2-9-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 4-5=-10, 1-3=-100 Concentrated Loads (lb)

Vert: 2=130 (B), 6=129 (B)

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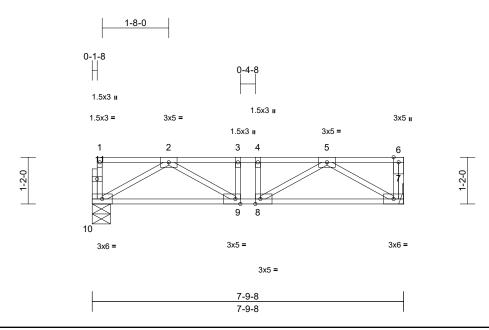
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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	Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
١	23120148	F07	Floor	3	1	Job Reference (optional)	98124

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Jan 11 14:53:46 ID: JiXq7xBxMjDS3SOBbLzAyUzwQSk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff Page: 1



Scale = 1:28.8

Plate Offsets (X, Y):	[8:0-1-8,Edge],	[9:0-1-8,Edge]
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		i –		1	-						i	
Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	-0.01	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.17	Vert(CT)	-0.02	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH		, ,					Weight: 42 lb	FT = 20%F, 11%E

#### LUMBER

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

#### 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 7= Mechanical, 10=0-5-8 (size) Max Grav 7=277 (LC 1), 10=272 (LC 1)

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

Tension 1-10=-46/0, 6-7=-48/0, 1-2=-3/0, 2-3=-512/0,

TOP CHORD 3-4=-512/0, 4-5=-512/0, 5-6=0/0

BOT CHORD 9-10=0/376, 8-9=0/512, 7-8=0/377 WEBS

5-7=-436/0, 2-10=-431/0, 5-8=0/182,

2-9=0/182, 3-9=-67/0, 4-8=-66/0

## NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Refer to girder(s) for truss to truss connections.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

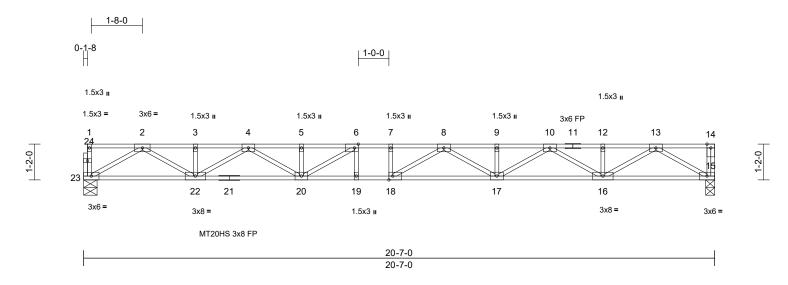


January 12,2024



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23120148	F08	Floor	4	1	Job Reference (optional)	

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:47 ID:KneXOB?bLcnpEubFadB7iqzwQRg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:37.6

Plate Offsets (X, Y	′): [6:0·	·1-8,Edge],	[18:0-1-8,Edg	e]
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Landina	(maf)	Cussian	1.1.0	csı		DEFL		(100)	I/defl	1 /4	PLATES	GRIP
Loading	(psf)	Spacing	1-4-0	CSI		DELL	ın	(loc)	ı/deii	L/a	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.37	17-18	>660	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.51	17-18	>476	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.07	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 106 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) \*Except\* 21-15:2x4 SP BOT CHORD

No 1(flat)

WFBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat)

**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) 15=0-3-8, 23=0-5-4

Max Grav 15=746 (LC 1), 23=741 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** 

Tension TOP CHORD 1-23=-48/0, 14-15=-49/0, 1-2=-3/0,

2-3=-2096/0, 3-4=-2096/0, 4-5=-3276/0, 5-6=-3276/0, 6-7=-3601/0, 7-8=-3601/0,

8-9=-3286/0, 9-10=-3286/0, 10-12=-2093/0, 12-13=-2093/0, 13-14=0/0

BOT CHORD 22-23=0/1178, 20-22=0/2786, 19-20=0/3601,

18-19=0/3601, 17-18=0/3560, 16-17=0/2790,

15-16=0/1178

WEBS 13-15=-1363/0, 2-23=-1359/0, 13-16=0/1067,

2-22=0/1072, 12-16=-107/0, 3-22=-112/0, 10-16=-814/0, 4-22=-806/0, 10-17=0/579, 4-20=0/572, 9-17=-105/0, 5-20=-141/24, 8-17=-331/0, 6-20=-575/28, 8-18=-209/330,

6-19=-56/117, 7-18=-103/33

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x5 MT20 unless otherwise indicated.
- 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.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 12,2024

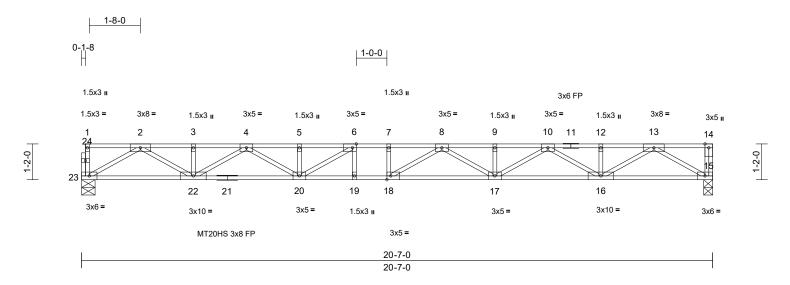
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 bucking 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	DRB GROUP - 82 FaNC	
23120148	F09	Floor	9	1	Job Reference (optional)	162998126

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:47 ID:ZWhxHG6EDNwXpHn c0sEajzwQRX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:37.6

Landina	( <b>f</b> )	0	4.7.0	001		DEEL		(1)	1/-161	1.7-1	DI ATEO	ODID
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	ın	(loc)	I/defl	L/a	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.44	17-18	>550	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.93	Vert(CT)	-0.61	17-18	>397	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.09	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 106 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) \*Except\* 21-15:2x4 SP BOT CHORD

No.1(flat)

WFBS 2x4 SP No.3(flat)

OTHERS 2x4 SP No.3(flat)

# **BRACING**

TOP CHORD Structural wood sheathing directly applied or

5-3-2 oc purlins, except end verticals.

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

bracing, Except:

2-2-0 oc bracing: 20-22. REACTIONS

15=0-3-8, 23=0-5-4 (size) Max Grav 15=894 (LC 1), 23=889 (LC 1)

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

TOP CHORD

1-23=-57/0, 14-15=-59/0, 1-2=-3/0,

2-3=-2513/0, 3-4=-2513/0, 4-5=-3929/0, 5-6=-3929/0, 6-7=-4318/0, 7-8=-4318/0,

8-9=-3940/0, 9-10=-3940/0, 10-12=-2510/0, 12-13=-2510/0, 13-14=0/0

**BOT CHORD** 22-23=0/1412, 20-22=0/3342, 19-20=0/4318,

18-19=0/4318, 17-18=0/4270, 16-17=0/3346,

15-16=0/1413

WEBS 13-15=-1635/0, 2-23=-1630/0, 13-16=0/1280, 2-22=0/1285, 12-16=-128/0, 3-22=-134/0.

10-16=-976/0. 4-22=-967/0. 10-17=0/694. 4-20=0/686, 9-17=-126/0, 5-20=-169/29, 8-17=-397/0, 6-20=-690/33, 8-18=-250/395,

6-19=-67/140, 7-18=-123/40

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated. 4) 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.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 12,2024

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

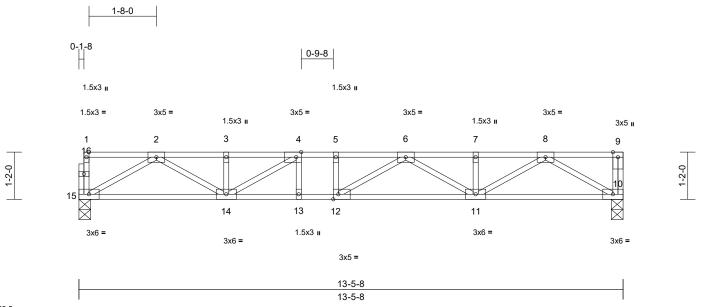
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent bucking 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	DRB GROUP - 82 FaNC	
23120148	F10	Floor	3	1	Job Reference (optional)	162998127

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Jan 11 14:53:47  $ID: vUUpL\_AN2vYqv2fyPZRPHmzwQRS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$  Page: 1



Scale = 1:28.5

Plate Offsets (X, Y):	[4:0-1-8,Edge],	[12:0-1-8,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.12	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.18	11-12	>905	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	10	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 70 lb	FT = 20%F, 11%E

#### LUMBER

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

# 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) 10=0-3-8, 15=0-3-8

Max Grav 10=726 (LC 1), 15=720 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-15=-71/0, 9-10=-73/0, 1-2=-4/0,

2-3=-1817/0, 3-4=-1817/0, 4-5=-2265/0, 5-6=-2265/0, 6-7=-1826/0, 7-8=-1826/0,

8-9=0/0

**BOT CHORD** 14-15=0/1093, 13-14=0/2265, 12-13=0/2265,

11-12=0/2217, 10-11=0/1099

8-10=-1272/0, 2-15=-1260/0, 8-11=0/848. WEBS 2-14=0/844, 7-11=-156/0, 3-14=-190/11,

6-11=-457/0, 4-14=-619/0, 6-12=-156/296,

4-13=-42/112, 5-12=-91/13

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

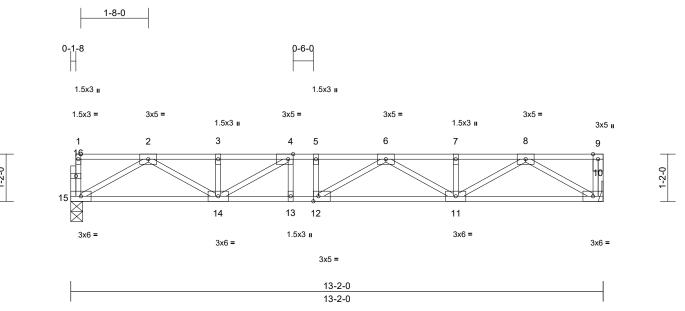


January 12,2024



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23120148	F11	Floor	5	1	Job Reference (optional)	162998128

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Jan 11 14:53:48 ID:oFkKALDu582FOgzjePWLRczwQRO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:28.5

Plate Offsets (X, Y):	[4:0-1-8,Edge],	[12:0-1-8,Edge]
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		i –		1							i	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.11	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.16	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 69 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD	2x4 SP No.2(flat
BOT CHORD	2x4 SP No.2(flat
WEBS	2x4 SP No.3(flat
OTHERS	2x4 SP No.3(flat

#### **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 10= Mechanical, 15=0-3-8 (size) Max Grav 10=710 (LC 1), 15=704 (LC 1)

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

Tension

TOP CHORD 1-15=-71/0, 9-10=-73/0, 1-2=-4/0,

2-3=-1766/0, 3-4=-1766/0, 4-5=-2170/0, 5-6=-2170/0, 6-7=-1771/0, 7-8=-1771/0,

8-9=0/0

**BOT CHORD** 14-15=0/1066, 13-14=0/2170, 12-13=0/2170,

11-12=0/2137, 10-11=0/1071

8-10=-1239/0, 2-15=-1228/0, 8-11=0/817. WEBS 2-14=0/816, 7-11=-158/0, 3-14=-186/0,

6-11=-427/0, 4-14=-555/0, 6-12=-165/263,

4-13=-51/103, 5-12=-67/18

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

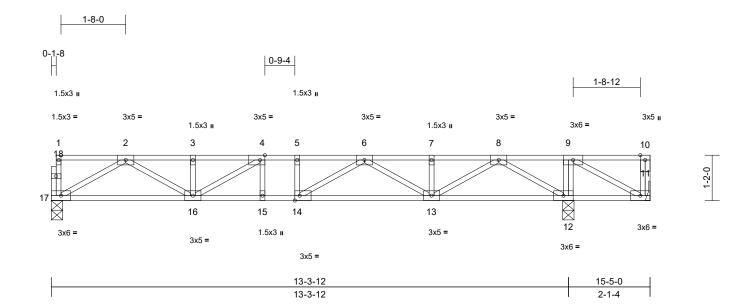


January 12,2024



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23120148	F13	Floor	2	1	Job Reference (optional)	162998129

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:48 ID:JiXq7xBxMjDS3SOBbLzAyUzwQSk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:29.7

Plate Offsets (X, Y)	[4:0-1-8,Edge],	[14:0-1-8,Edge]
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Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	-0.05	15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.07	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 82 lb	FT = 20%F, 11%E

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 11= Mechanical, 12=0-3-8,

17=0-3-8

Max Uplift 11=-471 (LC 3)

11=-67 (LC 4), 12=1124 (LC 1), Max Grav

17=406 (LC 3)

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

Tension TOP CHORD

1-17=-48/0, 10-11=-55/0, 1-2=-3/0,

2-3=-968/0, 3-4=-968/0, 4-5=-1098/0, 5-6=-1098/0, 6-7=-531/0, 7-8=-531/0,

8-9=0/901, 9-10=0/0

**BOT CHORD** 16-17=0/602, 15-16=0/1098, 14-15=0/1098,

13-14=0/914, 12-13=-88/0, 11-12=-901/0 9-12=-625/0, 8-12=-958/0, 2-17=-693/0,

WEBS 8-13=0/712, 2-16=0/427, 7-13=-116/0,

3-16=-135/0, 6-13=-447/0, 4-16=-247/18, 6-14=0/288, 4-15=-51/38, 5-14=-88/0,

9-11=0/1019

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 471 lb uplift at joint 11.

- 5) 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



Page: 1

January 12,2024

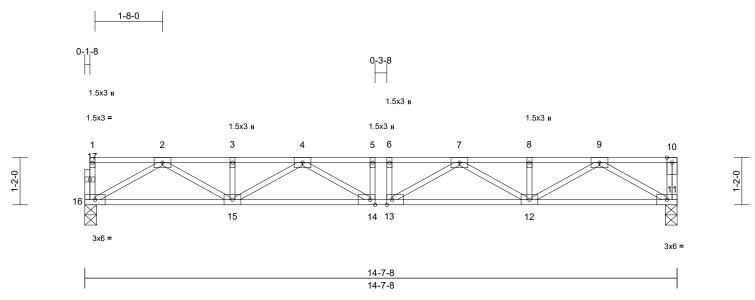
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/TPII 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	DRB GROUP - 82 FaNC	
23120148	F14	Floor	2	1	Job Reference (optional)	162998130

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Jan 11 14:53:48 ID: 10M0msyWzackauYF9? bPtGzwQQS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff Page: 1



Scale = 1:28.4

Plate Offsets (	X, Y	):	[13:0-1-8,Edge], [14:0-1-8,Edge]
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Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	-0.10	14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.14	14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 77 lb	FT = 20%F, 11%E

#### LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

#### **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 11=0-3-8, 16=0-3-8 (size)

Max Grav 11=527 (LC 1), 16=523 (LC 1)

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

Tension

TOP CHORD 1-16=-47/0, 10-11=-49/0, 1-2=-3/0, 2-3=-1360/0, 3-4=-1360/0, 4-5=-1823/0,

5-6=-1823/0, 6-7=-1823/0, 7-8=-1360/0,

8-9=-1360/0, 9-10=0/0

**BOT CHORD** 15-16=0/803, 14-15=0/1692, 13-14=0/1823,

12-13=0/1692, 11-12=0/805 9-11=-931/0, 2-16=-926/0, 9-12=0/648,

2-15=0/650, 8-12=-108/0, 3-15=-109/0, 7-12=-388/0, 4-15=-387/0, 7-13=-48/271,

4-14=-48/271, 5-14=-83/0, 6-13=-83/0

#### NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 12,2024



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23120148	F15	Floor	8	1	Job Reference (optional)	162998131

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Jan 11 14:53:48 ID:Ol9vpa?fo6E1hfRCyZBaaKzwQQN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

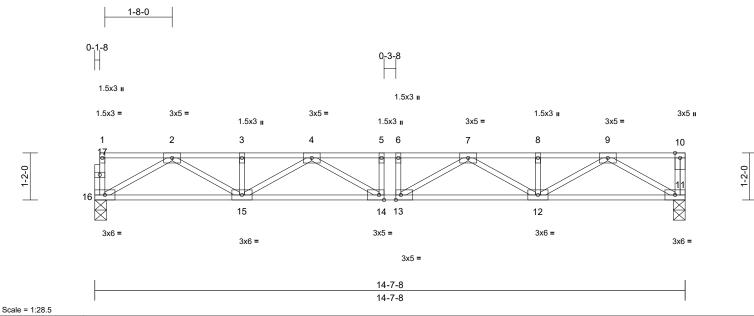


Plate Offsets (X, Y): [13:0-1-8,Edge], [14:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	-0.15	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.21	14	>823	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.04	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 77 lb	FT = 20%F, 11%E

#### LUMBER

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

#### **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) 11=0-3-8, 16=0-3-8

Max Grav 11=791 (LC 1), 16=784 (LC 1)

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

Tension

TOP CHORD 1-16=-71/0, 10-11=-73/0, 1-2=-4/0,

2-3=-2040/0, 3-4=-2040/0, 4-5=-2734/0, 5-6=-2734/0, 6-7=-2734/0, 7-8=-2040/0,

8-9=-2040/0, 9-10=0/0

**BOT CHORD** 15-16=0/1205, 14-15=0/2538, 13-14=0/2734,

12-13=0/2538, 11-12=0/1207

WEBS 9-11=-1396/0, 2-16=-1389/0, 9-12=0/972,

2-15=0/975, 8-12=-163/0, 3-15=-164/0, 7-12=-582/0, 4-15=-581/0, 7-13=-72/406,

4-14=-72/406, 5-14=-125/0, 6-13=-125/0

#### NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



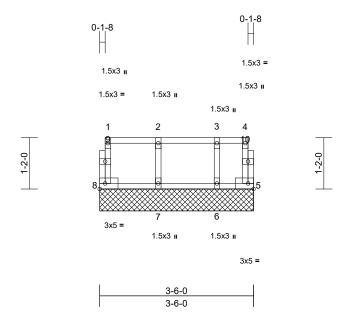
January 12,2024



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23120148	FW03	Floor Supported Gable	1	1	Job Reference (optional)	162998132

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:48 ID:K8HfEG1vKjVlwzbb3\_D2flzwQQL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.2

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 18 lb	FT = 20%F, 11%E

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or

3-6-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5=3-6-0, 6=3-6-0, 7=3-6-0, 8=3-6-0 Max Grav

5=18 (LC 1), 6=75 (LC 1), 7=102

(LC 1), 8=34 (LC 1)

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

Tension

TOP CHORD 1-8=-32/0, 4-5=-14/0, 1-2=-4/0, 2-3=-4/0,

3-4=-4/0

**BOT CHORD** 7-8=0/4, 6-7=0/4, 5-6=0/4

**WEBS** 2-7=-92/0, 3-6=-72/0

#### **NOTES**

- All plates are 1.5x3 MT20 unless otherwise indicated. 1)
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

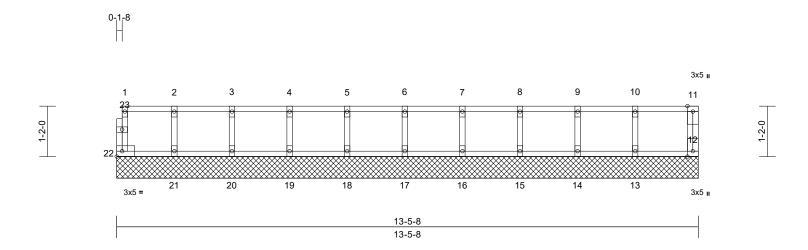


January 12,2024

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23120148	FW13	Floor Supported Gable	1	1	I6299813 Job Reference (optional)	33

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:49 ID:ljyosH3ocetKnQJAk6mlHNzwQQI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 57 lb	FT = 20%F, 11%E

#### LUMBER

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

#### 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)

12=13-5-8, 13=13-5-8, 14=13-5-8, 15=13-5-8, 16=13-5-8, 17=13-5-8, 18=13-5-8, 19=13-5-8, 20=13-5-8, 21=13-5-8, 22=13-5-8

12=70 (LC 1), 13=151 (LC 1), Max Grav 14=146 (LC 1), 15=147 (LC 1), 16=147 (LC 1), 17=147 (LC 1), 18=147 (LC 1), 19=146 (LC 1), 20=148 (LC 1), 21=140 (LC 1),

22=58 (LC 1)

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

Tension

TOP CHORD 1-22=-52/0, 11-12=-64/0, 1-2=-12/0,

2-3=-12/0, 3-4=-12/0, 4-5=-12/0, 5-6=-12/0, 6-7=-12/0, 7-8=-12/0, 8-9=-12/0, 9-10=-12/0,

10-11=-12/0

**BOT CHORD** 21-22=0/12, 20-21=0/12, 19-20=0/12,

18-19=0/12, 17-18=0/12, 16-17=0/12, 15-16=0/12, 14-15=0/12, 13-14=0/12,

12-13=0/12

WEBS 2-21=-129/0. 3-20=-135/0. 4-19=-133/0.

5-18=-133/0, 6-17=-133/0, 7-16=-133/0,

8-15=-134/0, 9-14=-132/0, 10-13=-137/0

### NOTES

- All plates are 1.5x3 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).
- Gable studs spaced at 1-4-0 oc.

- 5) 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 12,2024

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

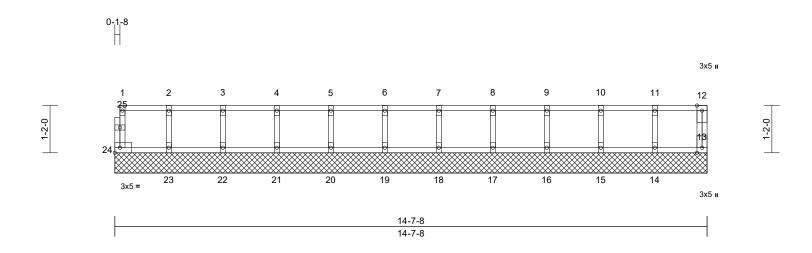
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and RCSB Building Component Safety Information, available from the Structural Building Component Safety Information available from the Structural Building Component Safety Information and Safety Inf and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road Edenton, NC 27932

	Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
١	23120148	FW14	Floor	1	1	Job Reference (optional)	998134

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:49 ID:h64YHz528F711kTYsXpDMozwQQG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:28.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 62 lb	FT = 20%F, 11%E

#### LUMBER

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

#### 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)

13=14-7-8, 14=14-7-8, 15=14-7-8, 16=14-7-8, 17=14-7-8, 18=14-7-8, 19=14-7-8, 20=14-7-8, 21=14-7-8, 22=14-7-8, 23=14-7-8, 24=14-7-8

13=60 (LC 1), 14=140 (LC 1), Max Grav 15=148 (LC 1), 16=146 (LC 1),

17=147 (LC 1), 18=147 (LC 1), 19=147 (LC 1), 20=147 (LC 1), 21=146 (LC 1), 22=148 (LC 1), 23=143 (LC 1), 24=56 (LC 1)

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

Tension

TOP CHORD 1-24=-51/0, 12-13=-54/0, 1-2=-10/0,

2-3=-10/0, 3-4=-10/0, 4-5=-10/0, 5-6=-10/0, 6-7=-10/0, 7-8=-10/0, 8-9=-10/0, 9-10=-10/0,

10-11=-10/0, 11-12=-10/0

**BOT CHORD** 23-24=0/10, 22-23=0/10, 21-22=0/10,

20-21=0/10, 19-20=0/10, 18-19=0/10, 17-18=0/10, 16-17=0/10, 15-16=0/10,

14-15=0/10, 13-14=0/10

WEBS 2-23=-130/0, 3-22=-134/0, 4-21=-133/0,

5-20=-133/0. 6-19=-133/0. 7-18=-133/0. 8-17=-133/0, 9-16=-133/0, 10-15=-135/0,

11-14=-128/0

#### **NOTES**

- 1) All plates are 1.5x3 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).
- Gable studs spaced at 1-4-0 oc.

- 5) 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 12,2024

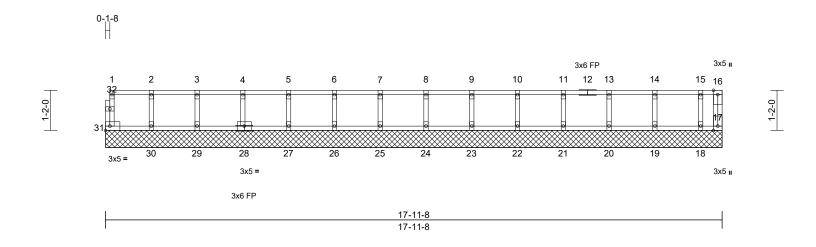
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/TPII 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	DRB GROUP - 82 FaNC	
23120148	FW17	Floor Supported Gable	1	1	ا Job Reference (optional)	62998135

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:49 ID:5gmhw?7wRAVcuBC7XfMw RzwQQD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:33.6

Loading	(psf)	Spacing	1-4-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	17	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 76 lb	FT = 20%F, 11%E

LUMBER

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

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)

17=17-11-8, 18=17-11-8, 19=17-11-8, 20=17-11-8, 21=17-11-8, 22=17-11-8, 23=17-11-8, 24=17-11-8, 25=17-11-8, 26=17-11-8, 27=17-11-8, 28=17-11-8, 29=17-11-8, 30=17-11-8, 31=17-11-8

Max Grav 17=7 (LC 1), 18=75 (LC 1), 19=102

(LC 1), 20=97 (LC 1), 21=98 (LC 1), 22=98 (LC 1), 23=98 (LC 1), 24=98 (LC 1), 25=98 (LC 1), 26=98 (LC 1), 27=98 (LC 1), 28=98 (LC 1), 29=98 (LC 1), 30=97 (LC 1), 31=36 (LC 1)

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

Tension

1-31=-33/0, 16-17=-4/0, 1-2=-6/0, 2-3=-6/0, TOP CHORD 3-4=-6/0, 4-5=-2/0, 5-6=-2/0, 6-7=-2/0, 7-8=-2/0, 8-9=-2/0, 9-10=-2/0, 10-11=-2/0,

11-13=-2/0, 13-14=-2/0, 14-15=-2/0,

15-16=-2/0 BOT CHORD

30-31=0/6, 29-30=0/6, 27-29=0/6, 26-27=0/2, 25-26=0/2, 24-25=0/2, 23-24=0/2, 22-23=0/2,

21-22=0/2, 20-21=0/2, 19-20=0/2, 18-19=0/2,

17-18=0/2

**WEBS** 2-30=-87/0, 3-29=-89/0, 4-28=-89/0, 5-27=-89/0, 6-26=-89/0, 7-25=-89/0,

8-24=-89/0, 9-23=-89/0, 10-22=-89/0, 11-21=-89/0, 13-20=-88/0, 14-19=-92/0,

15-18=-71/0

#### NOTES

- All plates are 1.5x3 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).
- Gable studs spaced at 1-4-0 oc.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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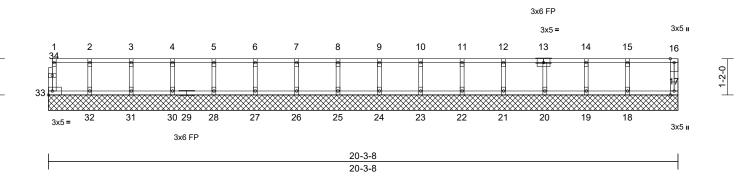


Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23120148	FW20	Floor Supported Gable	1	1	Job Reference (optional)	62998136

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:49 ID:a8rUh9LDCim32yabbRh9iEzwQPx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:37.1

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	17	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 84 lb	FT = 20%F, 11%E

LUMBER

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

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.

REACTIONS (size)

17=20-3-8, 18=20-3-8, 19=20-3-8, 20=20-3-8, 21=20-3-8, 22=20-3-8, 23=20-3-8, 24=20-3-8, 25=20-3-8, 26=20-3-8, 27=20-3-8, 28=20-3-8, 30=20-3-8, 31=20-3-8, 32=20-3-8,

33=20-3-8

Max Grav 17=61 (LC 1), 18=132 (LC 1), 19=116 (LC 1), 20=118 (LC 1), 21=115 (LC 1), 22=118 (LC 1), 23=117 (LC 1), 24=117 (LC 1), 25=117 (LC 1), 26=117 (LC 1), 27=117 (LC 1), 28=117 (LC 1), 30=117 (LC 1), 31=120 (LC 1),

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

Tension

TOP CHORD 1-33=-44/0, 16-17=-57/0, 1-2=-13/0,

2-3=-13/0, 3-4=-13/0, 4-5=-13/0, 5-6=-13/0, 6-7=-13/0, 7-8=-13/0, 8-9=-13/0, 9-10=-13/0, 10-11=-13/0, 11-12=-13/0, 12-14=-13/0,

32=107 (LC 1), 33=51 (LC 1)

14-15=-9/0, 15-16=-9/0

BOT CHORD 32-33=0/13, 31-32=0/13, 30-31=0/13,

28-30=0/13, 27-28=0/13, 26-27=0/13, 25-26=0/13, 24-25=0/13, 23-24=0/13, 22-23=0/13 21-22=0/13 20-21=0/13 19-20=0/9, 18-19=0/9, 17-18=0/9

**WEBS** 

2-32=-101/0, 3-31=-108/0, 4-30=-106/0, 5-28=-107/0, 6-27=-107/0, 7-26=-107/0, 8-25=-107/0, 9-24=-107/0, 10-23=-106/0, 11-22=-107/0, 12-21=-104/0, 13-20=-107/0, 14-19=-106/0, 15-18=-118/0

#### NOTES

- All plates are 1.5x3 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).
- Gable studs spaced at 1-4-0 oc.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



January 12,2024

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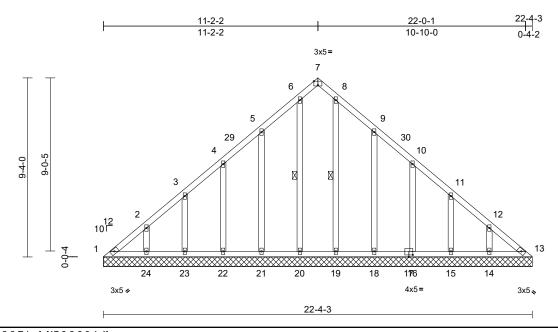
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	Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
١	23120148	V1	Valley	1	1	Job Reference (optional)	62998137

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:50 ID:kKSTvkKlb8M5frbJdhNATiyHzjk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:60.1

Plate Offsets (X, Y): [7:0-	-2-8,Edge], [17:0-2-8,0-1-4]
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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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.01	13	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 145 lb	FT = 20%

LUMBER

2x4 SP No 2 TOP CHORD 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. WEBS

1 Row at midpt 6-20, 8-19

REACTIONS (size)

1=22-4-3, 13=22-4-3, 14=22-4-3, 15=22-4-3, 16=22-4-3, 18=22-4-3,

19=22-4-3, 20=22-4-3, 21=22-4-3, 22=22-4-3, 23=22-4-3, 24=22-4-3

Max Horiz 1=208 (LC 11)

Max Uplift

1=-47 (LC 12), 13=-8 (LC 13), 14=-39 (LC 15), 15=-84 (LC 15), 16=-68 (LC 15), 18=-97 (LC 15),

20=-2 (LC 11), 21=-92 (LC 14), 22=-69 (LC 14), 23=-81 (LC 14),

24=-49 (LC 14)

1=143 (LC 14), 13=119 (LC 26), 14=192 (LC 21), 15=162 (LC 24), 16=170 (LC 21), 18=247 (LC 21),

19=209 (LC 21), 20=209 (LC 20), 21=247 (LC 20), 22=170 (LC 20),

23=159 (LC 23), 24=200 (LC 23)

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

1-2=-271/164, 2-3=-210/134, 3-4=-130/107, 4-5=-94/79, 5-6=-87/109, 6-7=-66/82, 7-8=-66/78, 8-9=-87/78, 9-10=-63/47, 10-11=-101/64, 11-12=-182/92,

12-13=-240/131

BOT CHORD 1-24=-109/222, 23-24=-109/222,

22-23=-109/222, 21-22=-109/222, 20-21=-109/222, 19-20=-109/222, 18-19=-109/222, 16-18=-109/222,

15-16=-109/222, 14-15=-109/222,

13-14=-109/222

**WEBS** 6-20=-172/25, 8-19=-172/0, 5-21=-209/115, 4-22=-130/93, 3-23=-127/102, 2-24=-136/79, 9-18=-209/120, 10-16=-130/92

11-15=-129/104, 12-14=-132/75

#### NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 8-2-6, Exterior(2R) 8-2-6 to 14-1-10, Interior (1) 14-1-10 to 19-4-8, Exterior(2E) 19-4-8 to 22-4-8 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
- 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.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 1, 8 lb uplift at joint 13, 2 lb uplift at joint 20, 92 lb uplift at joint 21, 69 lb uplift at joint 22, 81 lb uplift at joint 23, 49 lb uplift at joint 24, 97 lb uplift at joint 18, 68 lb uplift at joint 16, 84 lb uplift at joint 15 and 39 lb uplift at joint
- 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



January 12,2024

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

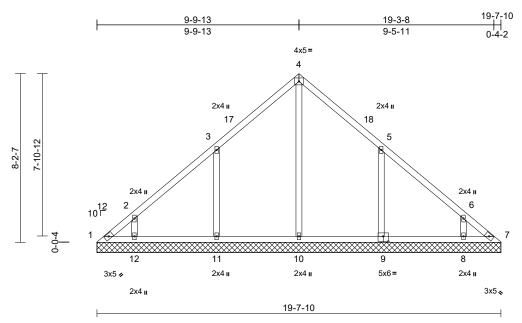
Design valid for use only with MiTek® connectors. This design is based only upon parameters.

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	DRB GROUP - 82 FaNC	
23120148	V2	Valley	1	1	Job Reference (optional)	162998138

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:50 ID:kKSTvkKlb8M5frbJdhNATiyHzjk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:56 Plate Offsets (X, Y): [9:0-3-0,0-3-0]

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	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 93 lb	FT = 20%

#### LUMBER

2x4 SP No 2 TOP CHORD 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.

Max Grav

REACTIONS (size) 1=19-7-10, 7=19-7-10, 8=19-7-10, 9=19-7-10, 10=19-7-10,

11=19-7-10, 12=19-7-10

Max Horiz 1=188 (LC 11)

Max Uplift 1=-64 (LC 12), 7=-19 (LC 13),

8=-94 (LC 15), 9=-179 (LC 15) 11=-175 (LC 14), 12=-99 (LC 14)

1=111 (LC 11), 7=84 (LC 26),

8=317 (LC 24), 9=487 (LC 6),

10=382 (LC 26), 11=478 (LC 5),

12=330 (LC 23)

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

Tension

TOP CHORD

1-2=-213/156, 2-3=-184/119, 3-4=-207/168, 4-5=-209/143. 5-6=-135/71, 6-7=-178/100 1-12=-74/142, 11-12=-62/142,

BOT CHORD 10-11=-62/142, 8-10=-67/147, 7-8=-67/147

WFBS 4-10=-183/8, 3-11=-378/222, 2-12=-223/163,

5-9=-385/226, 6-8=-221/160

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 6-10-2, Exterior(2R) 6-10-2 to 12-10-2, Interior (1) 12-10-2 to 16-7-15, Exterior(2E) 16-7-15 to 19-7-15 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.
- 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. 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, with BCDL = 10.0psf.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 1, 19 lb uplift at joint 7, 175 lb uplift at joint 11, 99 lb uplift at joint 12, 179 lb uplift at joint 9 and 94 lb uplift at joint
- 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



Page: 1

January 12,2024

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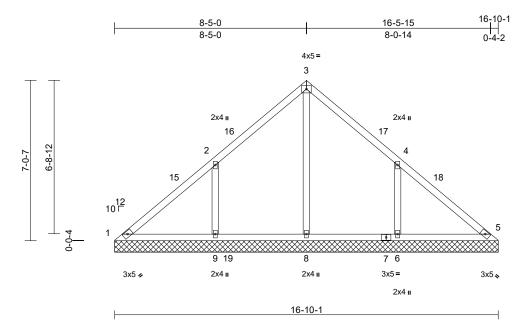
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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		
23120148	V3	Valley	1	1	Job Reference (optional)	52998139

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:50 ID:kKSTvkKlb8M5frbJdhNATiyHzjk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scal	le =	1:50	.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	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 75 lb	FT = 20%

#### LUMBER

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

# **BRACING**

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=16-10-1, 5=16-10-1, 6=16-10-1, 8=16-10-1, 9=16-10-1, 14=16-10-1

Max Horiz 1=160 (LC 11)

1=-58 (LC 10), 6=-183 (LC 15), Max Uplift

9=-188 (LC 14)

1=83 (LC 33), 5=1 (LC 24), 6=511 Max Grav

(LC 6), 8=654 (LC 23), 9=511 (LC

5), 14=1 (LC 24) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-2=-105/371, 2-3=-25/320, 3-4=-2/299, TOP CHORD

4-5=-139/291

1-9=-181/76, 8-9=-181/74, 6-8=-181/74,

5-6=-181/74

3-8=-471/0. 2-9=-392/221. 4-6=-392/219

#### WEBS NOTES

**BOT CHORD** 

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 5-5-5, Exterior(2R) 5-5-5 to 11-5-5, Interior (1) 11-5-5 to 13-10-6, Exterior(2E) 13-10-6 to 16-10-6 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 5) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 1, 188 lb uplift at joint 9 and 183 lb uplift at joint 6.
- 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



January 12,2024

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

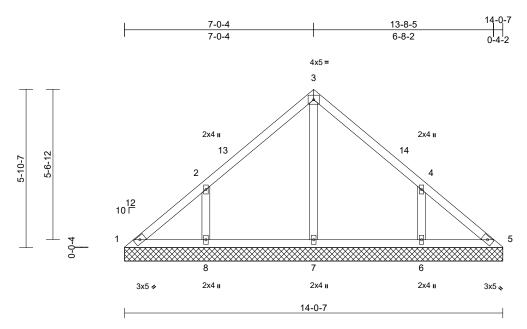
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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23120148	V4	Valley	1	1	Job Reference (optional)	62998140

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Jan 11 14:53:51 ID:CX0r74LwMRUyH?AVBOuP0vyHzjj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:42.7

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	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 60 lb	FT = 20%

#### LUMBER

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

# **BRACING**

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=14-0-7, 5=14-0-7, 6=14-0-7,

7=14-0-7, 8=14-0-7

Max Horiz 1=-133 (LC 10)

1=-25 (LC 10), 6=-151 (LC 15), Max Uplift

8=-154 (LC 14)

1=117 (LC 24), 5=93 (LC 23), Max Grav 6=448 (LC 21), 7=294 (LC 21),

8=448 (LC 20)

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

Tension

TOP CHORD 1-2=-145/125, 2-3=-185/117, 3-4=-185/113,

4-5=-114/90

**BOT CHORD** 1-8=-54/117, 7-8=-54/95, 6-7=-54/95,

5-6=-54/95 WEBS

3-7=-213/0, 2-8=-374/194, 4-6=-374/193

#### NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-8, Interior (1) 3-0-8 to 4-0-8, Exterior(2R) 4-0-8 to 10-0-8, Interior (1) 10-0-8 to 11-0-8, Exterior(2E) 11-0-8 to 14-0-12 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 5) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1, 154 lb uplift at joint 8 and 151 lb uplift at joint 6.
- 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



Page: 1

January 12,2024

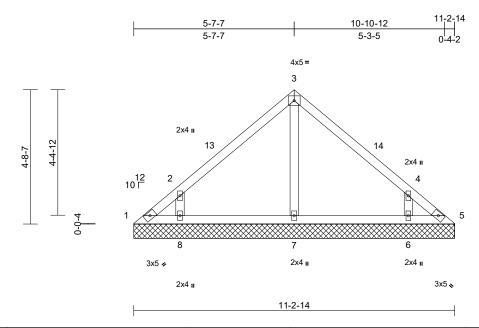
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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23120148	V5	Valley	1	1	Job Reference (optional)	162998141

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Jan 11 14:53:51 ID:CX0r74LwMRUyH?AVBOuP0vyHzjj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:40.4

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	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	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0	l									Weight: 46 lb	FT = 20%

#### LUMBER

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

#### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=11-2-14, 5=11-2-14, 6=11-2-14, 7=11-2-14, 8=11-2-14

Max Horiz 1=-106 (LC 10)

1=-41 (LC 12), 5=-14 (LC 13), Max Uplift

6=-134 (LC 15), 8=-138 (LC 14) 1=72 (LC 24), 5=54 (LC 30), 6=444 Max Grav (LC 21), 7=251 (LC 20), 8=444 (LC

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

TOP CHORD

1-2=-126/102, 2-3=-225/112, 3-4=-225/112,

4-5=-102/67

1-8=-34/74, 7-8=-25/74, 6-7=-25/74,

5-6=-37/74

WEBS 3-7=-162/0, 2-8=-443/249, 4-6=-443/249

#### NOTES

**BOT CHORD** 

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Exterior(2R) 3-0-5 to 8-3-2, Exterior(2E) 8-3-2 to 11-3-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 5) 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 1, 14 lb uplift at joint 5, 138 lb uplift at joint 8 and 134 lb uplift at joint 6.
- 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



Page: 1

January 12,2024

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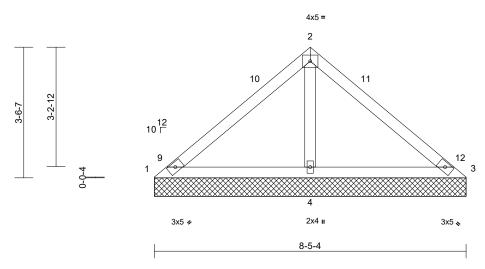
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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC
23120148	V6	Valley	1	1	Job Reference (optional)

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Jan 11 14:53:51 ID:CX0r74LwMRUyH?AVBOuP0vyHzjj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:31.2

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	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.37	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	4	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

8-5-4 oc purlins.

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

bracing.

REACTIONS (size) 1=8-5-4, 3=8-5-4, 4=8-5-4

Max Horiz 1=79 (LC 11)

Max Uplift 1=-44 (LC 21), 3=-44 (LC 20),

4=-101 (LC 14)

1=89 (LC 20), 3=89 (LC 21), 4=674 Max Grav

(LC 21)

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

Tension

TOP CHORD 1-2=-122/309, 2-3=-122/309

1-4=-209/183, 3-4=-209/183 BOT CHORD

WFBS 2-4=-500/251

#### NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Exterior(2R) 3-0-5 to 5-5-9, Exterior(2E) 5-5-9 to 8-5-9 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 1, 44 lb uplift at joint 3 and 101 lb uplift at joint 4.
- 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



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January 12,2024

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)

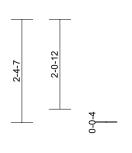


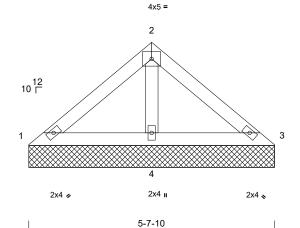
Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 82 FaNC	
23120148	V7	Valley	1	1	Job Reference (optional)	62998143

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2-9-13 5-3-8







Scale = 1:26.4

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 20 lb	FT = 20%

#### LUMBER

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

#### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

5-7-10 oc purlins.

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

bracing.

REACTIONS (size) 1=5-7-10, 3=5-7-10, 4=5-7-10

Max Horiz 1=-51 (LC 12)

Max Uplift 3=-5 (LC 15), 4=-45 (LC 14) Max Grav 1=96 (LC 20), 3=96 (LC 21), 4=366

(LC 20)

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

Tension

TOP CHORD 1-2=-86/139, 2-3=-86/139

**BOT CHORD** 1-4=-105/110, 3-4=-105/110

**WEBS** 2-4=-240/131

#### NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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 5) 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 5 lb uplift at joint 3 and 45 lb uplift at joint 4.
- 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



Page: 1

January 12,2024

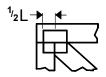
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

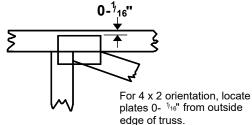


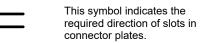
# **Symbols**

#### 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.





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

#### **PLATE SIZE**

4 x 4

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

#### LATERAL BRACING LOCATION



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:**

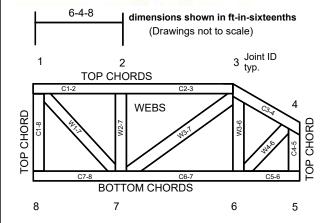
ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-22: Design Standard for Bracing.

BCSI:

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

# **Numbering System**



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.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- 8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- 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.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.